

The GE push button offering includes a complete line of control units and stations in both full size (30 mm) push buttons and in smaller size (22 mm) devices which are designed to be used in numerous types of industrial applications.

The CR104P full-size, heavy-duty oiltight and watertight line is complete with a variety of accessories and enclosures. These push buttons are especially adapted to heavy duty service in almost any application including those where water and oil coolant is present. All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those applications. Standard contact blocks are supplied with IP 10 back-of-hand protection to comply with UL 508 Section 39A requirements for door mounted devices.

GE's C-2000 22mm Global Push Buttons are designed to be applied in just about any application worldwide. C-2000 push buttons conform to all major world standards and are UL listed and CSA Certified. All devices except the double push button are rated for NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13, and IP66 when mounted in a suitable enclosure. C-2000 push buttons are manufactured in an ISO 9000 facility, assuring you that these products comply with quality standards that are recognized worldwide. Pre-engraved nameplates are available in French, Spanish, Italian, German, and English. The C-2000 push button line is globally available under the same product numbers, packaging, and markings anywhere in the world.

An entire listing of CR2943 and CR2941 standard-duty push button control stations is available, suitable for NEMA Type 1, 4, 4X, and 7 and 9 applications.



Reference Publications

See Publication Index, Section 17.

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons (CR104P)

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Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons (C-2000)

| | |
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Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Section 9

Push Buttons

600 Volts Maximum AC/DC

10 Amperes Continuous

Description

Standard and illuminated push buttons and selector switches are available as both key and conventional operators. The CR104P line also includes push-to-test and standard pilot lights, mushroom-head push buttons, joysticks, and push-pull and push-push operators.

Chrome-plated octagonal mounting rings project an attractive, high-quality appearance. Positive feel selector switches offer a quality touch in all illuminated and non-illuminated, maintained and spring return units.

Application

Especially adapted to machine-tool service or any application where oil or coolant is present. The convenient one-hole mounting makes this line suitable for general-purpose use in equipment of all kinds where panel mounting is possible. This line is ideal for applications where oil-tightness, water-tightness and long life are essential.

All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. The exception is CR104PTP units, which are suitable for Type 1, 12, and 13 applications only. Although not needed on all Type 4X applications, protective caps provide improved resistance to some corrosive materials. They are not required by UL.

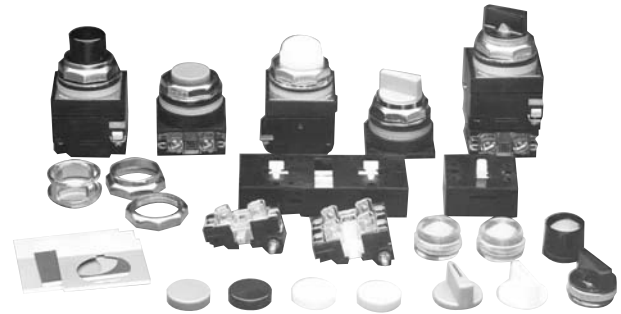
Features

- Ease of Assembly: One-screw contact block mounting. Octagonal ring provides ease in front panel mounting and enclosure applications.
- Greater Torque: Due to the eight-sided ring design, greater torque can be developed during assembly and installation to provide oil-tightness.
- Stocking Inventories Reduced: Forms may be furnished as complete units or as components, allowing building-block construction from a minimum of stock. The latter may provide faster service.
- Color Coded: Colored knobs and caps are available in kit forms for easy field conversion.

Product Number Selection Instructions

Selection of CR104P push buttons from the following pages is done in one of two ways: (1) one-step selection and pricing, in which items are selected from a single table and (2) step-by-step selection and pricing, in which you follow a sequence of steps to build the product number and list price for the product(s) you need. In either case, follow the instructions provided and order by complete product number.

Example: CR104PBG91B1 at **\$34.20, GO-10P1**. Product numbers and prices do not include nameplates, which must be ordered separately from pages 9-40 and 9-41.



30.5 mm Heavy-Duty Push Buttons



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Push Buttons

Lamp Selection

600 Volts Maximum AC/DC

10 Amperes Continuous

Lamp Selection

Incandescent, neon, and light emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons, and illuminated selector switches. Incandescent lamps have traditionally been the most frequently used, but it is wise to review the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption.

Benefits of LEDs include:

Resistance to Shock and Vibration—Since LEDs are solid state, they are completely impervious to the problems associated with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps used in frequent on-off applications.

Longer Life—The LEDs used with CR104P push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the neon lamps, and 2,000 hours (3 months) for the standard incandescent lamps.

Reduced Power Consumption—The LEDs used for the CR104P push buttons consume between 10% and 52% less power than the equivalent incandescent lamp. The table below shows the power consumption of each type.

Lower Operating Temperature— Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice. Incandescent bulbs are recommended for light-duty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

Lamp Comparison

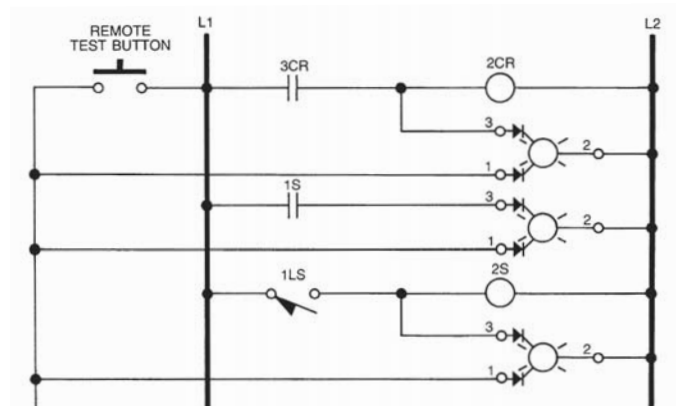
| Bulb Type | Lifespan (Hours) | Shock & Vibration Immunity | Operating Temperature | Power Consumption | Brightness |
|--------------|------------------|----------------------------|-----------------------|-------------------|------------|
| LED | 100,000 | High | Medium | Medium | Medium |
| Incandescent | 2,000 | Low | High | High | High |
| Neon | 20,000 | Medium | Low | Low | Low |

Potentiometers

| | |
|-------------------------|--|
| Resistance | 100 ohms ± 10% (list resistance by product number) |
| End Resistance | 4 ohms maximum |
| Dielectric Strength | 1000 Vac |
| 2 Watts Maximum at 70°C | |

Dual Input Illuminated Push Buttons (also called Remote Test Lights)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts becomes a remote test indicating light.



Typical wiring diagram for remote test of lights using dual input "Remote Test" Lights.

Power Consumption

| Type | Volts AC/DC | Incandescent CR104P | Watts | LED CR104P | Watts | Neon CR104P | Watts |
|------------------------------|-------------------------|---------------------|-------|------------|-------|-------------|-------|
| Full Voltage/ Transformer | 6 (20,000 hours) | XA16 | .95 | XA36* | 0.54 | — | — |
| | 12 (15,000 hours) | XA12 | 1.12 | XA32* | 0.72 | — | — |
| | 24 (2,500 hours) | XA14 | 1.12 | XA34* | 0.72 | — | — |
| | 120 (telephone slide) | XA52 | 3 | — | — | — | — |
| | 130 (miniature bayonet) | XA54 | 2.6 | XA38* | 1.2 | XA19 | 0.077 |
| Resistor | 240 | XA52 | 3 | — | — | — | — |
| | 120 | XA15 | 3 | — | — | — | — |
| Cluster Lights | 12 | XA22 | .96 | — | — | — | — |
| | 24 | XA24 | 1.12 | — | — | — | — |
| | 6 | XA26 | 1.2 | — | — | — | — |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Standard
 Non-Illuminated
 600 Volts Maximum AC/DC
 10 Amperes Continuous

Common Forms

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Flush Button - Momentary Operator

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|------------------------------------|---------------------------|-----------------------|
| None (Operator Only) | Black | CR104PBG00B1 | \$16.20 |
| None (Operator Only) | Red | CR104PBG00R1 | \$16.20 |
| None (Operator Only) | Green | CR104PBG00G1 | \$16.20 |
| None (Operator Only) | 1 Each: Red, Green, Yellow, Black | CR104PBG00U1 ¹ | \$16.20 |
| None (Operator Only) | 1 Each: Brown, Blue, Orange, White | CR104PBG00V1 ¹ | \$16.20 |
| None (Operator Only) | Other | CR104PBG00*1 ² | \$15.90 |
| 1NO-1NC | Black | CR104PBG91B1 | \$34.20 |
| 1NO-1NC | Red | CR104PBG91R1 | \$34.20 |
| 1NO-1NC | Green | CR104PBG91G1 | \$34.20 |
| 1NO-1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG91U1 ¹ | \$34.20 |
| 1NO-1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG91V1 ¹ | \$34.20 |
| 1NO-1NC | Other | CR104PBG91*1 ² | \$33.90 |
| 2NO-2NC | Black | CR104PBG92B1 | \$52.20 |
| 2NO-2NC | Red | CR104PBG92R1 | \$52.20 |
| 2NO-2NC | Green | CR104PBG92G1 | \$52.20 |
| 2NO-2NC | 1 Each: Red, Green, Yellow, Black | CR104PBG92U1 ¹ | \$52.20 |
| 2NO-2NC | 1 Each: Brown, Blue, Orange, White | CR104PBG92V1 ¹ | \$52.20 |
| 2NO-2NC | Other | CR104PBG92*1 ² | \$51.90 |
| 1NO | Black | CR104PBG10B1 | \$25.20 |
| 1NO | Red | CR104PBG10R1 | \$25.20 |
| 1NO | Green | CR104PBG10G1 | \$25.20 |
| 1NO | 1 Each: Red, Green, Yellow, Black | CR104PBG10U1 ¹ | \$25.20 |
| 1NO | 1 Each: Brown, Blue, Orange, White | CR104PBG10V1 ¹ | \$25.20 |
| 1NO | Other | CR104PBG10*1 ² | \$24.90 |
| 1NC | Black | CR104PBG01B1 | \$25.20 |
| 1NC | Red | CR104PBG01R1 | \$25.20 |
| 1NC | Green | CR104PBG01G1 | \$25.20 |
| 1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG01U1 ¹ | \$25.20 |
| 1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG01V1 ¹ | \$25.20 |
| 1NC | Other | CR104PBG01*1 ² | \$24.90 |



Flush Button

¹Supplied with 4 caps: Unassembled.

²To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

Cap Colors Available*

| Color | Insert in place of asterisk (*) | List Price Adder, GO-10P1 Push Buttons |
|--------|---------------------------------|---|
| Yellow | E | \$0.30 |
| Blue | L | \$0.30 |
| Orange | M | \$0.30 |
| Brown | N | \$0.30 |
| White | W | \$0.30 |
| No Cap | A | \$0.00 |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Standard
 Non-Illuminated
 600 Volts Maximum AC/DC
 10 Amperes Continuous

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Extended Button - Momentary Operator

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|------------------------------------|---------------------------|--------------------|
| None (Operator Only) | Black | CR104PBG00B2 | \$16.20 |
| None (Operator Only) | Red | CR104PBG00R2 | \$16.20 |
| None (Operator Only) | Green | CR104PBG00G2 | \$16.20 |
| None (Operator Only) | 1 Each: Red, Green, Yellow, Black | CR104PBG00U2 ¹ | \$16.20 |
| None (Operator Only) | 1 Each: Brown, Blue, Orange, White | CR104PBG00V2 ¹ | \$16.20 |
| None (Operator Only) | Other | CR104PBG00*2 ² | \$15.90 |
| 1NO-1NC | Black | CR104PBG91B2 | \$34.20 |
| 1NO-1NC | Red | CR104PBG91R2 | \$34.20 |
| 1NO-1NC | Green | CR104PBG91G2 | \$34.20 |
| 1NO-1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG91U2 ¹ | \$34.20 |
| 1NO-1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG91V2 ¹ | \$34.20 |
| 1NO-1NC | Other | CR104PBG91*2 ² | \$33.90 |
| 2NO-2NC | Black | CR104PBG92B2 | \$52.20 |
| 2NO-2NC | Red | CR104PBG92R2 | \$52.20 |
| 2NO-2NC | Green | CR104PBG92G2 | \$52.20 |
| 2NO-2NC | 1 Each: Red, Green, Yellow, Black | CR104PBG92U2 ¹ | \$52.20 |
| 2NO-2NC | 1 Each: Brown, Blue, Orange, White | CR104PBG92V2 ¹ | \$52.20 |
| 2NO-2NC | Other | CR104PBG92*2 ² | \$51.90 |
| 1NO | Black | CR104PBG10B2 | \$25.20 |
| 1NO | Red | CR104PBG10R2 | \$25.20 |
| 1NO | Green | CR104PBG10G2 | \$25.20 |
| 1NO | 1 Each: Red, Green, Yellow, Black | CR104PBG10U2 ¹ | \$25.20 |
| 1NO | 1 Each: Brown, Blue, Orange, White | CR104PBG10V2 ¹ | \$25.20 |
| 1NO | Other | CR104PBG10*2 ² | \$24.90 |
| 1NC | Black | CR104PBG01B2 | \$25.20 |
| 1NC | Red | CR104PBG01R2 | \$25.20 |
| 1NC | Green | CR104PBG01G2 | \$25.20 |
| 1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG01U2 ¹ | \$25.20 |
| 1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG01V2 ¹ | \$25.20 |
| 1NC | Other | CR104PBG01*2 ² | \$24.90 |



Extended Button

Recessed Button - Momentary Operator

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|------------------------------------|---------------------------|--------------------|
| None (Operator Only) | Black | CR104PBG00B3 | \$16.20 |
| None (Operator Only) | Red | CR104PBG00R3 | \$16.20 |
| None (Operator Only) | Green | CR104PBG00G3 | \$16.20 |
| None (Operator Only) | 1 Each: Red, Green, Yellow, Black | CR104PBG00U3 ¹ | \$16.20 |
| None (Operator Only) | 1 Each: Brown, Blue, Orange, White | CR104PBG00V3 ¹ | \$16.20 |
| None (Operator Only) | Other | CR104PBG00*3 ² | \$15.90 |
| 1NO-1NC | Black | CR104PBG91B3 | \$34.20 |
| 1NO-1NC | Red | CR104PBG91R3 | \$34.20 |
| 1NO-1NC | Green | CR104PBG91G3 | \$34.20 |
| 1NO-1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG91U3 ¹ | \$34.20 |
| 1NO-1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG91V3 ¹ | \$34.20 |
| 1NO-1NC | Other | CR104PBG91*3 ² | \$33.90 |
| 2NO-2NC | Black | CR104PBG92B3 | \$52.20 |
| 2NO-2NC | Red | CR104PBG92R3 | \$52.20 |
| 2NO-2NC | Green | CR104PBG92G3 | \$52.20 |
| 2NO-2NC | 1 Each: Red, Green, Yellow, Black | CR104PBG92U3 ¹ | \$52.20 |
| 2NO-2NC | 1 Each: Brown, Blue, Orange, White | CR104PBG92V3 ¹ | \$52.20 |
| 2NO-2NC | Other | CR104PBG92*3 ² | \$51.90 |
| 1NO | Black | CR104PBG10B3 | \$25.20 |
| 1NO | Red | CR104PBG10R3 | \$25.20 |
| 1NO | Green | CR104PBG10G3 | \$25.20 |
| 1NO | 1 Each: Red, Green, Yellow, Black | CR104PBG10U3 ¹ | \$25.20 |
| 1NO | 1 Each: Brown, Blue, Orange, White | CR104PBG10V3 ¹ | \$25.20 |
| 1NO | Other | CR104PBG10*3 ² | \$24.90 |
| 1NC | Black | CR104PBG01B3 | \$25.20 |
| 1NC | Red | CR104PBG01R3 | \$25.20 |
| 1NC | Green | CR104PBG01G3 | \$25.20 |
| 1NC | 1 Each: Red, Green, Yellow, Black | CR104PBG01U3 ¹ | \$25.20 |
| 1NC | 1 Each: Brown, Blue, Orange, White | CR104PBG01V3 ¹ | \$25.20 |
| 1NC | Other | CR104PBG01*3 ² | \$24.90 |



Recessed Button

¹Supplied with 4 caps: Unassembled.

²To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

Cap Colors Available*

| Color | Insert in place of asterisk (*) | List Price Adder, GO-10P1 Push Buttons |
|--------|---------------------------------|--|
| Yellow | E | \$0.30 |
| Blue | L | \$0.30 |
| Orange | M | \$0.30 |
| Brown | N | \$0.30 |
| White | W | \$0.30 |
| No Cap | A | \$0.00 |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Standard

Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Extended Button without Guard - Momentary Operator

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Product Number ² | List Price GO-10P1 |
|-------------------------|-----------------|------------------------|-----------------------|-----------------------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*1S2 | \$82.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*1S3 | \$82.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*1S4 | \$82.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*1S5 | \$82.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBL11*1S6 | \$70.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NO-1NC | CR104PBL11*1S7 | \$70.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NO-1NC | CR104PBL11*1S8 | \$70.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBL11*1S2 | \$70.20 |
| Dual Input ³ | 120V Dual Input | Incand., 130V | 1NO-1NC | CR104PBL91*1H2 | \$100.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NO-1NC | CR104PBL11*1L6 | \$88.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NO-1NC | CR104PBL11*1L7 | \$88.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NO-1NC | CR104PBL11*1L8 | \$88.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NO-1NC | CR104PBL11*1L2 | \$88.20 |



Extended without Guard

Extended Button with Guard - Momentary Operator

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Product Number ² | List Price GO-10P1 |
|-------------------------|-----------------|------------------------|-----------------------|-----------------------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*3S2 | \$88.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*3S3 | \$88.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*3S4 | \$88.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*3S5 | \$88.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBL11*3S6 | \$76.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NO-1NC | CR104PBL11*3S7 | \$76.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NO-1NC | CR104PBL11*3S8 | \$76.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBL11*3S2 | \$76.20 |
| Dual Input ³ | 120V Dual Input | Incand., 130V | 1NO-1NC | CR104PBL11*3H2 | \$106.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NO-1NC | CR104PBL11*3L6 | \$94.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NO-1NC | CR104PBL11*3L7 | \$94.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NO-1NC | CR104PBL11*3L8 | \$94.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NO-1NC | CR104PBL11*3L2 | \$94.20 |



Extended with Guard

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart below.

³See page 9-3 for dual input wiring diagram.

Push-Push Maintained Operator

The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

| Power Supply Type | Voltage (60/50 Hz) | Lamp Type ¹ | Contact Configuration ³ | Color | Product Number ⁴ | List Price GO-10P1 |
|-------------------|--------------------|------------------------|------------------------------------|--------|-----------------------------|-----------------------|
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Red | CR104PBT11R1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Green | CR104PBT11G1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Yellow | CR104PBT11E1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Blue | CR104PBT11B1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Amber | CR104PBT11M1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | Clear | CR104PBT11C1B2 | \$100.20 |
| Transformer | 120 V | Incand., 6V, #755 | 1NC-1NO | White | CR104PBT11W1B2 | \$100.20 |

⁴Supplied with one NO (early closing) and one NC single circuit contact blocks.

Product number and price do not include nameplate. Nameplates must be ordered as separate item from pages 9-40 to 9-41. Resistor-type illuminated push button units are available. Contact your nearest GE Energy Rep.

Lens Colors Available*

| Color | Insert in place of asterisk (*) |
|--------------------|---------------------------------|
| No Lens Cap | A ⁵ |
| Clear ⁶ | C |
| Yellow | E |
| Green | G |
| Blue | L |
| Amber | M |
| Red | R |
| White | W |

⁵Subtract \$4.20.

⁶Not available as LED.



Push-Push, Illuminated Push Button



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Mushroom-Head
Non-Illuminated
600 Volts Maximum AC/DC
10 Amperes Continuous

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks, except 2 3/8" diameter mushroom-head, which is unattached.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

1 3/8" Diameter - Momentary Operator

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|-------|---------------------------|-----------------------|
| None (Operator Only) | Black | CR104PBM00B5 | \$34.20 |
| None (Operator Only) | Red | CR104PBM00R5 | \$34.20 |
| None (Operator Only) | Other | CR104PBM00*5 ¹ | \$28.20 |
| 1NO-1NC | Black | CR104PBM91B5 | \$52.20 |
| 1NO-1NC | Red | CR104PBM91R5 | \$52.20 |
| 1NO-1NC | Other | CR104PBM91*5 ¹ | \$46.20 |
| 2NO-2NC | Black | CR104PBM92B5 | \$70.20 |
| 2NO-2NC | Red | CR104PBM92R5 | \$70.20 |
| 2NO-2NC | Other | CR104PBM92*5 ¹ | \$64.20 |
| 1NO | Black | CR104PBM10B5 | \$43.20 |
| 1NO | Red | CR104PBM10R5 | \$43.20 |
| 1NO | Other | CR104PBM10*5 ¹ | \$37.20 |
| 1NC | Black | CR104PBM01B5 | \$43.20 |
| 1NC | Red | CR104PBM01R5 | \$43.20 |
| 1NC | Other | CR104PBM01*5 ¹ | \$37.20 |



1 3/8" Mushroom Head



2 3/8" Mushroom Head

2 3/8" Diameter - Momentary Operator

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|-------|---------------------------|-----------------------|
| None (Operator Only) | Black | CR104PBM00B6 | \$34.20 |
| None (Operator Only) | Red | CR104PBM00R6 | \$34.20 |
| None (Operator Only) | Other | CR104PBM00*6 ¹ | \$28.20 |
| 1NO-1NC | Black | CR104PBM91B6 | \$52.20 |
| 1NO-1NC | Red | CR104PBM91R6 | \$52.20 |
| 1NO-1NC | Other | CR104PBM91*6 ¹ | \$46.20 |
| 2NO-2NC | Black | CR104PBM92B6 | \$70.20 |
| 2NO-2NC | Red | CR104PBM92R6 | \$70.20 |
| 2NO-2NC | Other | CR104PBM92*6 ¹ | \$64.20 |
| 1NO | Black | CR104PBM10B6 | \$43.20 |
| 1NO | Red | CR104PBM10R6 | \$43.20 |
| 1NO | Other | CR104PBM10*6 ¹ | \$37.20 |
| 1NC | Black | CR104PBM01B6 | \$43.20 |
| 1NC | Red | CR104PBM01R6 | \$43.20 |
| 1NC | Other | CR104PBM01*6 ¹ | \$37.20 |

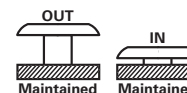


Push-to-Latch, Turn-to-Release

1 3/8" Diameter Push-to-latch, turn-to-release

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|-------|-----------------|-----------------------|
| None (Operator Only) | Red | CR104PTR20A0R | \$52.20 |
| 1NO-1NC | Red | CR104PTR20A0R91 | \$70.20 |
| 2NO-2NC | Red | CR104PTR20A0R92 | \$88.20 |
| 1NO | Red | CR104PTR20A0R1 | \$61.20 |
| 1NC | Red | CR104PTR20A0R01 | \$61.20 |

¹To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

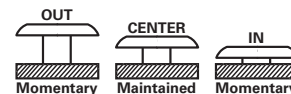


2 Position Maintained

NC X O
NO O X

Push-Pull Maintained Operator

| Contact Configuration | Color | Operation | Product Number | List Price GO-10P1 |
|-----------------------|-------|---|----------------|-----------------------|
| 1NO-1NC | Red | 2 Position Maintained | CR104PBM01R5C | \$61.20 |
| 1NC-1NC late breaking | Red | 3 Position, Momentary Push, Momentary Pull | CR104PBM0LR5D | \$61.20 |
| 1NC-1NC late breaking | Red | 3 Position, Maintained Push, Momentary Pull | CR104PBM0LR5E | \$61.20 |

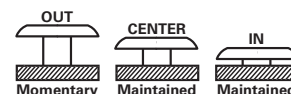


Momentary Push - Momentary Pull

NC X X O
NC X O O

Cap Colors Available*

| Color | Insert in place of asterisk (*) | List Price Adder, GO-10P1 Mushroom Heads |
|--------|---------------------------------|---|
| Yellow | E | \$6.00 |
| Green | G | \$6.00 |
| No Cap | A | \$0.00 |



Maintained Push - Momentary Pull

NC X X O
NC X O O



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Mushroom-Head
600 Volts Maximum AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications.

1 3/8" Diameter Illuminated - Momentary Operator

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Product Number ² | List Price GO-10P1 |
|-------------------|----------------|------------------------|-----------------------|-----------------------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5S2 | \$96.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5S3 | \$96.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5S4 | \$96.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5S5 | \$96.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBL11*5S6 | \$84.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NO-1NC | CR104PBL11*5S7 | \$84.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NO-1NC | CR104PBL11*5S8 | \$84.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBL11*5S2 | \$84.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NO-1NC | CR104PBL11*5L6 | \$102.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NO-1NC | CR104PBL11*5L7 | \$102.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NO-1NC | CR104PBL11*5L8 | \$102.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NO-1NC | CR104PBL11*5L2 | \$102.20 |



Illuminated Mushroom-Head
Push Button

1 5/8" Diameter Illuminated - Momentary Operator

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Product Number ^{2, 3} | List Price GO-10P1 |
|-------------------|----------------|------------------------|-----------------------|--------------------------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*7S2 | \$96.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*7S3 | \$96.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*7S4 | \$96.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*7S5 | \$96.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBL11*7S6 | \$84.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NO-1NC | CR104PBL11*7S7 | \$84.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NO-1NC | CR104PBL11*7S8 | \$84.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBL11*7S2 | \$84.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NO-1NC | CR104PBL11*7L6 | \$102.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NO-1NC | CR104PBL11*7L7 | \$102.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NO-1NC | CR104PBL11*7L8 | \$102.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NO-1NC | CR104PBL11*7L2 | \$102.20 |

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart below.

³1 5/8" mushroom-head push buttons are special order—nonstock.

Lens Colors Available*

| Color | Insert in place of asterisk (*) |
|--------------------|---------------------------------|
| No Lens Cap | A ⁴ |
| Clear ⁵ | C |
| Yellow | E |
| Green | G |
| Blue | L |
| Amber | M |
| Red | R |
| White | W |

⁴Subtract \$4.20.

⁵Not available as LED.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Key Operated
 600 Volts Maximum AC/DC
 10 Amperes Continuous

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

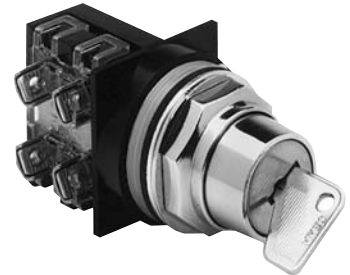
Operator Alone

| Position Type | Release Type | Product Number | List Price GO-10P1 |
|--------------------------------------|--|----------------|-----------------------|
| Lock in Depressed and Free Positions | - | CR104PBK00A1J | \$52.20 |
| Lock Only in Free Position | - | CR104PBK00A1K | \$52.20 |
| Lock Only in Depressed Position | - | CR104PBK00A1L | \$52.20 |
| - | Push-To-Latch, Key Operate To Reset | CR104PBK00A1M | \$52.20 |

Select contact blocks from page 9-34.

Assembled Operator

| Position Type | Release Type | Contact Configuration | Product Number | List Price GO-10P1 |
|--------------------------------------|--|-----------------------|----------------|-----------------------|
| Lock in Depressed and Free Positions | - | 1NO-1NC | CR104PBK91A1J | \$70.20 |
| Lock Only in Free Position | - | 1NO-1NC | CR104PBK91A1K | \$70.20 |
| Lock Only in Depressed Position | - | 1NO-1NC | CR104PBK91A1L | \$70.20 |
| - | Push-To-Latch, Key Operate To Reset | 1NO-1NC | CR104PBK91A1M | \$70.20 |



Key Operated Push Button



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Special Function

Non-Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

Push-Push

The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

| Contact Configuration ¹ | Color | Product Number | List Price GO-10P1 |
|------------------------------------|--------|----------------|-----------------------|
| 1NC-1NO | Black | CR104PBG11B1B | \$52.20 |
| 1NC-1NO | Red | CR104PBG11R1B | \$52.20 |
| 1NC-1NO | Green | CR104PBG11G1B | \$52.20 |
| 1NC-1NO | Yellow | CR104PBG11E1B | \$52.20 |
| 1NC-1NO | Blue | CR104PBG11L1B | \$52.20 |
| 1NC-1NO | Orange | CR104PBG11M1B | \$52.20 |
| 1NC-1NO | Brown | CR104PBG11N1B | \$52.20 |
| 1NC-1NO | White | CR104PBG11W1B | \$52.20 |

¹Supplied with one NO (early make) and one NC single-circuit contact block.



Push-Push, Non-Illuminated
Push Button

Left Right



Contact Configuration

Time-Delay (Adjustable 0.5-30 Seconds)

| Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-----------------------|--------|----------------|-----------------------|
| 1NO-1NC | Black | CR104PBG99B1 | \$106.20 |
| 1NO-1NC | Red | CR104PBG99R1 | \$106.20 |
| 1NO-1NC | Green | CR104PBG99G1 | \$106.20 |
| 1NO-1NC | No Cap | CR104PBG99A1 | \$105.90 |
| 1NO-1NC | Yellow | CR104PBG99E1 | \$106.20 |
| 1NO-1NC | Blue | CR104PBG99L1 | \$106.20 |
| 1NO-1NC | Orange | CR104PBG99M1 | \$106.20 |
| 1NO-1NC | Brown | CR104PBG99N1 | \$106.20 |
| 1NO-1NC | White | CR104PBG99W1 | \$106.20 |



Time-Delay Push Button



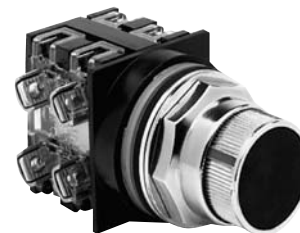
Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-56 to 9-57
 Drilling Plans and Dimensions: See page 9-57

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Special Function
Non-Illuminated
Push-Turn
600 Volts Maximum AC/DC
10 Amperes Continuous



Push-Turn Unit

Suitable for use in NEMA Types 1, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position

| Contact State | | Product Number ¹ | List Price GO-10P1 |
|---------------|---------------|-----------------------------|-----------------------|
| Push Position | Turn Position | | |
| Free | | CR104PTP26E0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP26D0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP21B0*91 | \$52.20 |
| Depressed | | | |
| Free | | CR104PTP22B0*91 | \$52.20 |
| Depressed | | | |
| Free | | CR104PTP22B0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP22D0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP21C0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP23C0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP23B0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP24C0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP24E3*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP25B3*92 | \$70.20 |
| Depressed | | | |

3-Position

| Contact State | | Product Number ¹ | List Price GO-10P1 |
|---------------|---------------|-----------------------------|-----------------------|
| Push Position | Turn Position | | |
| Free | | CR104PTP31E0*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP31E2*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP34E6*91 | \$52.20 |
| Depressed | | | |
| Free | | CR104PTP32F2*92 | \$70.20 |
| Depressed | | | |
| Free | | CR104PTP32G2*92 | \$70.20 |
| Depressed | | | |

¹Replace asterisk (*) in product number with letter from chart below.

Cap Colors Available*

| Color | Insert in place of asterisk (*) |
|--------|---------------------------------|
| Black | B |
| Red | R |
| Green | G |
| Yellow | E |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Special Function
Illuminated
600 Volts Maximum AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Not available for CR104PBT devices.

2-Position Maintained 1 3/8" diameter

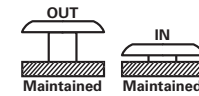
| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Product Number ² | List Price GO-10P1 |
|-------------------|----------------|------------------------|-----------------------|-----------------------------|--------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5C2 | \$100.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5C3 | \$100.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5C4 | \$100.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBT11*5C5 | \$100.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | CR104PBL11*5C6 | \$88.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NO-1NC | CR104PBL11*5C7 | \$88.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NO-1NC | CR104PBL11*5C8 | \$88.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBL11*5C2 | \$88.20 |
| Resistor | 120V 50/60 Hz | Incand., 60V | 1NO-1NC | CR104PBR11*5C2 | \$88.20 |
| Resistor | 240V 50/60 Hz | Incand., 130V | 1NO-1NC | CR104PBR11*5C3 | \$88.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NO-1NC | CR104PBL11*5P6 | \$106.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NO-1NC | CR104PBL11*5P7 | \$106.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NO-1NC | CR104PBL11*5P8 | \$106.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NO-1NC | CR104PBL11*5P2 | \$106.20 |



Push-Pull Illuminated Push Button

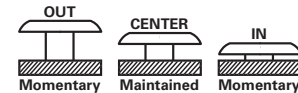
Push-Pull 3-Position Momentary Push-Momentary Pull

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-------------------|----------------|------------------------|-----------------------|----------|----------------|--------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5D2 | \$100.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5D3 | \$100.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5D4 | \$100.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5D5 | \$100.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5D6 | \$88.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5D7 | \$88.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5D8 | \$88.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5D2 | \$88.20 |
| Resistor | 120V 50/60 Hz | Incand., 60V | 1NC-1NC late breaking | Red Lens | CR104PBR0LR5D2 | \$88.20 |
| Resistor | 240V 50/60 Hz | Incand., 130V | 1NC-1NC late breaking | Red Lens | CR104PBR0LR5D3 | \$88.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5K6 | \$106.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5K7 | \$106.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5K8 | \$106.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5K2 | \$106.20 |



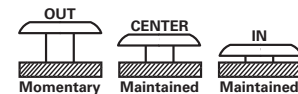
2 Position Maintained

NC X O
NO O X



Momentary Push - Momentary Pull

³NC X X O
NC X O O



Maintained Push - Momentary Pull

³NC X X O
NC X O O

Push-Pull 3-Position Maintained Push-Momentary Pull

| Power Supply Type | Supply Voltage | Lamp Type ¹ | Contact Configuration | Color | Product Number | List Price GO-10P1 |
|-------------------|----------------|------------------------|-----------------------|----------|----------------|--------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5E2 | \$100.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5E3 | \$100.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5E4 | \$100.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBTOLR5E5 | \$100.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5E6 | \$88.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5E7 | \$88.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5E8 | \$88.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5E2 | \$88.20 |
| Resistor | 120V 50/60 Hz | Incand., 60V | 1NC-1NC late breaking | Red Lens | CR104PBR0LR5E2 | \$88.20 |
| Resistor | 240V 50/60 Hz | Incand., 130V | 1NC-1NC late breaking | Red Lens | CR104PBR0LR5E3 | \$88.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5M6 | \$106.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5M7 | \$106.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5M8 | \$106.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | 1NC-1NC late breaking | Red Lens | CR104PBL0LR5M2 | \$106.20 |

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart to right.

³Normally closed, late-breaking contacts.

Lens Colors Available*

| Color | Insert in place of asterisk (*) |
|--------------------|---------------------------------|
| No Lens Cap | A ⁴ |
| Clear ⁵ | C |
| Yellow | E |
| Green | G |
| Blue | L |
| Amber | M |
| Red | R |
| White | W |

⁴Subtract \$4.20.

⁵Not available as LED.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Protected Mushroom-Head
600 Volts Max. AC/DC
10 Amperes Continuous

CR104PTY protected mushroom-head push buttons are designed specifically for rugged industrial applications and hazardous duty environments, including food and beverage, mining, construction, timber, pulp/paper, and automotive/trucking industries. They also are ideal for such E-stop applications as fuel stations and airport baggage handling equipment.

In addition to providing unsurpassed vibration and impact resistance, CR104PTY protected mushroom-head push buttons allow operation with heavy gloves, provide illuminated lens visibility from all angles, and permit mounting of four double-circuit contact blocks. The bright chrome operator is available in two- or three-position forms. It can be used with other CR104P operators or as a stand-alone unit.

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



All Forms

Step-by-step selection and pricing of all forms.

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|--|---|------|---------------------------|------------------------|
| | | | | | | | | | | ① | | | ② | | | ③ | | | ④ | | | |
| Product Number | | | | | | | | | | C | R | 1 | 0 | 4 | P | T | Y | | | | | = Complete Product No. |
| Price | | | | | | | | | | + | | + | | + | | | | | | + \$ | Total List Price, GO-10P1 | |

(Photocopying this blank form will allow for its repeated use.)

① Select Operator

Select the operator. Transfer the product number digit to the box marked ① in the product number line and the price to the box marked ① in the price line at the bottom of next page.

Note your operator's product number digit for use in later selection steps.

| Version | Product No. Digit | List Price Adder, GO-10P1 |
|---|-------------------|---------------------------|
| 2-Position Push-Pull Maintained ¹ | 2 | \$43.00 |
| 3-Position Momentary Push-Pull ¹ | 4 | \$43.00 |
| 3-Position Momentary Pull, Maintained Push ¹ | 5 | \$43.00 |

¹See page 9-14 for contact type/position

② Select Service Voltage

Select service voltage. Transfer the product number digit to the box marked ② in the product number line and the price to the box marked ② in the price line at the bottom of next page.

| Service Voltage | Product No. Digit | List Price Adder, GO-10P1 |
|----------------------|-------------------|---------------------------|
| Nonilluminated | 09 | \$0.00 (NC) |
| No lamp ² | 10 | \$18.00 |
| 120V | 11 | \$21.00 |
| 6-8V | 12 | \$21.00 |
| 12V | 13 | \$21.00 |
| 18V | 14 | \$21.00 |
| 24V | 15 | \$21.00 |

²Basic line version—no set voltage and no lamp. Use LED listed on page 9-35 when longer bulb life is required. LED must match lens color.

③ Select Cap/Lens Color

Select cap/lens color. Transfer the product number digit to the box marked ③ in the product number line and the price to the box marked ③ in the price line at the bottom of next page.

| Cap/Lens Color | Product No. Digit | List Price Adder, GO-10P1 |
|----------------|-------------------|---------------------------|
| No Cap | 1 | \$0.00 (NC) |
| Black | 2 | \$6.00 |
| Red | 3 | \$6.00 |
| Orange | 4 | \$6.00 |
| Yellow | 5 | \$6.00 |
| Green | 6 | \$6.00 |
| Blue | 7 | \$6.00 |
| White | 8 | \$6.00 |

④ Select Contact Block

Select contact block. Transfer the product number digit to the box marked ④ in the product number line and the price to the box marked ④ in the price line at the bottom of this page.

| Contact Block | Product No. Digits | List Price Adder, GO-10P1 |
|------------------------|--------------------|---------------------------|
| No contact block | 00 | \$0.00 (NC) |
| 1 Normally Closed (NC) | 01 | \$9.00 |
| 2NC | 02 | \$18.00 |
| 1 Normally Open (NO) | 10 | \$9.00 |
| 1NO-1NC | 11 | \$18.00 |
| 2NO | 20 | \$18.00 |
| 2NO-2NC | 22 | \$36.00 |



Lamps: See pages 9-35

Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plans and Dimensions: See page 9-57

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Protected Mushroom-Head
 600 Volts Max. AC/DC
 10 Amperes Continuous

2-Position



| Contact Block | Maintained Pulled Out | Maintained Push In |
|---------------|-----------------------|--------------------|
| NC | X | 0 |
| NO | 0 | X |

3-Position



| Contact Block | Contact Position | Momentary Pull Out | Maintained Center | Momentary Push In |
|---------------|------------------|--------------------|-------------------|-------------------|
| NC | Left | X | 0 | 0 |
| NO | Left | 0 | 0 | X |
| NC | Right | X | X | 0 |
| NOEM | Left | 0 | X | X |

NOEM—Normally Open Early Make
NOTE: All other combinations are invalid.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Pilot Devices

CR104P

600 Volts Max. AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rates for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Standard Indicating Lights

| Power Supply Type | Supply Voltage | Lamp Type | Product Number ¹ | List Price GO-10P1 |
|------------------------|----------------|---------------------------|-----------------------------|--------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | CR104PLG32* | \$64.20 |
| Transformer | 200-208V 60 Hz | Incand., 6V, #755 | CR104PLG3A* | \$64.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | CR104PLG33* | \$64.20 |
| Transformer | 277V 60 Hz | Incand., 6V, #755 | CR104PLG3B* | \$64.20 |
| Transformer | 347V 60 Hz | Incand., 6V, #755 | CR104PLG3C* | \$64.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | CR104PLG34* | \$64.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | CR104PLG35* | \$64.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | CR104PLG16* | \$52.50 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | CR104PLG17* | \$52.50 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | CR104PLG18* | \$52.50 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | CR104PLG22* | \$52.50 |
| Resistor | 120V 50/60 Hz | Incand., 60V | CR104PLG42* | \$52.50 |
| Resistor | 240V 50/60 Hz | Incand., 130V | CR104PLG43* | \$52.50 |
| Transformer | 120V 50/60 Hz | LED, 6V | CR104PLG92* | \$82.20 |
| Transformer | 200-208V 60 Hz | LED, 6V | CR104PLG9A* | \$82.20 |
| Transformer | 240V 50/60 Hz | LED, 6V | CR104PLG93* | \$82.20 |
| Transformer | 277V 60 Hz | LED, 6V | CR104PLG9B* | \$82.20 |
| Transformer | 347V 60 Hz | LED, 6V | CR104PLG9C* | \$82.20 |
| Transformer | 480V 50/60 Hz | LED, 6V | CR104PLG94* | \$82.20 |
| Transformer | 600V 50/60 Hz | LED, 6V | CR104PLG95* | \$82.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | CR104PLG86* | \$70.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | CR104PLG87* | \$70.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | CR104PLG88* | \$70.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | CR104PLG82* | \$70.20 |
| Transformer, Flashing | 120V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLG62* | \$67.20 |
| Transformer, Flashing | 200-208V 60 Hz | Incand., 6V, #267 Flasher | CR104PLG6A* | \$67.20 |
| Transformer, Flashing | 240V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLG63* | \$67.20 |
| Transformer, Flashing | 277V 60 Hz | Incand., 6V, #267 Flasher | CR104PLG6B* | \$67.20 |
| Transformer, Flashing | 347V 60 Hz | Incand., 6V, #267 Flasher | CR104PLG6C* | \$67.20 |
| Transformer, Flashing | 480V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLG64* | \$67.20 |
| Transformer, Flashing | 600V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLG65* | \$67.20 |
| Full Voltage, Flashing | 6V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLG56* | \$70.20 |
| Full Voltage | 120V | Neon, 120V, #NE51H-R | CR104PLG72* | \$55.20 |



Standard

Push to Test Indicating Lights

| Power Supply Type | Supply Voltage | Lamp Type | Product Number ¹ | List Price GO-10P1 |
|------------------------|----------------|---------------------------|-----------------------------|--------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | CR104PLT32* | \$82.20 |
| Transformer | 200-208V 60 Hz | Incand., 6V, #755 | CR104PLT3A* | \$82.20 |
| Transformer | 240V 50/60 Hz | Incand., 6V, #755 | CR104PLT33* | \$82.20 |
| Transformer | 277V 60 Hz | Incand., 6V, #755 | CR104PLT3B* | \$82.20 |
| Transformer | 347V 60 Hz | Incand., 6V, #755 | CR104PLT3C* | \$82.20 |
| Transformer | 480V 50/60 Hz | Incand., 6V, #755 | CR104PLT34* | \$82.20 |
| Transformer | 600V 50/60 Hz | Incand., 6V, #755 | CR104PLT35* | \$82.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #755 | CR104PLT16* | \$70.20 |
| Full Voltage | 12V 50/60 Hz | Incand., 12V, #756 | CR104PLT17* | \$70.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #1819 | CR104PLT18* | \$70.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | CR104PLT22* | \$70.20 |
| Resistor | 120V 50/60 Hz | Incand., 60V | CR104PLT42* | \$70.20 |
| Resistor | 240V 50/60 Hz | Incand., 130V | CR104PLT43* | \$70.20 |
| Transformer | 120V 50/60 Hz | LED, 6V | CR104PLT92* | \$100.20 |
| Transformer | 200-208V 60 Hz | LED, 6V | CR104PLT9A* | \$100.20 |
| Transformer | 240V 50/60 Hz | LED, 6V | CR104PLT93* | \$100.20 |
| Transformer | 277V 60 Hz | LED, 6V | CR104PLT9B* | \$100.20 |
| Transformer | 347V 60 Hz | LED, 6V | CR104PLT9C* | \$100.20 |
| Transformer | 480V 50/60 Hz | LED, 6V | CR104PLT94* | \$100.20 |
| Transformer | 600V 50/60 Hz | LED, 6V | CR104PLT95* | \$100.20 |
| Full Voltage | 6 VAC/DC | LED, 6V | CR104PLT86* | \$88.20 |
| Full Voltage | 12 VAC/DC | LED, 12V | CR104PLT87* | \$88.20 |
| Full Voltage | 24 VAC/DC | LED, 24V | CR104PLT88* | \$88.20 |
| Full Voltage | 120 VAC/DC | LED, 120V | CR104PLT82* | \$88.20 |
| Transformer, Flashing | 120V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLT62* | \$85.20 |
| Transformer, Flashing | 200-208V 60 Hz | Incand., 6V, #267 Flasher | CR104PLT6A* | \$85.20 |
| Transformer, Flashing | 240V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLT63* | \$85.20 |
| Transformer, Flashing | 277V 60 Hz | Incand., 6V, #267 Flasher | CR104PLT6B* | \$85.20 |
| Transformer, Flashing | 347V 60 Hz | Incand., 6V, #267 Flasher | CR104PLT6C* | \$85.20 |
| Transformer, Flashing | 480V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLT64* | \$85.20 |
| Transformer, Flashing | 600V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLT65* | \$85.20 |
| Full Voltage, Flashing | 6V 50/60 Hz | Incand., 6V, #267 Flasher | CR104PLT56* | \$88.20 |
| Full Voltage | 120V | Neon, 120V, #NE51H-R | CR104PLT72* | \$73.20 |



Push-to-Test

Lens Colors Available*

| Color | Insert in place of asterisk (*) |
|--------------------|---------------------------------|
| No Lens | A ^{2,3,4} |
| Clear ⁴ | C ³ |
| Yellow | E ⁴ |
| Green | G ⁴ |
| Blue | L ⁴ |
| Amber | M |
| Red | R |
| White | W |

²Subtract \$4.20 from list price with no lens.

³Not suitable for use with LED.

⁴Not suitable for use with NEON light.

¹Replace asterisk (*) in product number with letter from table on right.



Lamps: See page 9-35

Nameplates: See pages 9-40 to 9-41

Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

600 Volts Max. AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Cluster-Type (Steady Light, Miniature Bayonet Lamp Socket)

| Power Supply Type | Supply Voltage | Lamp Type | Cluster Type | Product Number | List Price GO-10P1 |
|-------------------|----------------|--------------------|--------------|----------------|-----------------------|
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #176B | 2-Lamp | CR104PLB16W | \$112.20 |
| Full Voltage | 12V 50/60Hz | Incand., 12V, #373 | 2-Lamp | CR104PLB17W | \$112.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #399 | 2-Lamp | CR104PLB18W | \$112.20 |
| Full Voltage | 6V 50/60 Hz | Incand., 6V, #176B | 4-Lamp | CR104PLQ16W | \$238.20 |
| Full Voltage | 12V 50/60Hz | Incand., 12V, #373 | 4-Lamp | CR104PLQ17W | \$238.20 |
| Full Voltage | 24V 50/60 Hz | Incand., 24V, #399 | 4-Lamp | CR104PLQ18W | \$238.20 |

All cluster lights shipped with one boot of each of the following colors—yellow, green, blue, and red. Bulb extractor available, CR104MG128 at List Price, GO-10P1, \$6.00.



Cluster Lights

Accessories

Cluster lights provide either two or four separate light signals in the same space as one full-size indicating light. Colored boots can provide color distinction to each lamp. Applications should not energize more than two lamps continuously.

| Accessory Type | Color | Package Quantity | Product Number | List Price GO-10P1 |
|-----------------------------------|-------------------------------------|--------------------|----------------|-----------------------|
| Lens and Divider (2 Lamp Cluster) | White | | CR104PXL02W | \$5.70 |
| Lens and Divider (4 Lamp Cluster) | White | | CR104PXL04W | \$5.70 |
| Cluster-Type Pilot Light Boots | Yellow | 4 | CR104PXL08E | \$0.37 |
| Cluster-Type Pilot Light Boots | Green | 4 | CR104PXL08G | \$0.37 |
| Cluster-Type Pilot Light Boots | Blue | 4 | CR104PXL08L | \$0.37 |
| Cluster-Type Pilot Light Boots | Red | 4 | CR104PXL08R | \$0.37 |
| Cluster-Type Pilot Light Boots | 1 Each: Yellow, Green, Blue, Red | Four, 1 each color | CR104PXL08T | \$1.50 per package |

Remote Test Lights (Dual Input Illuminated Push Buttons)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts is a remote test indicating light.

| Power Supply Type | Supply Voltage | Lamp Type | Contacts | Product Number ¹ | List Price GO-10P1 |
|-------------------|----------------|----------------------|----------|-----------------------------|-----------------------|
| Full Voltage | 120V 50/60 Hz | Incand., 120V, #90MB | with | CR104PBL91*1H2 | \$100.20 |
| Full Voltage | 120V 50/60 Hz | Incand., 120V, #90MB | without | CR104PBL00*1H2 | \$82.20 |

¹Replace asterisk (*) in product number with letter from table below.

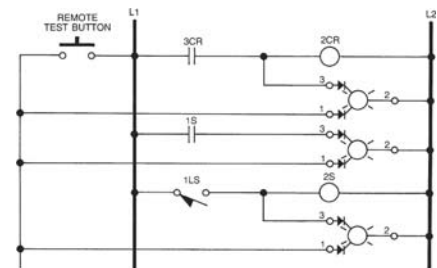
Lens Colors Available*

| Color | Insert in place of asterisk (*) |
|--------------------|---------------------------------|
| No Lens | A ^{2,3,4} |
| Clear ⁴ | C ³ |
| Yellow | E ⁴ |
| Green | G ⁴ |
| Blue | L ⁴ |
| Amber | M |
| Red | R |
| White | W |

²Subtract \$4.20 from list price with no lens.

³Not suitable for use with LED.

⁴Not suitable for use with NEON light.



Typical wiring diagram for remote test of lights using dual input "remote test" lights.

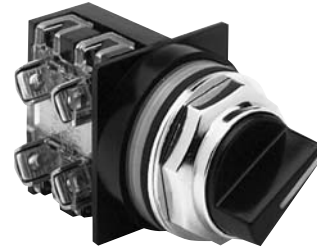


Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Knob-Operated Selector Switch

Units are supplied factory-assembled when ordered with contact block.

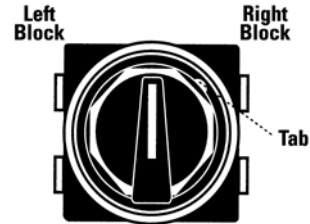
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position - Black Knob¹

| Release Type | 2 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 1 | None | CR104PSG21B | \$22.20 |
| Maintained | 1 | 1NO-1NC | CR104PSG21B91 | \$40.20 |
| Maintained | 1 | 2NO-2NC | CR104PSG21B92 | \$58.20 |
| Spring Return L → C | 2 | None | CR104PSG12B | \$34.20 |
| Spring Return L → C | 2 | 1NO-1NC | CR104PSG12B91 | \$52.20 |
| Spring Return L → C | 2 | 2NO-2NC | CR104PSG12B92 | \$70.20 |
| Spring Return R → C | 3 | None | CR104PSG63B | \$34.20 |
| Spring Return R → C | 3 | 1NO-1NC | CR104PSG63B91 | \$52.20 |
| Spring Return R → C | 3 | 2NO-2NC | CR104PSG63B92 | \$70.20 |

¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).



Contacts viewed from front of panel.

2-Position Selector Switches - Non-Illuminated

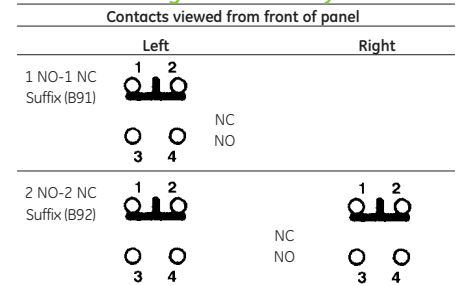
| Operator Position | Cam #1 | | Cam #2 | | Cam #3 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O | - | X | NO | L or R | - | - |
| X | - | O | NC | L or R | - | - |
| X | O | - | - | - | NO | L or R |
| O | X | - | - | - | NC | L or R |
| - | O | X | - | - | - | NO |
| - | X | O | - | - | - | NC |

- : This position is nonexistent or is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

3-Position - Black Knob¹ - Maintained

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 4 | None | CR104PSG34B | \$22.20 |
| Maintained | 4 | 1NO-1NC | CR104PSG34B91 | \$40.20 |
| Maintained | 4 | 2NO-2NC | CR104PSG34B92 | \$58.20 |
| Maintained | 2 | None | CR104PSG32B | \$22.20 |
| Maintained | 2 | 1NO-1NC | CR104PSG32B91 | \$40.20 |
| Maintained | 2 | 2NO-2NC | CR104PSG32B92 | \$58.20 |
| Maintained | 3 | None | CR104PSG33B | \$22.20 |
| Maintained | 3 | 1NO-1NC | CR104PSG33B91 | \$40.20 |
| Maintained | 3 | 2NO-2NC | CR104PSG33B92 | \$58.20 |
| Maintained | 5 | None | CR104PSG35B | \$22.20 |
| Maintained | 5 | 2NO-2NC | CR104PSG35B92 | \$58.20 |
| Maintained | 6 | None | CR104PSG36B | \$22.20 |
| Maintained | 6 | 2NO-2NC | CR104PSG36B92 | \$58.20 |

3-Position - Black Knob¹ - Spring Return L → C

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return L → C | 4 | None | CR104PSG74B | \$34.20 |
| Spring Return L → C | 4 | 1NO-1NC | CR104PSG74B91 | \$52.20 |
| Spring Return L → C | 4 | 2NO-2NC | CR104PSG74B92 | \$70.20 |
| Spring Return L → C | 2 | None | CR104PSG72B | \$34.20 |
| Spring Return L → C | 2 | 1NO-1NC | CR104PSG72B91 | \$52.20 |
| Spring Return L → C | 2 | 2NO-2NC | CR104PSG72B92 | \$70.20 |
| Spring Return L → C | 3 | None | CR104PSG73B | \$34.20 |
| Spring Return L → C | 3 | 1NO-1NC | CR104PSG73B91 | \$52.20 |
| Spring Return L → C | 3 | 2NO-2NC | CR104PSG73B92 | \$70.20 |
| Spring Return L → C | 5 | None | CR104PSG75B | \$34.20 |
| Spring Return L → C | 5 | 2NO-2NC | CR104PSG75B92 | \$70.20 |
| Spring Return L → C | 6 | None | CR104PSG76B | \$34.20 |
| Spring Return L → C | 6 | 2NO-2NC | CR104PSG76B92 | \$70.20 |

¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

3-Position Selector Switches - Non-Illuminated

| Operator Position | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O | O | X | NO | L or R | - | - | NO | L or R | NO | Left |
| O | X | O | - | - | NC | L or R | NC | L or R | NC | Right |
| X | O | O | NC | L or R | NO | L or R | - | - | NC | Left |
| X | X | O | - | - | - | - | - | - | NC | Right |
| O | X | X | - | - | - | - | - | - | - | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Knob Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

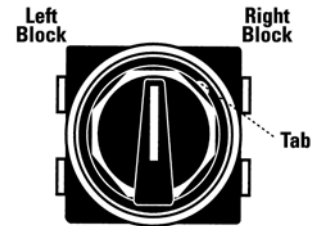
Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Knob-Operated Selector Switch



Contacts viewed from front of panel.

3-Position - Black Knob¹ - Spring Return C ← R

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return C ← R | 4 | None | CR104PSG84B | \$34.20 |
| Spring Return C ← R | 4 | 1NO-1NC | CR104PSG84B91 | \$52.20 |
| Spring Return C ← R | 4 | 2NO-2NC | CR104PSG84B92 | \$70.20 |
| Spring Return C ← R | 2 | None | CR104PSG82B | \$34.20 |
| Spring Return C ← R | 2 | 1NO-1NC | CR104PSG82B91 | \$52.20 |
| Spring Return C ← R | 2 | 2NO-2NC | CR104PSG82B92 | \$70.20 |
| Spring Return C ← R | 3 | None | CR104PSG83B | \$34.20 |
| Spring Return C ← R | 3 | 1NO-1NC | CR104PSG83B91 | \$52.20 |
| Spring Return C ← R | 3 | 2NO-2NC | CR104PSG83B92 | \$70.20 |
| Spring Return C ← R | 5 | None | CR104PSG85B | \$34.20 |
| Spring Return C ← R | 5 | 2NO-2NC | CR104PSG85B92 | \$70.20 |
| Spring Return C ← R | 6 | None | CR104PSG86B | \$34.20 |
| Spring Return C ← R | 6 | 2NO-2NC | CR104PSG86B92 | \$70.20 |

3-Position - Black Knob¹ - Spring Return L → C ← R

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|-------------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return L → C ← R | 4 | None | CR104PSG94B | \$34.20 |
| Spring Return L → C ← R | 4 | 1NO-1NC | CR104PSG94B91 | \$52.20 |
| Spring Return L → C ← R | 4 | 2NO-2NC | CR104PSG94B92 | \$70.20 |
| Spring Return L → C ← R | 2 | None | CR104PSG92B | \$34.20 |
| Spring Return L → C ← R | 2 | 1NO-1NC | CR104PSG92B91 | \$52.20 |
| Spring Return L → C ← R | 2 | 2NO-2NC | CR104PSG92B92 | \$70.20 |
| Spring Return L → C ← R | 3 | None | CR104PSG93B | \$34.20 |
| Spring Return L → C ← R | 3 | 1NO-1NC | CR104PSG93B91 | \$52.20 |
| Spring Return L → C ← R | 3 | 2NO-2NC | CR104PSG93B92 | \$70.20 |
| Spring Return L → C ← R | 5 | None | CR104PSG95B | \$34.20 |
| Spring Return L → C ← R | 5 | 2NO-2NC | CR104PSG95B92 | \$70.20 |
| Spring Return L → C ← R | 6 | None | CR104PSG96B | \$34.20 |
| Spring Return L → C ← R | 6 | 2NO-2NC | CR104PSG96B92 | \$70.20 |

¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

3-Position Selector Switches - Non-Illuminated

| Operator Position | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | | | | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-------|-------|-------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | | | |
| Contact State | O | O | X | NO | - | - | NO | L or R | NO | L or R | NO | Left | |
| | O | X | O | - | - | NC | L or R | NC | L or R | NC | Right | - | |
| | X | O | O | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| | X | X | O | - | - | - | - | - | - | - | NC | NO | Left |
| | O | X | X | - | - | - | - | - | - | - | NC | Right | |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

4-Position - Black Knob¹

| Release Type | 4 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 7 | None | CR104PSG47B ² | \$22.20 |
| Maintained | 7 | 2NO-2NC | CR104PSG47B92 ² | \$58.20 |

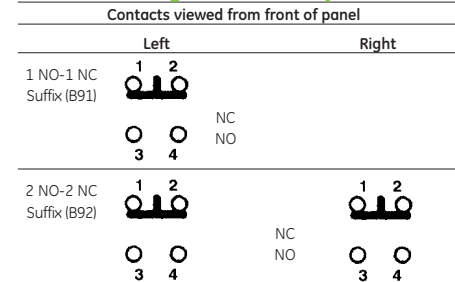
¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

²Two double-circuit contact blocks, mounted side-by-side, is standard arrangement. No more than two contact blocks, single and/or double, may be used with this operator.

4-Position Selector Switch - Non-Illuminated

| Operator Position | Cam #7 | | | | | |
|-------------------|-----------------------|------------------------------|---|---|----|-------|
| | Type of Contact Block | Mounting Location Left-Right | | | | |
| Contact State | X | O | O | O | NC | Left |
| | O | O | X | O | NO | Left |
| | O | O | O | X | NC | Right |
| | O | X | O | O | NO | Right |

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plans and Dimensions: See page 9-57

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Lever Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Lever-Operated Selector Switch

Units are supplied factory-assembled when ordered with contact block.

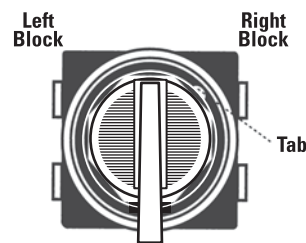
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position Chrome¹

| Release Type | 2 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 1 | None | CR104PSM21 | \$22.20 |
| Maintained | 1 | 1NO-1NC | CR104PSM21A91 | \$40.20 |
| Maintained | 1 | 2NO-2NC | CR104PSM21A92 | \$58.20 |
| Spring Return L → C | 2 | None | CR104PSM12 | \$34.20 |
| Spring Return L → C | 2 | 1NO-1NC | CR104PSM12A91 | \$52.20 |
| Spring Return L → C | 2 | 2NO-2NC | CR104PSM12A92 | \$70.20 |
| Spring Return R → C | 3 | None | CR104PSM63 | \$34.20 |
| Spring Return R → C | 3 | 1NO-1NC | CR104PSM63A91 | \$52.20 |
| Spring Return R → C | 3 | 2NO-2NC | CR104PSM63A92 | \$70.20 |

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM21B91.



Contacts viewed from front of panel.

2-Position Selector Switches - Non-Illuminated

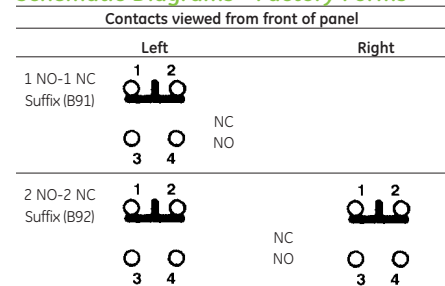
| Operator Position | Cam #1 | | Cam #2 | | Cam #3 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O - X | NO | L or R | - | - | - | - |
| X - O | NC | L or R | - | - | - | - |
| X O - | - | - | NO | L or R | - | - |
| O X - | - | - | NC | L or R | - | - |
| - O X | - | - | - | - | NO | L or R |
| - X O | - | - | - | - | NC | L or R |

- : This position is nonexistent or is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

3-Position Chrome¹ - Maintained

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 4 | None | CR104PSM34 | \$22.20 |
| Maintained | 4 | 1NO-1NC | CR104PSM34A91 | \$40.20 |
| Maintained | 4 | 2NO-2NC | CR104PSM34A92 | \$58.20 |
| Maintained | 2 | None | CR104PSM32 | \$22.20 |
| Maintained | 2 | 1NO-1NC | CR104PSM32A91 | \$40.20 |
| Maintained | 2 | 2NO-2NC | CR104PSM32A92 | \$58.20 |
| Maintained | 3 | None | CR104PSM33 | \$22.20 |
| Maintained | 3 | 1NO-1NC | CR104PSM33A91 | \$40.20 |
| Maintained | 3 | 2NO-2NC | CR104PSM33A92 | \$58.20 |
| Maintained | 5 | None | CR104PSM35 | \$22.20 |
| Maintained | 5 | 2NO-2NC | CR104PSM35A92 | \$58.20 |
| Maintained | 6 | None | CR104PSM36 | \$22.20 |
| Maintained | 6 | 2NO-2NC | CR104PSM36A92 | \$58.20 |

3-Position Chrome¹ - Spring Return L→C

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return L → C | 4 | None | CR104PSM74 | \$34.20 |
| Spring Return L → C | 4 | 1NO-1NC | CR104PSM74A91 | \$52.20 |
| Spring Return L → C | 4 | 2NO-2NC | CR104PSM74A92 | \$70.20 |
| Spring Return L → C | 2 | None | CR104PSM72 | \$34.20 |
| Spring Return L → C | 2 | 1NO-1NC | CR104PSM72A91 | \$52.20 |
| Spring Return L → C | 2 | 2NO-2NC | CR104PSM72A92 | \$70.20 |
| Spring Return L → C | 3 | None | CR104PSM73 | \$34.20 |
| Spring Return L → C | 3 | 1NO-1NC | CR104PSM73A91 | \$52.20 |
| Spring Return L → C | 3 | 2NO-2NC | CR104PSM73A92 | \$70.20 |
| Spring Return L → C | 5 | None | CR104PSM75 | \$34.20 |
| Spring Return L → C | 5 | 2NO-2NC | CR104PSM75A92 | \$70.20 |
| Spring Return L → C | 6 | None | CR104PSM76 | \$34.20 |
| Spring Return L → C | 6 | 2NO-2NC | CR104PSM76A92 | \$70.20 |

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM32B91.

3-Position Selector Switches - Non-Illuminated

| Operator Position | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O O X | NO | L or R | - | - | NO | L or R | NO | L or R | NO | Left |
| O X O | - | - | NC | L or R | NC | L or R | NC | Right | - | - |
| X O O | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| X X O | - | - | - | - | - | - | - | - | NC | Left |
| O X X | - | - | - | - | - | - | - | - | NC | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

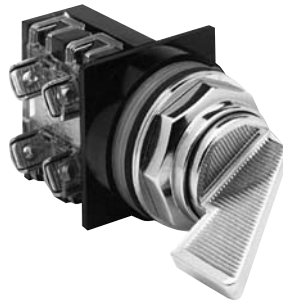
CR104P

Lever Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

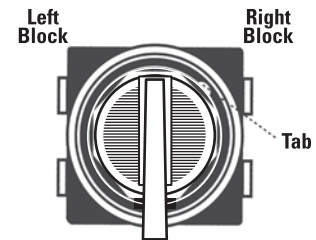
Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Lever-Operated Selector Switch



Contacts viewed from front of panel.

3-Position Chrome¹ - Spring Return C←R

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return C ← R | 4 | None | CR104PSM84 | \$34.20 |
| Spring Return C ← R | 4 | 1NO-1NC | CR104PSM84A91 | \$52.20 |
| Spring Return C ← R | 4 | 2NO-2NC | CR104PSM84A92 | \$70.20 |
| Spring Return C ← R | 2 | None | CR104PSM82 | \$34.20 |
| Spring Return C ← R | 2 | 1NO-1NC | CR104PSM82A91 | \$52.20 |
| Spring Return C ← R | 2 | 2NO-2NC | CR104PSM82A92 | \$70.20 |
| Spring Return C ← R | 3 | None | CR104PSM83 | \$34.20 |
| Spring Return C ← R | 3 | 1NO-1NC | CR104PSM83A91 | \$52.20 |
| Spring Return C ← R | 3 | 2NO-2NC | CR104PSM83A92 | \$70.20 |
| Spring Return C ← R | 5 | None | CR104PSM85 | \$34.20 |
| Spring Return C ← R | 5 | 2NO-2NC | CR104PSM85A92 | \$70.20 |
| Spring Return C ← R | 6 | None | CR104PSM86 | \$34.20 |

3-Position Chrome¹ - Spring Return L→C←R

| Release Type | 3 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|-------------------------|---------------------|-----------------------|-----------------------------|--------------------|
| Spring Return C ← R | 6 | 2NO-2NC | CR104PSM86A92 | \$70.20 |
| Spring Return L → C ← R | 4 | None | CR104PSM94 | \$34.20 |
| Spring Return L → C ← R | 4 | 1NO-1NC | CR104PSM94A91 | \$52.20 |
| Spring Return L → C ← R | 4 | 2NO-2NC | CR104PSM94A92 | \$70.20 |
| Spring Return L → C ← R | 2 | None | CR104PSM92 | \$34.20 |
| Spring Return L → C ← R | 2 | 1NO-1NC | CR104PSM92A91 | \$52.20 |
| Spring Return L → C ← R | 2 | 2NO-2NC | CR104PSM92A92 | \$70.20 |
| Spring Return L → C ← R | 3 | None | CR104PSM93 | \$34.20 |
| Spring Return L → C ← R | 3 | 1NO-1NC | CR104PSM93A91 | \$52.20 |
| Spring Return L → C ← R | 3 | 2NO-2NC | CR104PSM93A92 | \$70.20 |
| Spring Return L → C ← R | 5 | None | CR104PSM95 | \$34.20 |
| Spring Return L → C ← R | 5 | 2NO-2NC | CR104PSM95A92 | \$70.20 |
| Spring Return L → C ← R | 6 | None | CR104PSM96 | \$34.20 |
| Spring Return L → C ← R | 6 | 2NO-2NC | CR104PSM96A92 | \$70.20 |

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM32B91.

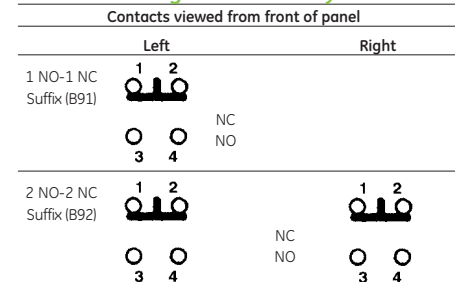
3-Position Selector Switches - Non-Illuminated

| Operator Position | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| ○ ○ X | NO | L or R | - | - | NO | L or R | NO | L or R | NO | Left |
| ○ X ○ | - | - | NC | L or R | NC | L or R | NC | Right | - | - |
| X ○ ○ | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| X X ○ | - | - | - | - | - | - | - | - | NC | Left |
| ○ X X | - | - | - | - | - | - | - | - | NC | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

4-Position Chrome¹

| Release Type | 4 Position Cam Code | Contact Configuration | Product Number ¹ | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-----------------------------|--------------------|
| Maintained | 7 | None | CR104PSM47 | \$22.20 |
| Maintained | 9 | 2NO-2NC | CR104PSM47A92 | \$58.20 |

4-Position Selector Switch - Non-Illuminated

| Operator Position | Cam #7 | | | |
|-------------------|-----------------------|------------------------------|--|--|
| | Type of Contact Block | Mounting Location Left-Right | | |
| X ○ ○ ○ | NC | Left | | |
| ○ ○ X ○ | NO | Left | | |
| ○ ○ ○ X | NC | Right | | |
| ○ X ○ ○ | NO | Right | | |



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plans and Dimensions: See page 9-57

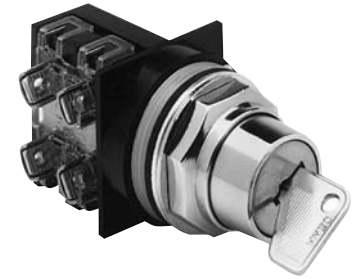
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Key Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position - Key Operated

| Release Type | 2 Position Cam Code | Contact Configuration | Key Removal | Product Number | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|----------------|-------------------------------|--------------------|
| Maintained | 1 | None | Left | CR104PSK21A00L | \$58.20 |
| Maintained | 1 | None | Right | CR104PSK21A00R | \$58.20 |
| Maintained | 1 | None | Left and Right | CR104PSK21A00M | \$58.20 |
| Maintained | 1 | 1NO-1NC | Left | CR104PSK21A91L | \$76.20 |
| Maintained | 1 | 1NO-1NC | Right | CR104PSK21A91R | \$76.20 |
| Maintained | 1 | 1NO-1NC | Left and Right | CR104PSK21A91M | \$76.20 |
| Maintained | 1 | 1NO-1NC | Left | CR104PSK21A91L51 ¹ | \$88.20 |
| Maintained | 1 | 1NO-1NC | Right | CR104PSK21A91R51 ¹ | \$88.20 |
| Maintained | 1 | 1NO-1NC | Left and Right | CR104PSK21A91M51 ¹ | \$88.20 |
| Maintained | 1 | 2NO-2NC | Left | CR104PSK21A92L | \$94.20 |
| Maintained | 1 | 2NO-2NC | Right | CR104PSK21A92R | \$94.20 |
| Maintained | 1 | 2NO-2NC | Left and Right | CR104PSK21A92M | \$94.20 |
| Spring Return L → C | 2 | None | Center | CR104PSK12A00C | \$70.20 |
| Spring Return L → C | 2 | 1NO-1NC | Center | CR104PSK12A91C | \$88.20 |
| Spring Return L → C | 2 | 1NO-1NC | Center | CR104PSK12A91C51 ¹ | \$100.20 |
| Spring Return L → C | 2 | 2NO-2NC | Center | CR104PSK12A92C | \$106.20 |
| Spring Return R → C | 3 | None | Center | CR104PSK63A00C | \$70.20 |
| Spring Return R → C | 3 | 1NO-1NC | Center | CR104PSK63A91C | \$88.20 |
| Spring Return R → C | 3 | 1NO-1NC | Center | CR104PSK63A91C51 ¹ | \$100.20 |
| Spring Return R → C | 3 | 2NO-2NC | Center | CR104PSK63A92C | \$106.20 |

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Energy Representative.

2-Position Selector Switches - Key Operated

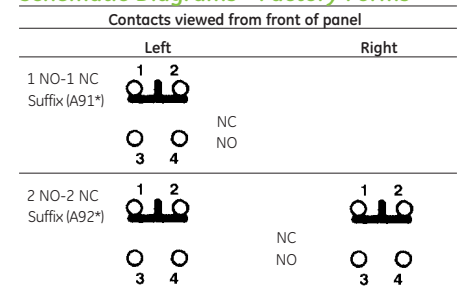
| Operator Position | Contact State | Cam #1 | | Cam #2 | | Cam #3 | |
|-------------------|---------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O - X | | NO | L or R | - | | - | |
| X - O | | NC | L or R | - | | - | |
| X O - | | - | | NO | L or R | - | |
| O X - | | - | | NC | L or R | - | |
| - O X | | - | | - | | NO | L or R |
| - X O | | - | | - | | NC | L or R |

- : This position is nonexistent or is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
 *Key removal code.



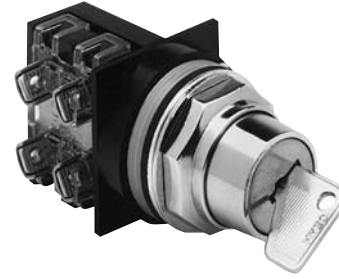
Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Key Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Maintained - Key Operated

| Release Type | 3 Position Cam Code | Contact Configuration | Key Removal | Product Number | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-------------------------|-------------------------------|--------------------|
| Maintained | 4 | None | Left | CR104PSK34A00L | \$58.20 |
| Maintained | 4 | None | Center | CR104PSK34A00C | \$58.20 |
| Maintained | 4 | None | Right | CR104PSK34A00R | \$58.20 |
| Maintained | 4 | None | Left, Right, and Center | CR104PSK34A00W | \$58.20 |
| Maintained | 4 | 1NO-1NC | Left | CR104PSK34A91L | \$76.20 |
| Maintained | 4 | 1NO-1NC | Center | CR104PSK34A91C | \$76.20 |
| Maintained | 4 | 1NO-1NC | Right | CR104PSK34A91R | \$76.20 |
| Maintained | 4 | 1NO-1NC | Left, Right, and Center | CR104PSK34A91W | \$76.20 |
| Maintained | 4 | 1NO-1NC | Left | CR104PSK34A91L51 ¹ | \$88.20 |
| Maintained | 4 | 1NO-1NC | Center | CR104PSK34A91C51 ¹ | \$88.20 |
| Maintained | 4 | 1NO-1NC | Right | CR104PSK34A91R51 ¹ | \$88.20 |
| Maintained | 4 | 1NO-1NC | Left, Right, and Center | CR104PSK34A91W51 ¹ | \$88.20 |
| Maintained | 4 | 2NO-2NC | Left | CR104PSK34A92L | \$94.20 |
| Maintained | 4 | 2NO-2NC | Center | CR104PSK34A92C | \$94.20 |
| Maintained | 4 | 2NO-2NC | Right | CR104PSK34A92R | \$94.20 |
| Maintained | 4 | 2NO-2NC | Left, Right, and Center | CR104PSK34A92W | \$94.20 |
| Maintained | 2 | None | Left | CR104PSK32A00L | \$58.20 |
| Maintained | 2 | None | Center | CR104PSK32A00C | \$58.20 |
| Maintained | 2 | None | Right | CR104PSK32A00R | \$58.20 |
| Maintained | 2 | None | Left, Right, and Center | CR104PSK32A00W | \$58.20 |
| Maintained | 2 | 1NO-1NC | Left | CR104PSK32A91L | \$76.20 |
| Maintained | 2 | 1NO-1NC | Center | CR104PSK32A91C | \$76.20 |
| Maintained | 2 | 1NO-1NC | Right | CR104PSK32A91R | \$76.20 |
| Maintained | 2 | 1NO-1NC | Left, Right, and Center | CR104PSK32A91W | \$76.20 |
| Maintained | 2 | 2NO-2NC | Left | CR104PSK32A92L | \$94.20 |
| Maintained | 2 | 2NO-2NC | Center | CR104PSK32A92C | \$94.20 |
| Maintained | 2 | 2NO-2NC | Right | CR104PSK32A92R | \$94.20 |
| Maintained | 2 | 2NO-2NC | Left, Right, and Center | CR104PSK32A92W | \$94.20 |

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Energy Representative.

3-Position Maintained - Key Operated (continued)

| Release Type | 3 Position Cam Code | Contact Configuration | Key Removal | Product Number ¹ | List Price GO-10P1 |
|--------------|---------------------|-----------------------|-------------------------|-----------------------------|--------------------|
| Maintained | 3 | None | Left | CR104PSK33A00L | \$58.20 |
| Maintained | 3 | None | Center | CR104PSK33A00C | \$58.20 |
| Maintained | 3 | None | Right | CR104PSK33A00R | \$58.20 |
| Maintained | 3 | None | Left, Right, and Center | CR104PSK33A00W | \$58.20 |
| Maintained | 3 | 1NO-1NC | Left | CR104PSK33A91L | \$76.20 |
| Maintained | 3 | 1NO-1NC | Center | CR104PSK33A91C | \$76.20 |
| Maintained | 3 | 1NO-1NC | Right | CR104PSK33A91R | \$76.20 |
| Maintained | 3 | 1NO-1NC | Left, Right, and Center | CR104PSK33A91W | \$76.20 |
| Maintained | 3 | 2NO-2NC | Left | CR104PSK33A92L | \$94.20 |
| Maintained | 3 | 2NO-2NC | Center | CR104PSK33A92C | \$94.20 |
| Maintained | 3 | 2NO-2NC | Right | CR104PSK33A92R | \$94.20 |
| Maintained | 3 | 2NO-2NC | Left, Right, and Center | CR104PSK33A92W | \$94.20 |
| Maintained | 5 | None | Left | CR104PSK35A00L | \$58.20 |
| Maintained | 5 | None | Center | CR104PSK35A00C | \$58.20 |
| Maintained | 5 | None | Right | CR104PSK35A00R | \$58.20 |
| Maintained | 5 | None | Left, Right, and Center | CR104PSK35A00W | \$58.20 |
| Maintained | 5 | 2NO-2NC | Left | CR104PSK35A92L | \$94.20 |
| Maintained | 5 | 2NO-2NC | Center | CR104PSK35A92C | \$94.20 |
| Maintained | 5 | 2NO-2NC | Right | CR104PSK35A92R | \$94.20 |
| Maintained | 5 | 2NO-2NC | Left, Right, and Center | CR104PSK35A92W | \$94.20 |
| Maintained | 6 | None | Left | CR104PSK36A00L | \$58.20 |
| Maintained | 6 | None | Center | CR104PSK36A00C | \$58.20 |
| Maintained | 6 | None | Right | CR104PSK36A00R | \$58.20 |
| Maintained | 6 | None | Left, Right, and Center | CR104PSK36A00W | \$58.20 |
| Maintained | 6 | 2NO-2NC | Left | CR104PSK36A92L | \$94.20 |
| Maintained | 6 | 2NO-2NC | Center | CR104PSK36A92C | \$94.20 |
| Maintained | 6 | 2NO-2NC | Right | CR104PSK36A92R | \$94.20 |
| Maintained | 6 | 2NO-2NC | Left, Right, and Center | CR104PSK36A92W | \$94.20 |

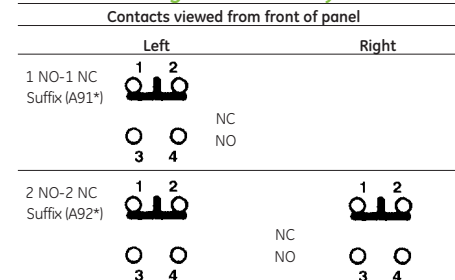
3-Position Selector Switches - Key Operated

| Operator Position | Type of Contact Block | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|-------|
| | | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | |
| ○ | ○ | X | NO | L or R | - | - | NO | L or R | NO | L or R | NO | Left |
| ○ | X | ○ | - | - | NC | L or R | NC | L or R | NC | Right | - | - |
| X | ○ | ○ | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| X | X | ○ | - | - | - | - | - | - | - | - | NC | Left |
| ○ | X | X | - | - | - | - | - | - | - | - | NC | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Key removal code.



Extra Keys: See pages 9-39
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

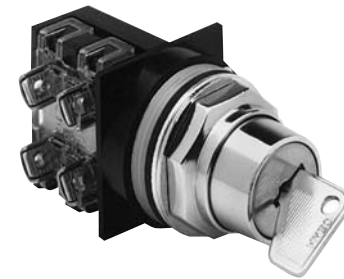
Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Key Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position - Key Operated Spring Return L→C

| Release Type | 3 Position Cam Code | Contact Configuration | Key Removal | Product Number | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|------------------|-----------------------------|--------------------|
| Spring Return L → C | 4 | None | Center | CR104PSK74A00C | \$70.20 |
| Spring Return L → C | 4 | None | Right | CR104PSK74A00R | \$70.20 |
| Spring Return L → C | 4 | None | Center and Right | CR104PSK74A00Q | \$70.20 |
| Spring Return L → C | 4 | 1NO-1NC | Center | CR104PSK74A91C | \$88.20 |
| Spring Return L → C | 4 | 1NO-1NC | Right | CR104PSK74A91R | \$88.20 |
| Spring Return L → C | 4 | 1NO-1NC | Center and Right | CR104PSK74A91Q | \$88.20 |
| Spring Return L → C | 4 | 1NO-1NC | Center | CR104PSK74A91C ¹ | \$100.20 |
| Spring Return L → C | 4 | 2NO-2NC | Center | CR104PSK74A92C | \$106.20 |
| Spring Return L → C | 4 | 2NO-2NC | Right | CR104PSK74A92R | \$106.20 |
| Spring Return L → C | 4 | 2NO-2NC | Center and Right | CR104PSK74A92Q | \$106.20 |
| Spring Return L → C | 2 | None | Center | CR104PSK72A00C | \$70.20 |
| Spring Return L → C | 2 | None | Right | CR104PSK72A00R | \$70.20 |
| Spring Return L → C | 2 | None | Center and Right | CR104PSK72A00Q | \$70.20 |
| Spring Return L → C | 2 | 1NO-1NC | Center | CR104PSK72A91C | \$88.20 |
| Spring Return L → C | 2 | 1NO-1NC | Right | CR104PSK72A91R | \$88.20 |
| Spring Return L → C | 2 | 1NO-1NC | Center and Right | CR104PSK72A91Q | \$88.20 |
| Spring Return L → C | 2 | 2NO-2NC | Center | CR104PSK72A92C | \$106.20 |
| Spring Return L → C | 2 | 2NO-2NC | Right | CR104PSK72A92R | \$106.20 |
| Spring Return L → C | 2 | 2NO-2NC | Center and Right | CR104PSK72A92Q | \$106.20 |

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Energy Representative.

3-Position - Key Operated Spring Return L→C (continued)

| Release Type | 3 Position Cam Code | Contact Configuration | Key Removal | Product Number | List Price GO-10P1 |
|---------------------|---------------------|-----------------------|------------------|----------------|--------------------|
| Spring Return L → C | 3 | None | Center | CR104PSK73A00C | \$70.20 |
| Spring Return L → C | 3 | None | Right | CR104PSK73A00R | \$70.20 |
| Spring Return L → C | 3 | None | Center and Right | CR104PSK73A00Q | \$70.20 |
| Spring Return L → C | 3 | 1NO-1NC | Center | CR104PSK73A91C | \$88.20 |
| Spring Return L → C | 3 | 1NO-1NC | Right | CR104PSK73A91R | \$88.20 |
| Spring Return L → C | 3 | 1NO-1NC | Center and Right | CR104PSK73A91Q | \$88.20 |
| Spring Return L → C | 3 | 2NO-2NC | Center | CR104PSK73A92C | \$106.20 |
| Spring Return L → C | 3 | 2NO-2NC | Right | CR104PSK73A92R | \$106.20 |
| Spring Return L → C | 3 | 2NO-2NC | Center and Right | CR104PSK73A92Q | \$106.20 |
| Spring Return L → C | 5 | None | Center | CR104PSK75A00C | \$70.20 |
| Spring Return L → C | 5 | None | Right | CR104PSK75A00R | \$70.20 |
| Spring Return L → C | 5 | None | Center and Right | CR104PSK75A00Q | \$70.20 |
| Spring Return L → C | 5 | 2NO-2NC | Center | CR104PSK75A92C | \$70.20 |
| Spring Return L → C | 5 | 2NO-2NC | Right | CR104PSK75A92R | \$70.20 |
| Spring Return L → C | 5 | 2NO-2NC | Center and Right | CR104PSK75A92Q | \$70.20 |
| Spring Return L → C | 6 | None | Center | CR104PSK76A00C | \$70.20 |
| Spring Return L → C | 6 | None | Right | CR104PSK76A00R | \$70.20 |
| Spring Return L → C | 6 | None | Center and Right | CR104PSK76A00Q | \$70.20 |
| Spring Return L → C | 6 | 2NO-2NC | Center | CR104PSK76A92C | \$106.20 |
| Spring Return L → C | 6 | 2NO-2NC | Right | CR104PSK76A92R | \$106.20 |
| Spring Return L → C | 6 | 2NO-2NC | Center and Right | CR104PSK76A92Q | \$106.20 |

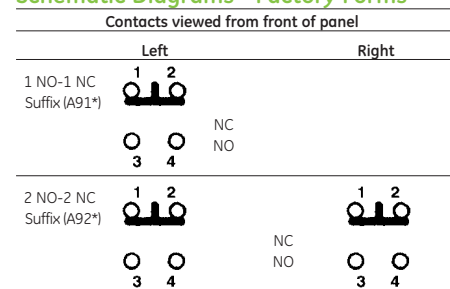
3-Position Selector Switches - Key Operated

| Operator Position | Type of Contact Block | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|-------|
| | | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | |
| O | O | X | NO | L or R | - | - | NO | L or R | NO | L or R | NO | Left |
| O | X | O | - | - | NC | L or R | NC | L or R | NC | Right | - | - |
| X | O | O | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| X | X | O | - | - | - | - | - | - | - | - | NC | Left |
| O | X | X | - | - | - | - | - | - | - | - | NC | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
 *Key removal code.

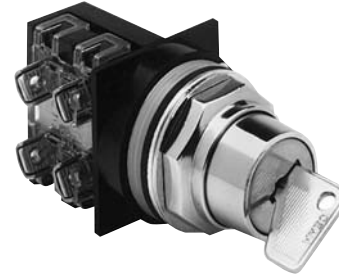


Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Key Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position - Key Operated Spring Return C ← R

| Release Type | 3 Position | | | Product Number | List Price GO-10P1 |
|---------------------|------------|-----------------------|-----------------|-------------------------------|-----------------------|
| | Cam Code | Contact Configuration | Key Removal | | |
| Spring Return C ← R | 4 | None | Left | CR104PSK84A00L | \$70.20 |
| Spring Return C ← R | 4 | None | Center | CR104PSK84A00C | \$70.20 |
| Spring Return C ← R | 4 | None | Left and Center | CR104PSK84A00D | \$70.20 |
| Spring Return C ← R | 4 | 1NO-1NC | Left | CR104PSK84A91L | \$88.20 |
| Spring Return C ← R | 4 | 1NO-1NC | Center | CR104PSK84A91C | \$88.20 |
| Spring Return C ← R | 4 | 1NO-1NC | Left and Center | CR104PSK84A91D | \$88.20 |
| Spring Return C ← R | 4 | 1NO-1NC | Center | CR104PSK84A91C51 ¹ | \$100.20 |
| Spring Return C ← R | 4 | 2NO-2NC | Left | CR104PSK84A92L | \$106.20 |
| Spring Return C ← R | 4 | 2NO-2NC | Center | CR104PSK84A92C | \$106.20 |
| Spring Return C ← R | 4 | 2NO-2NC | Left and Center | CR104PSK84A92D | \$106.20 |
| Spring Return C ← R | 2 | None | Left | CR104PSK82A00L | \$70.20 |
| Spring Return C ← R | 2 | None | Center | CR104PSK82A00C | \$70.20 |
| Spring Return C ← R | 2 | None | Left and Center | CR104PSK82A00D | \$70.20 |
| Spring Return C ← R | 2 | 1NO-1NC | Left | CR104PSK82A91L | \$88.20 |
| Spring Return C ← R | 2 | 1NO-1NC | Center | CR104PSK82A91C | \$88.20 |
| Spring Return C ← R | 2 | 1NO-1NC | Left and Center | CR104PSK82A91D | \$88.20 |
| Spring Return C ← R | 2 | 2NO-2NC | Left | CR104PSK82A92L | \$106.20 |
| Spring Return C ← R | 2 | 2NO-2NC | Center | CR104PSK82A92C | \$106.20 |
| Spring Return C ← R | 2 | 2NO-2NC | Left and Center | CR104PSK82A92D | \$106.20 |
| Spring Return C ← R | 3 | None | Left | CR104PSK83A00L | \$70.20 |
| Spring Return C ← R | 3 | None | Center | CR104PSK83A00C | \$70.20 |
| Spring Return C ← R | 3 | None | Left and Center | CR104PSK83A00D | \$70.20 |
| Spring Return C ← R | 3 | 1NO-1NC | Left | CR104PSK83A91L | \$88.20 |
| Spring Return C ← R | 3 | 1NO-1NC | Center | CR104PSK83A91C | \$88.20 |
| Spring Return C ← R | 3 | 1NO-1NC | Left and Center | CR104PSK83A91D | \$88.20 |
| Spring Return C ← R | 3 | 2NO-2NC | Left | CR104PSK83A92L | \$106.20 |
| Spring Return C ← R | 3 | 2NO-2NC | Center | CR104PSK83A92C | \$106.20 |
| Spring Return C ← R | 3 | 2NO-2NC | Left and Center | CR104PSK83A92D | \$106.20 |
| Spring Return C ← R | 5 | None | Left | CR104PSK85A00L | \$70.20 |
| Spring Return C ← R | 5 | None | Center | CR104PSK85A00C | \$70.20 |
| Spring Return C ← R | 5 | None | Left and Center | CR104PSK85A00D | \$70.20 |
| Spring Return C ← R | 5 | 2NO-2NC | Left | CR104PSK85A92L | \$106.20 |
| Spring Return C ← R | 5 | 2NO-2NC | Center | CR104PSK85A92C | \$106.20 |
| Spring Return C ← R | 5 | 2NO-2NC | Left and Center | CR104PSK85A92D | \$106.20 |
| Spring Return C ← R | 6 | None | Left | CR104PSK86A00L | \$70.20 |
| Spring Return C ← R | 6 | None | Center | CR104PSK86A00C | \$70.20 |
| Spring Return C ← R | 6 | None | Left and Center | CR104PSK86A00D | \$70.20 |
| Spring Return C ← R | 6 | 2NO-2NC | Left | CR104PSK86A92L | \$106.20 |
| Spring Return C ← R | 6 | 2NO-2NC | Center | CR104PSK86A92C | \$106.20 |
| Spring Return C ← R | 6 | 2NO-2NC | Left and Center | CR104PSK86A92D | \$106.20 |

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Energy Representative.

3-Position - Key Operated Spring Return L → C ← R

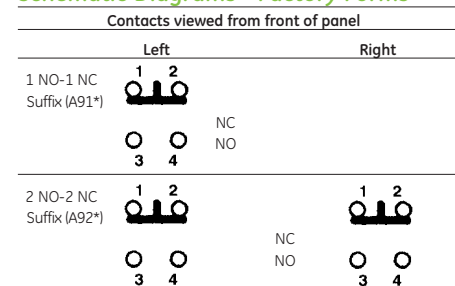
| Release Type | 3 Position | | | Product Number | List Price GO-10P1 |
|-------------------------|------------|-----------------------|-------------|-------------------------------|-----------------------|
| | Cam Code | Contact Configuration | Key Removal | | |
| Spring Return L → C ← R | 4 | None | Center | CR104PSK94A00C | \$70.20 |
| Spring Return L → C ← R | 4 | 1NO-1NC | Center | CR104PSK94A91C | \$88.20 |
| Spring Return L → C ← R | 4 | 1NO-1NC | Center | CR104PSK94A91C51 ¹ | \$100.20 |
| Spring Return L → C ← R | 4 | 2NO-2NC | Center | CR104PSK94A92C | \$106.20 |
| Spring Return L → C ← R | 2 | None | Center | CR104PSK92A00C | \$70.20 |
| Spring Return L → C ← R | 2 | 1NO-1NC | Center | CR104PSK92A91C | \$88.20 |
| Spring Return L → C ← R | 2 | 2NO-2NC | Center | CR104PSK92A92C | \$106.20 |
| Spring Return L → C ← R | 3 | None | Center | CR104PSK93A00C | \$70.20 |
| Spring Return L → C ← R | 3 | 1NO-1NC | Center | CR104PSK93A91C | \$88.20 |
| Spring Return L → C ← R | 3 | 2NO-2NC | Center | CR104PSK93A92C | \$106.20 |
| Spring Return L → C ← R | 5 | None | Center | CR104PSK95A00C | \$70.20 |
| Spring Return L → C ← R | 5 | 2NO-2NC | Center | CR104PSK95A92C | \$106.20 |
| Spring Return L → C ← R | 6 | None | Center | CR104PSK96A00C | \$70.20 |
| Spring Return L → C ← R | 6 | 2NO-2NC | Center | CR104PSK96A92C | \$106.20 |

3-Position Selector Switches - Key Operated

| Operator Position | Cam #4 | | Cam #2 | | Cam #3 | | Cam #5 | | Cam #6 | | | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-------|-------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | | |
| O | O | X | NO | L or R | - | - | NO | L or R | NO | L or R | NO | Left |
| | X | O | - | - | NC | L or R | NC | L or R | NC | Right | - | - |
| X | O | O | NC | L or R | NO | L or R | - | - | NC | Left | NO | Right |
| | X | X | - | - | - | - | - | - | - | NC | Left | Left |
| O | X | X | - | - | - | - | - | - | - | NC | Right | Right |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Key removal code.



Extra Keys: See pages 9-39
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

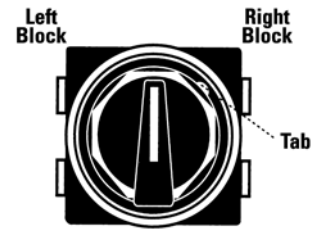
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Energy Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Knob Operated



Contacts viewed from front of panel.

2-Position - Maintained

| 2 Position Cam Code | Contact Configuration | Power Supply Type | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|-------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 1 | None | Transformer | 120V | Incand., 6V, #755 | Red | CR104PST21R00S2 | \$70.20 |
| 1 | None | Transformer | 120V | Incand., 6V, #755 | Green | CR104PST21G00S2 | \$70.20 |
| 1 | None | Transformer | 120V | Incand., 6V, #755 | Yellow | CR104PST21E00S2 | \$70.20 |
| 1 | None | Transformer | 120V | Incand., 6V, #755 | No Lens | CR104PST21A00S2 ¹ | \$66.00 |
| 1 | 1NO-1NC | Transformer | 120V | Incand., 6V, #755 | Red | CR104PST21R11S2 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 120V | Incand., 6V, #755 | Green | CR104PST21G11S2 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 120V | Incand., 6V, #755 | Yellow | CR104PST21E11S2 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 120V | Incand., 6V, #755 | No Lens | CR104PST21A11S2 ¹ | \$84.00 |
| 1 | None | Transformer | 240V | Incand., 6V, #755 | Red | CR104PST21R00S3 | \$70.20 |
| 1 | None | Transformer | 240V | Incand., 6V, #755 | Green | CR104PST21G00S3 | \$70.20 |
| 1 | None | Transformer | 240V | Incand., 6V, #755 | Yellow | CR104PST21E00S3 | \$70.20 |
| 1 | None | Transformer | 240V | Incand., 6V, #755 | No Lens | CR104PST21A00S3 ¹ | \$66.00 |
| 1 | 1NO-1NC | Transformer | 240V | Incand., 6V, #755 | Red | CR104PST21R11S3 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 240V | Incand., 6V, #755 | Green | CR104PST21G11S3 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 240V | Incand., 6V, #755 | Yellow | CR104PST21E11S3 | \$88.20 |
| 1 | 1NO-1NC | Transformer | 240V | Incand., 6V, #755 | No Lens | CR104PST21A11S3 ¹ | \$84.00 |
| 1 | None | Full Voltage | 6V | Incand., 6V, #755 | Red | CR104PSL21R00S6 | \$58.20 |
| 1 | None | Full Voltage | 6V | Incand., 6V, #755 | Green | CR104PSL21G00S6 | \$58.20 |
| 1 | None | Full Voltage | 6V | Incand., 6V, #755 | Yellow | CR104PSL21E00S6 | \$58.20 |
| 1 | None | Full Voltage | 6V | Incand., 6V, #755 | No Lens | CR104PSL21A00S6 ¹ | \$54.00 |
| 1 | 1NO-1NC | Full Voltage | 6V | Incand., 6V, #755 | Red | CR104PSL21R11S6 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 6V | Incand., 6V, #755 | Green | CR104PSL21G11S6 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 6V | Incand., 6V, #755 | Yellow | CR104PSL21E11S6 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 6V | Incand., 6V, #755 | No Lens | CR104PSL21A11S6 ¹ | \$72.00 |
| 1 | None | Full Voltage | 24V | Incand., 24V, #1819 | Red | CR104PSL21R00S8 | \$58.20 |
| 1 | None | Full Voltage | 24V | Incand., 24V, #1819 | Green | CR104PSL21G00S8 | \$58.20 |
| 1 | None | Full Voltage | 24V | Incand., 24V, #1819 | Yellow | CR104PSL21E00S8 | \$58.20 |
| 1 | None | Full Voltage | 24V | Incand., 24V, #1819 | No Lens | CR104PSL21A00S8 ¹ | \$54.00 |
| 1 | 1NO-1NC | Full Voltage | 24V | Incand., 24V, #1819 | Red | CR104PSL21R11S8 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 24V | Incand., 24V, #1819 | Green | CR104PSL21G11S8 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 24V | Incand., 24V, #1819 | Yellow | CR104PSL21E11S8 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 24V | Incand., 24V, #1819 | No Lens | CR104PSL21A11S8 ¹ | \$72.00 |
| 1 | None | Full Voltage | 120V | Incand., 130V | Red | CR104PSL21R00S2 | \$58.20 |
| 1 | None | Full Voltage | 120V | Incand., 130V | Green | CR104PSL21G00S2 | \$58.20 |
| 1 | None | Full Voltage | 120V | Incand., 130V | Yellow | CR104PSL21E00S2 | \$58.20 |
| 1 | None | Full Voltage | 120V | Incand., 130V | No Lens | CR104PSL21A00S2 ¹ | \$54.00 |
| 1 | 1NO-1NC | Full Voltage | 120V | Incand., 130V | Red | CR104PSL21R11S2 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 120V | Incand., 130V | Green | CR104PSL21G11S2 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 120V | Incand., 130V | Yellow | CR104PSL21E11S2 | \$76.20 |
| 1 | 1NO-1NC | Full Voltage | 120V | Incand., 130V | No Lens | CR104PSL21A11S2 ¹ | \$72.00 |

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

2-Position Selector Switches - Illuminated

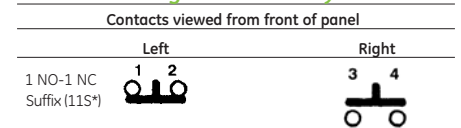
| Operator Position | Cam #1 | | Type of Contact Block | Mounting Location Left/Right |
|-------------------|--------|---|-----------------------|------------------------------|
| | O | X | | |
| | O | X | NO | Right |
| Contact State | X | O | NC | Left |

- : This position is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Voltage digit.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

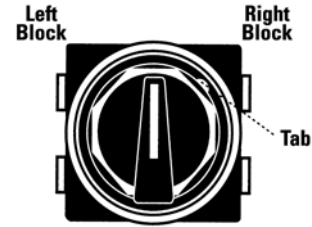
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Energy Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Transformer



Contacts viewed from front of panel.

3-Position Maintained Transformer Type

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 4 | None | 120V | Incand., 6V, #755 | Red | CR104PST34R00S2 | \$70.20 |
| 4 | None | 120V | Incand., 6V, #755 | Green | CR104PST34G00S2 | \$70.20 |
| 4 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST34E00S2 | \$70.20 |
| 4 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST34A00S2 ¹ | \$66.00 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST34R11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST34G11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST34E11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST34A11S2 ¹ | \$84.00 |
| 4 | None | 240V | Incand., 6V, #755 | Red | CR104PST34R00S3 | \$70.20 |
| 4 | None | 240V | Incand., 6V, #755 | Green | CR104PST34G00S3 | \$70.20 |
| 4 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST34E00S3 | \$70.20 |
| 4 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST34A00S3 ¹ | \$66.00 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST34R11S3 | \$88.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST34G11S3 | \$88.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST34E11S3 | \$88.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST34A11S3 ¹ | \$84.00 |
| 2 | None | 120V | Incand., 6V, #755 | Red | CR104PST32R00S2 | \$70.20 |
| 2 | None | 120V | Incand., 6V, #755 | Green | CR104PST32G00S2 | \$70.20 |
| 2 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST32E00S2 | \$70.20 |
| 2 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST32A00S2 ¹ | \$66.00 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST32R11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST32G11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST32E11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST32A11S2 ¹ | \$84.00 |
| 2 | None | 240V | Incand., 6V, #755 | Red | CR104PST32R00S3 | \$70.20 |
| 2 | None | 240V | Incand., 6V, #755 | Green | CR104PST32G00S3 | \$70.20 |
| 2 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST32E00S3 | \$70.20 |
| 2 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST32A00S3 ¹ | \$66.00 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST32R11S3 | \$88.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST32G11S3 | \$88.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST32E11S3 | \$88.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST32A11S3 ¹ | \$84.00 |

3-Position Maintained Transformer Type (continued)

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 6 | None | 120V | Incand., 6V, #755 | Red | CR104PST36R00S2 | \$70.20 |
| 6 | None | 120V | Incand., 6V, #755 | Green | CR104PST36G00S2 | \$70.20 |
| 6 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST36E00S2 | \$70.20 |
| 6 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST36A00S2 ¹ | \$66.00 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST36R11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST36G11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST36E11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST36A11S2 ¹ | \$84.00 |
| 6 | None | 240V | Incand., 6V, #755 | Red | CR104PST36R00S3 | \$70.20 |
| 6 | None | 240V | Incand., 6V, #755 | Green | CR104PST36G00S3 | \$70.20 |
| 6 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST36E00S3 | \$70.20 |
| 6 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST36A00S3 ¹ | \$66.00 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST36R11S3 | \$88.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST36G11S3 | \$88.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST36E11S3 | \$88.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST36A11S3 ¹ | \$84.00 |

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

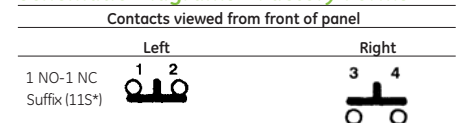
²All lamps miniature bayonet base.

3-Position Selector Switches - Illuminated

| Operator Position | Cam #2 | | Cam #4 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| ⊙ | O | X | - | - | NO | Right |
| ⊙ | X | O | NC | Left | - | - |
| ⊙ | X | O | NO | Right | NC | Left |
| ⊙ | X | X | - | - | - | - |
| ⊙ | X | X | - | - | - | - |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Voltage digit.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Energy Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Maintained Full Voltage Type

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 4 | None | 6V | Incand., 6V, #755 | Red | CR104PSL34R00S6 | \$58.20 |
| 4 | None | 6V | Incand., 6V, #755 | Green | CR104PSL34G00S6 | \$58.20 |
| 4 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL34E00S6 | \$58.20 |
| 4 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL34A00S6 ¹ | \$54.00 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL34R11S6 | \$76.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL34G11S6 | \$76.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL34E11S6 | \$76.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL34A11S6 ¹ | \$72.00 |
| 4 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL34R00S8 | \$58.20 |
| 4 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL34G00S8 | \$58.20 |
| 4 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL34E00S8 | \$58.20 |
| 4 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL34A00S8 ¹ | \$54.00 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL34R11S8 | \$76.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL34G11S8 | \$76.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL34E11S8 | \$76.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL34A11S8 ¹ | \$72.00 |
| 4 | None | 120V | Incand., 130V | Red | CR104PSL34R00S2 | \$58.20 |
| 4 | None | 120V | Incand., 130V | Green | CR104PSL34G00S2 | \$58.20 |
| 4 | None | 120V | Incand., 130V | Yellow | CR104PSL34E00S2 | \$58.20 |
| 4 | None | 120V | Incand., 130V | No Lens | CR104PSL34A00S2 ¹ | \$54.00 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL34R11S2 | \$76.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL34G11S2 | \$76.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL34E11S2 | \$76.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL34A11S2 ¹ | \$72.00 |
| 2 | None | 6V | Incand., 6V, #755 | Red | CR104PSL32R00S6 | \$58.20 |
| 2 | None | 6V | Incand., 6V, #755 | Green | CR104PSL32G00S6 | \$58.20 |
| 2 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL32E00S6 | \$58.20 |
| 2 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL32A00S6 ¹ | \$54.00 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL32R11S6 | \$76.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL32G11S6 | \$76.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL32E11S6 | \$76.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL32A11S6 ¹ | \$72.00 |
| 2 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL32R00S8 | \$58.20 |
| 2 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL32G00S8 | \$58.20 |
| 2 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL32E00S8 | \$58.20 |
| 2 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL32A00S8 ¹ | \$54.00 |

3-Position Maintained Full Voltage Type (continued)

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL32R11S8 | \$76.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL32G11S8 | \$76.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL32E11S8 | \$76.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL32A11S8 ¹ | \$72.00 |
| 2 | None | 120V | Incand., 130V | Red | CR104PSL32R00S2 | \$58.20 |
| 2 | None | 120V | Incand., 130V | Green | CR104PSL32G00S2 | \$58.20 |
| 2 | None | 120V | Incand., 130V | Yellow | CR104PSL32E00S2 | \$58.20 |
| 2 | None | 120V | Incand., 130V | No Lens | CR104PSL32A00S2 ¹ | \$54.00 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL32R11S2 | \$76.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL32G11S2 | \$76.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL32E11S2 | \$76.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL32A11S2 ¹ | \$72.00 |
| 6 | None | 6V | Incand., 6V, #755 | Red | CR104PSL36R00S6 | \$58.20 |
| 6 | None | 6V | Incand., 6V, #755 | Green | CR104PSL36G00S6 | \$58.20 |
| 6 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL36E00S6 | \$58.20 |
| 6 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL36A00S6 ¹ | \$54.00 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL36R11S6 | \$76.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL36G11S6 | \$76.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL36E11S6 | \$76.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL36A11S6 ¹ | \$72.00 |
| 6 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL36R00S8 | \$58.20 |
| 6 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL36G00S8 | \$58.20 |
| 6 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL36E00S8 | \$58.20 |
| 6 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL36A00S8 ¹ | \$54.00 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL36R11S8 | \$76.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL36G11S8 | \$76.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL36E11S8 | \$76.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL36A11S8 ¹ | \$72.00 |
| 6 | None | 120V | Incand., 130V | Red | CR104PSL36R00S2 | \$58.20 |
| 6 | None | 120V | Incand., 130V | Green | CR104PSL36G00S2 | \$58.20 |
| 6 | None | 120V | Incand., 130V | Yellow | CR104PSL36E00S2 | \$58.20 |
| 6 | None | 120V | Incand., 130V | No Lens | CR104PSL36A00S2 ¹ | \$54.00 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL36R11S2 | \$76.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL36G11S2 | \$76.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL36E11S2 | \$76.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL36A11S2 ¹ | \$72.00 |

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.
²All lamps miniature bayonet base.

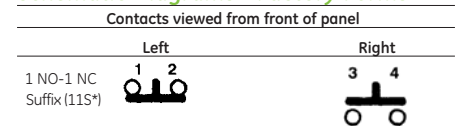
3-Position Selector Switches - Illuminated

| Operator Position | Cam #2 | | Cam #4 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| Contact State | O O X | - | NO | Right | - | - |
| | O X O | NC | - | - | - | - |
| | X O O | NO | NC | Left | NO | Right |
| | X X O | - | - | - | NC | Left |
| | O X X | - | - | - | - | - |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Voltage digit.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Section 9

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

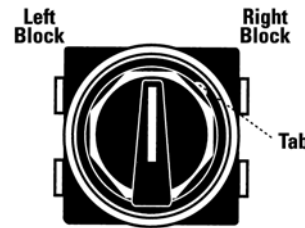
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Energy Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Transformer



Contacts viewed from front of panel.

3-Position Spring Return L→C←R Transformer Type

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 4 | None | 120V | Incand., 6V, #755 | Red | CR104PST94R00S2 | \$82.20 |
| 4 | None | 120V | Incand., 6V, #755 | Green | CR104PST94G00S2 | \$82.20 |
| 4 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST94E00S2 | \$82.20 |
| 4 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST94A00S2 ¹ | \$78.00 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST94R11S2 | \$100.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST94G11S2 | \$100.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST94E11S2 | \$100.20 |
| 4 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST94A11S2 | \$96.00 |
| 4 | None | 240V | Incand., 6V, #755 | Red | CR104PST94R00S3 | \$82.20 |
| 4 | None | 240V | Incand., 6V, #755 | Green | CR104PST94G00S3 | \$82.20 |
| 4 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST94E00S3 | \$82.20 |
| 4 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST94A00S3 ¹ | \$78.00 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST94R11S3 | \$100.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST94G11S3 | \$100.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST94E11S3 | \$100.20 |
| 4 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST94A11S3 ¹ | \$96.00 |
| 2 | None | 120V | Incand., 6V, #755 | Red | CR104PST92R00S2 | \$82.20 |
| 2 | None | 120V | Incand., 6V, #755 | Green | CR104PST92G00S2 | \$82.20 |
| 2 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST92E00S2 | \$82.20 |
| 2 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST92A00S2 ¹ | \$78.00 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST92R11S2 | \$100.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST92G11S2 | \$100.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST92E11S2 | \$100.20 |
| 2 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST92A11S2 ¹ | \$96.00 |
| 2 | None | 240V | Incand., 6V, #755 | Red | CR104PST92R00S3 | \$82.20 |
| 2 | None | 240V | Incand., 6V, #755 | Green | CR104PST92G00S3 | \$82.20 |
| 2 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST92E00S3 | \$82.20 |
| 2 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST92A00S3 ¹ | \$78.00 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST92R11S3 | \$100.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST92G11S3 | \$100.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST92E11S3 | \$100.20 |
| 2 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST92A11S3 ¹ | \$96.00 |

3-Position Spring Return L→C←R Transformer Type (continued)

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 6 | None | 120V | Incand., 6V, #755 | Red | CR104PST96R00S2 | \$82.20 |
| 6 | None | 120V | Incand., 6V, #755 | Green | CR104PST96G00S2 | \$82.20 |
| 6 | None | 120V | Incand., 6V, #755 | Yellow | CR104PST96E00S2 | \$82.20 |
| 6 | None | 120V | Incand., 6V, #755 | No Lens | CR104PST96A00S2 ¹ | \$78.00 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Red | CR104PST96R11S2 | \$100.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Green | CR104PST96G11S2 | \$100.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | Yellow | CR104PST96E11S2 | \$100.20 |
| 6 | 1NO-1NC | 120V | Incand., 6V, #755 | No Lens | CR104PST96A11S2 ¹ | \$96.00 |
| 6 | None | 240V | Incand., 6V, #755 | Red | CR104PST96R00S3 | \$82.20 |
| 6 | None | 240V | Incand., 6V, #755 | Green | CR104PST96G00S3 | \$82.20 |
| 6 | None | 240V | Incand., 6V, #755 | Yellow | CR104PST96E00S3 | \$82.20 |
| 6 | None | 240V | Incand., 6V, #755 | No Lens | CR104PST96A00S3 ¹ | \$78.00 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Red | CR104PST96R11S3 | \$100.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Green | CR104PST96G11S3 | \$100.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | Yellow | CR104PST96E11S3 | \$100.20 |
| 6 | 1NO-1NC | 240V | Incand., 6V, #755 | No Lens | CR104PST96A11S3 ¹ | \$96.00 |

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

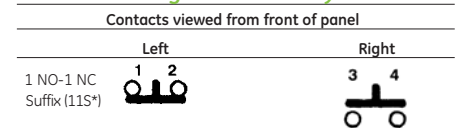
3-Position Selector Switches - Illuminated

| Operator Position | Cam #2 | | Cam #4 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| ⊙ ⊙ ⊙ | - | - | NO | Right | - | - |
| ○ ○ ○ | NC | Left | - | - | - | - |
| × ○ ○ | NO | Right | NC | Left | NO | Right |
| × × ○ | - | - | - | - | NC | Left |
| ○ × × | - | - | - | - | - | - |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Voltage digit.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Energy Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Spring Return L→C←R Full Voltage Type

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 4 | None | 6V | Incand., 6V, #755 | Red | CR104PSL94R00S6 | \$70.20 |
| 4 | None | 6V | Incand., 6V, #755 | Green | CR104PSL94G00S6 | \$70.20 |
| 4 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL94E00S6 | \$70.20 |
| 4 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL94A00S6 ¹ | \$66.00 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL94R11S6 | \$88.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL94G11S6 | \$88.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL94E11S6 | \$88.20 |
| 4 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL94A11S6 ¹ | \$84.00 |
| 4 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL94R00S8 | \$70.20 |
| 4 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL94G00S8 | \$70.20 |
| 4 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL94E00S8 | \$70.20 |
| 4 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL94A00S8 ¹ | \$66.00 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL94R11S8 | \$88.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL94G11S8 | \$88.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL94E11S8 | \$88.20 |
| 4 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL94A11S8 ¹ | \$84.00 |
| 4 | None | 120V | Incand., 130V | Red | CR104PSL94R00S2 | \$70.20 |
| 4 | None | 120V | Incand., 130V | Green | CR104PSL94G00S2 | \$70.20 |
| 4 | None | 120V | Incand., 130V | Yellow | CR104PSL94E00S2 | \$70.20 |
| 4 | None | 120V | Incand., 130V | No Lens | CR104PSL94A00S2 ¹ | \$66.00 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL94R11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL94G11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL94E11S2 | \$88.20 |
| 4 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL94A11S2 ¹ | \$84.00 |
| 2 | None | 6V | Incand., 6V, #755 | Red | CR104PSL92R00S6 | \$70.20 |
| 2 | None | 6V | Incand., 6V, #755 | Green | CR104PSL92G00S6 | \$70.20 |
| 2 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL92E00S6 | \$70.20 |
| 2 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL92A00S6 ¹ | \$66.00 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL92R11S6 | \$88.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL92G11S6 | \$88.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL92E11S6 | \$88.20 |
| 2 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL92A11S6 ¹ | \$84.00 |
| 2 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL92R00S8 | \$70.20 |
| 2 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL92G00S8 | \$70.20 |
| 2 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL92E00S8 | \$70.20 |
| 2 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL92A00S8 ¹ | \$66.00 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL92R11S8 | \$88.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL92G11S8 | \$88.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL92E11S8 | \$88.20 |
| 2 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL92A11S8 ¹ | \$84.00 |

3-Position Spring Return L→C←R Full Voltage Type (continued)

| 3 Position Cam Code | Contact Configuration | Input Voltage | Lamp Type ² | Color | Product Number | List Price GO-10P1 |
|---------------------|-----------------------|---------------|------------------------|---------|------------------------------|--------------------|
| 2 | None | 120V | Incand., 130V | Red | CR104PSL92R00S2 | \$70.20 |
| 2 | None | 120V | Incand., 130V | Green | CR104PSL92G00S2 | \$70.20 |
| 2 | None | 120V | Incand., 130V | Yellow | CR104PSL92E00S2 | \$70.20 |
| 2 | None | 120V | Incand., 130V | No Lens | CR104PSL92A00S2 ¹ | \$66.00 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL92R11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL92G11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL92E11S2 | \$88.20 |
| 2 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL92A11S2 ¹ | \$84.00 |
| 6 | None | 6V | Incand., 6V, #755 | Red | CR104PSL96R00S6 | \$70.20 |
| 6 | None | 6V | Incand., 6V, #755 | Green | CR104PSL96G00S6 | \$70.20 |
| 6 | None | 6V | Incand., 6V, #755 | Yellow | CR104PSL96E00S6 | \$70.20 |
| 6 | None | 6V | Incand., 6V, #755 | No Lens | CR104PSL96A00S6 ¹ | \$66.00 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Red | CR104PSL96R11S6 | \$88.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Green | CR104PSL96G11S6 | \$88.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | Yellow | CR104PSL96E11S6 | \$88.20 |
| 6 | 1NO-1NC | 6V | Incand., 6V, #755 | No Lens | CR104PSL96A11S6 ¹ | \$84.00 |
| 6 | None | 24V | Incand., 24V, #1819 | Red | CR104PSL96R00S8 | \$70.20 |
| 6 | None | 24V | Incand., 24V, #1819 | Green | CR104PSL96G00S8 | \$70.20 |
| 6 | None | 24V | Incand., 24V, #1819 | Yellow | CR104PSL96E00S8 | \$70.20 |
| 6 | None | 24V | Incand., 24V, #1819 | No Lens | CR104PSL96A00S8 ¹ | \$66.00 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Red | CR104PSL96R11S8 | \$88.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Green | CR104PSL96G11S8 | \$88.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | Yellow | CR104PSL96E11S8 | \$88.20 |
| 6 | 1NO-1NC | 24V | Incand., 24V, #1819 | No Lens | CR104PSL96A11S8 ¹ | \$84.00 |
| 6 | None | 120V | Incand., 130V | Red | CR104PSL96R00S2 | \$70.20 |
| 6 | None | 120V | Incand., 130V | Green | CR104PSL96G00S2 | \$70.20 |
| 6 | None | 120V | Incand., 130V | Yellow | CR104PSL96E00S2 | \$70.20 |
| 6 | None | 120V | Incand., 130V | No Lens | CR104PSL96A00S2 ¹ | \$66.00 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Red | CR104PSL96R11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Green | CR104PSL96G11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | Yellow | CR104PSL96E11S2 | \$88.20 |
| 6 | 1NO-1NC | 120V | Incand., 130V | No Lens | CR104PSL96A11S2 ¹ | \$84.00 |

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

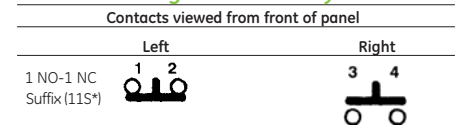
3-Position Selector Switches - Illuminated

| Operator Position | Cam #2 | | Cam #4 | | Cam #6 | |
|-------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right | Type of Contact Block | Mounting Location Left/Right |
| O O X | - | - | NO | Right | - | - |
| O X O | NC | Left | - | - | - | - |
| X O O | NO | Right | NC | Left | NO | Right |
| X X O | - | - | - | - | NC | Left |
| O X X | - | - | - | - | - | - |

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.
*Voltage digit.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

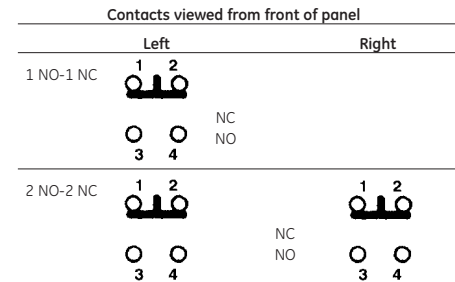
Cam Logic
600 Volts max. AC/DC
10 Amperes Continuous

2-Position Selector Switches

| Operator Position | Illuminated or Nonilluminated | | Nonilluminated Only | | Nonilluminated Only | | |
|-------------------|-------------------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------|
| | Cam #1 | | Cam #2 | | Cam #3 | | |
| | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | |
| Operator Position | O | — | X | NO | L or R | — | — |
| | X | — | O | NC | L or R | — | — |
| Contact State | X | O | — | — | NO | L or R | — |
| | O | X | — | — | NC | L or R | — |
| | — | O | — | — | — | — | NO L or R |
| | — | X | — | — | — | — | NC L or R |

In the product number of a 2-position selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams



Numbers and letters are molded into blocks at terminals.

3-Position Selector Switches

| Operator Position | Illuminated or Nonilluminated | | Nonilluminated Only | | Illuminated or Nonilluminated | | Nonilluminated Only | | Illuminated or Nonilluminated | | | | |
|-------------------|-------------------------------|------------------------------|-----------------------|------------------------------|-------------------------------|------------------------------|--------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------------|------|------------------------------|
| | Cam #2 | | Cam #3 | | Cam #4 | | Cam #5 | | Cam #6 | | | | |
| | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | Type of Contact Block | Mounting Location Left-Right | | | |
| Operator Position | O | O | X | — | — | NO | L or R | NO | L or R | NO | L or R | NO | Left |
| | O | X | O | NC | L or R | NC | L or R | — | — | NC | Right | 2-NC | L+R (IN SERIES) ¹ |
| Contact State | X | O | O | NO | L or R | — | — | NC | L or R | NC | Left | NO | Right |
| | X | X | O | 1-NO+1-NC | in parallel ¹ | — | — | — | — | — | — | NC | Left |
| | O | X | X | — | — | 1-NO+1-NC | in parallel ¹ | — | — | — | — | NC | Right |
| | X | O | X | — | — | — | — | 1-NO+1-NC | in parallel ¹ | NO+NC | Right Left in parallel ¹ | 2 NO | in parallel ¹ |

4-Position Selector Switch

| Operator Position | Non-Illuminated Only | | | | Field Wired | | |
|-------------------|-----------------------|------------------------------|---|----|-------------|---------------|---------------|
| | Cam #7 | | | | | | |
| Contact State | Type of Contact Block | Mounting Location Left-Right | | | | | |
| Contact State | X | O | O | O | NC | Left | — |
| | O | O | X | O | NO | Left | — |
| | O | O | O | X | NC | Right | — |
| | O | X | O | O | NO | Right | — |
| | O | O | X | X | NO | Left | 2-in parallel |
| | | | | | NC | Right | |
| | O | X | O | X | NO | Right | 2-in parallel |
| | | | | | NC | Right | |
| | O | X | X | O | NO | Left | 2-in parallel |
| | | | | | NO | Right | |
| | X | O | O | X | NC | Left | 2-in parallel |
| | | | | | NC | Right | |
| | X | O | X | O | NO | Left | 2-in parallel |
| | | | | | NC | Left | |
| | O | X | X | X | NO | Left | 3-in parallel |
| | | | | | NO | Right | |
| NC | | | | | Right | | |
| NC | | | | | Right | | |
| X | X | X | O | NO | Left | 3-in parallel | |
| | | | | NC | Left | | |
| | | | | NO | Right | | |
| | | | | NC | Right | | |
| X | X | O | X | NC | Left | 3-in parallel | |
| | | | | NO | Right | | |
| | | | | NC | Right | | |
| | | | | NO | Right | | |
| X | O | X | X | NC | Left | 3-in parallel | |
| | | | | NC | Left | | |
| | | | | NC | Left | | |
| | | | | NC | Right | | |

X = Contact is closed.

O = Contact is open.

NO = Normally open contact.

NC = Normally closed contact.

— = This position is nonexistent or is a "pass-through" position with no detent to stop or hold the knob there.

¹Field wired.

In the product number of a 3-position non-illuminated selector switch the fifth figure after the "104" is the cam code number.

Example: In CR104PSG3 2 B91, the cam number is 2.

Note that an "open" position for an NO contact may **not** be a closed position for an NC contact at the same location and knob position. The cam may depress the contact plunger only halfway in that position.

Changing cams on operators is not recommended; but, changing contact blocks on operators per above chart may meet a special need.

Example: To provide both X O O and O X O operation, simply add a single-circuit NO contact block (L or R) to a CR104PSG3 2 B01.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators

CR104P

Joysticks
 600 Volts max. AC/DC
 10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Boot is nitride rubber, check for application suitability. For optional silicone boot, contact factory for availability. Nine-position selector switch contact rating is 10 Amperes at 125/150 Volts ac. Terminals are solder or quick connect type.

3-Position



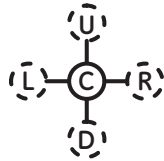
| Position | Contact Block | |
|----------|---------------|--------|
| | Left | Right |
| R | X O | O X |
| C | - | - |
| L | O X | X O |

| Release Type | Product Number | List Price GO-10P1 |
|---|----------------|--------------------|
| Maintained | CR104PJJ31 | \$142.20 |
| Momentary | CR104PJB31 | \$142.20 |
| Maintained with mechanical interlock in center position | CR104PJJ31B | \$148.20 |
| Momentary with mechanical interlock in center position | CR104PJB31B | \$148.20 |



Momentary

5-Position



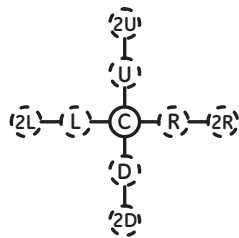
| Position | Contact Block | |
|----------|---------------|--------|
| | Left | Right |
| U | X O | - - |
| R | - - | O X |
| C | - | - |
| D | O X | - - |
| L | - - | X O |

| Release Type | Product Number | List Price GO-10P1 |
|---|----------------|--------------------|
| Maintained | CR104PJC53 | \$166.20 |
| Momentary | CR104PJD53 | \$166.20 |
| Maintained with mechanical interlock in center position | CR104PJC53B | \$172.20 |
| Momentary with mechanical interlock in center position | CR104PJD53B | \$172.20 |



Maintained

9-Position

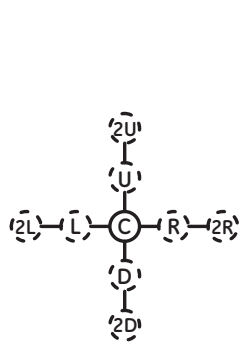


| Pos. | Contact Block | | | | | | | |
|------|---------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2U | O | O | X | X | X | X | X | X |
| U | X | X | O | O | O | O | O | O |
| 2R | X | X | X | X | O | O | X | X |
| R | O | O | O | O | X | X | O | O |
| C | X | X | X | X | X | X | X | X |
| D | O | O | O | X | O | X | X | X |
| 2D | O | O | X | X | O | O | O | O |
| L | X | X | X | X | X | X | O | X |
| 2L | O | O | O | O | X | X | O | O |

| Release Type | Product Number | List Price GO-10P1 |
|---|----------------|--------------------|
| Maintained | CR104PJL96 | \$304.20 |
| Momentary | CR104PJM96 | \$304.20 |
| Maintained with mechanical interlock in center position | CR104PJL96B | \$310.20 |
| Momentary with mechanical interlock in center position | CR104PJM96B | \$310.20 |



Mechanical Interlock



| Pos. | Contact Block | | | | | | | |
|------|---------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2U | O | X | X | X | X | X | X | X |
| U | X | O | X | X | X | X | X | X |
| 2R | X | X | X | X | O | X | X | X |
| R | O | O | O | O | X | O | X | O |
| C | X | X | X | X | X | X | X | X |
| D | O | O | X | O | O | O | O | O |
| 2D | X | X | X | O | X | X | X | X |
| L | O | O | O | O | O | O | O | X |
| 2L | X | X | X | X | X | X | O | X |

| Release Type | Product Number | List Price GO-10P1 |
|---|----------------|--------------------|
| Maintained | CR104PJL97 | \$304.20 |
| Momentary | CR104PJM97 | \$304.20 |
| Maintained with mechanical interlock in center position | CR104PJL97B | \$310.20 |
| Momentary with mechanical interlock in center position | CR104PJM97B | \$310.20 |



9-Position



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators

CR104P

Potentiometer Operators
600 Volts max. AC/DC
10 Amperes Continuous

Potentiometer operators are designed for 2-watt potentiometers with shafts 2" long and .25" in diameter. Potentiometers offered here fit that description and also are available as Clinostat model 380C1.

Suitable for use in NEMA Types 1, 3, 3R, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Potentiometer Operators

| Ohms | Product Number | List Price |
|----------------------|----------------|------------|
| None (Operator Only) | CR104PXP | \$70.20 |

Assembled Potentiometer Operators

| Ohms | Product Number | List Price |
|------------------|----------------|------------|
| 100 Ohms | CR104PXP01 | \$118.20 |
| 250 Ohms | CR104PXP02 | \$118.20 |
| 500 Ohms | CR104PXP03 | \$118.20 |
| 1,000 Ohms | CR104PXP04 | \$118.20 |
| 2,500 Ohms | CR104PXP05 | \$118.20 |
| 5,000 Ohms | CR104PXP06 | \$118.20 |
| 10,000 Ohms | CR104PXP07 | \$118.20 |
| 25,000 Ohms | CR104PXP08 | \$118.20 |
| 50,000 Ohms | CR104PXP09 | \$118.20 |
| 100,000 Ohms | CR104PXP10 | \$118.20 |
| 250,000 Ohms | CR104PXP11 | \$118.20 |
| 500,000 Ohms | CR104PXP12 | \$118.20 |
| 1 million Ohms | CR104PXP13 | \$118.20 |
| 2.5 million Ohms | CR104PXP14 | \$118.20 |
| 5 million Ohms | CR104PXP15 | \$118.20 |



Potentiometer Operator



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plans and Dimensions: See page 9-57

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Contact Blocks
600 Volts max. AC/DC
10 Amperes Continuous

Description

The basic contact block features one normally open/one normally closed (1NO-1NC) contact with a white plunger. There are two types of standard single contact blocks. One contains 1NC contact with a red plunger; the other contains 1NO contact with a green plunger.

Application

Gold flashed contacts are recommended for nonarcing, low-level loads (below 48 volts). All standard forms of the CR104P contact blocks are available with gold flashed contacts

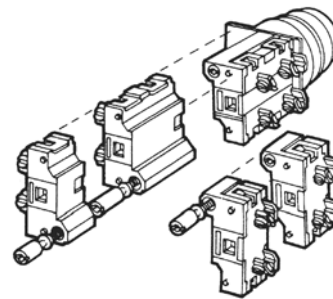
Logic reed contact blocks are specially suited for operations using low voltage levels (24 volts or below) typically available from programmable logic controls or computer systems. They are ideal for use in hostile environments at voltages up to 120 Vac.

Installing and Adding Blocks

A single captive screw, coupled with mating projections and recesses, connects each contact block to the operator or to another contact block, and it provides resistance to shock and vibration. These internally threaded screws make mounting to other blocks possible, allowing assembly of side-by-side and piggyback contact blocks. Depending on the capacity of the operator unit, it is possible to obtain a maximum of eight circuits (four on each side).

Connections

The terminal screws, equipped with captive saddle clamps, are mounted in offset positions to allow easy accessibility, even when installed with minimum center distance. You need only to strip the wire, place it under the saddle clamp, and tighten it to provide a positive, reliable connection. Standard and gold flashed contact blocks are supplied with IP10 back-of-hand protection to comply with UL508 Section 39A requirement for door mounted devices. Contact blocks are also available with IP20 finger safe protection.



Connections

Maximum Contacts

| Operator | Single Current | | Double Circuit | |
|--|----------------|----------|----------------|----------|
| | Blocks | Contacts | Blocks | Contacts |
| Non-illuminated selector switches (excluding 4-position) | 6 | 6 | 6 | 12 |
| Combination (push-turn) | 6 | 6 | 6 | 12 |
| Non-illuminated momentary push buttons (incl. mushroom-head) | 8 | 8 | 4 | 8 |
| Illuminated momentary push buttons | 4 | 4 | 2 | 4 |
| Push-to-latch/turn-to-release mushroom-head push buttons | 4 | 4 | 4 | 8 |
| Key push buttons | 4 | 4 | 4 | 8 |
| Illuminated selector switches | 4 | 4 | 2 | 4 |
| 3-position & 5-position joysticks | 4 | 4 | 4 | 8 |
| Push-pull illuminated mushroom-head push buttons | 2 | 2 | 2 | 4 |
| Push-pull non-illuminated mushroom-head push buttons | 2 | 2 | 2 | 4 |
| Non-illuminated 4-position selector switches | — | — | 2 | 4 |
| Push-push illuminated push buttons | 2 | 2 | — | — |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Contact Blocks

600 Volts max. AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Single-Circuit with Finger-Safe Terminals

Standard

| Contact Configuration | Operating Plunger Color | Protection | Product Number | List Price GO-10P1 |
|-----------------------|-------------------------|-------------------|--------------------------|-----------------------|
| 1NO-1NC | White | IP10 Back-of-Hand | CR104PXC91 | \$18.00 |
| 1NO | Green | IP10 Back-of-Hand | CR104PXC1 | \$9.00 |
| 1NC | Red | IP10 Back-of-Hand | CR104PXC01 | \$9.00 |
| 1NO (early close) | White | IP10 Back-of-Hand | CR104PXC10E ¹ | \$9.00 |
| 1NC (late open) | White | IP10 Back-of-Hand | CR104PXC01L ¹ | \$9.00 |
| 1NO | Green | IP20 Finger | CR104PXC1F | \$12.00 |
| 1NC | Red | IP20 Finger | CR104PXC01F | \$12.00 |
| 1NO (early close) | White | IP20 Finger | CR104PXC10EF | \$12.00 |
| 1NC (late open) | White | IP20 Finger | CR104PXC01LF | \$12.00 |

¹Overlapping contacts can be achieved by combining CR104PXC10E, EF and CR104PXC01L, LF.

Gold Flashed

| Contact Configuration | Operating Plunger Color | Protection | Product Number | List Price GO-10P1 |
|-----------------------|-------------------------|-------------------|----------------------------|-----------------------|
| 1NO-1NC | White | IP10 Back-of-Hand | CR104PXC91G | \$36.00 |
| 1NO | Green | IP10 Back-of-Hand | CR104PXC10G | \$18.00 |
| 1NC | Red | IP10 Back-of-Hand | CR104PXC01G | \$18.00 |
| 1NO (early close) | White | IP10 Back-of-Hand | CR104PXC10EG ² | \$18.00 |
| 1NC (late open) | White | IP10 Back-of-Hand | CR104PXC01LG ² | \$18.00 |
| 1NO | Green | IP20 Finger | CR104PXC10GF | \$21.00 |
| 1NC | Red | IP20 Finger | CR104PXC01GF | \$21.00 |
| 1NO (early close) | White | IP20 Finger | CR104PXC10EGF ² | \$21.00 |
| 1NC (late open) | White | IP20 Finger | CR104PXC01LGF ² | \$21.00 |

²Overlapping contacts can be achieved by combining CR104PXC10EG, EGF and CR104PXC01LG, LGF.



Single Circuit Contact Block

Reed Switch

| Contact Configuration | Product Number ³ | List Price GO-10P1 |
|-----------------------|-----------------------------|-----------------------|
| 1NO | CR104PXC10R | \$18.00 |
| 1NC | CR104PXC01R | \$18.00 |

³Sold as components only. Suitable for Class I, Group A,B,C and D, Div. 2, Class II Hazardous Locations; Groups F and G Hazardous Locations when installed in a NEMA Type 4 or 12 enclosure.

IP10 Guards For Contact Blocks

| For Use With | Product Number ⁴ | List Price GO-10P1 |
|--------------|-----------------------------|-----------------------|
| 1NO | CR104PXG117 | \$0.50 |
| 1NC | CR104PXG118 | \$0.50 |
| 1NO-1NC | CR104PXG119 | \$0.75 |

⁴Minimum order quantity is 10; package quantity is 10; multiple quantities is 10.

IP20 Guards For Contact Blocks

| For Use With | Product Number | List Price GO-10P1 |
|--------------|----------------|-----------------------|
| 1NO | CR104PXG17 | \$3.00 |
| 1NC | CR104PXG18 | \$3.00 |
| 1NO-1NC | CR104PXG19 | \$6.00 |

Contact Ratings: Standard Blocks-AC Ratings, NEMA A600 Heavy Pilot Duty

| Maximum Voltage | Continuous Current Amperes | AC Make Voltamperes @ 60/50 Hz ¹ | AC Break Voltamperes @ 60/50 Hz ⁵ |
|-----------------|----------------------------|---|--|
| 600 VAC/DC | 10 | 7200 | 720 |

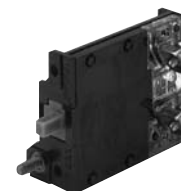
⁵Maximum make and break currents are 60 and 6 amperes respectively for voltages of 120 and below.

Contact Ratings: Standard Blocks-DC Ratings, NEMA P600 Heavy Pilot Duty

| Maximum Make or Break Amperes @ 125 VDC | Maximum Make or Break Amperes @ 250 VDC | Maximum Make or Break Amperes @ 600 VDC |
|---|---|---|
| 1.1 | 0.55 | 0.2 |

Contact Ratings: Reed Switch Blocks

| AC Operating Voltage | AC Maximum Continuous Current | AC Resistive VA | DC Operating Voltage | DC Maximum Continuous Current | DC Resistive Watts |
|----------------------|-------------------------------|-----------------|----------------------|-------------------------------|--------------------|
| 2-120 VAC | .001-.15A | 8 VA maximum | 2-30 VDC | .001-.15A | 4.5 Watts maximum |



Reed Switch Contact Block



Nameplates: See pages 9-40 to 9-41

Technical Data: See pages 9-56 to 9-57

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Accessories, Components and Kits
 600 Volts max. AC/DC
 10 Amperes Continuous

Lamps

| Bulb Type | Voltage | Lamp Type | Description | Product Number | List Price GO-10P1 |
|--|---------|------------------|-------------------------------|-------------------------|--------------------|
| Incandescent with bayonet base | 6V | No. 755 Lamp | Transformers and Full-voltage | CR104PXA16 | \$3.00 |
| Incandescent with bayonet base | 12V | No. 756 Lamp | Full-voltage | CR104PXA12 | \$3.00 |
| Incandescent with bayonet base | 24V | No. 1819 Lamp | Full-voltage | CR104PXA14 | \$3.00 |
| Incandescent with bayonet base | 130V | | Full-voltage | CR104PXA54 | \$3.00 |
| Incandescent with telephone slide base | 120V | No. 120PSB Lamp | Full-voltage, 240 V Resistor | CR104PXA52 ¹ | \$3.00 |
| Incandescent with bayonet base | 60V | No. 1835 Lamp | 120V Resistor | CR104PXA15 | \$3.00 |
| Incandescent Flasher with bayonet base | 6V | No. 267 Lamp | Full-voltage | CR104PXA16F | \$6.00 |
| Incandescent with screw base | 6V | No. 1768 Lamp | Cluster light | CR104PXA26 | \$3.00 |
| Incandescent with screw base | 12V | No. 373 Lamp | Cluster light | CR104PXA22 | \$3.00 |
| Incandescent with screw base | 24V | No. 399 Lamp | Cluster light | CR104PXA24 | \$3.00 |
| Neon with bayonet base | 120V | No. NE51H-R Lamp | | CR104PXA19 | \$3.00 |



Lamps

Lamps

| Bulb Type | Voltage | Lamp Type | Product Number | List Price GO-10GC |
|-----------------------|------------|---------------------------------|----------------|--------------------|
| LED with bayonet base | 6 VAC/DC | Flat Top; replaces No. 755 Lamp | 080BA9S6L* | \$18.00 |
| LED with bayonet base | 12 VAC/DC | Flat Top | 080BA9S12L* | \$18.00 |
| LED with bayonet base | 24 VAC/DC | Flat Top | 080BA9S24L* | \$18.00 |
| LED with bayonet base | 48 VAC/DC | Flat Top | 080BA9S48L* | \$18.00 |
| LED with bayonet base | 120 VAC/DC | Flat Top | 080BA9S120L* | \$18.00 |

*Insert LED color from table.

LED Colors

| Colors | Red | Green | Yellow | Orange | White | Blue |
|-------------|-----|-------|--------|--------|-------|------|
| *Color code | R | V | G | A | B | L |

¹For replacement only (GO-11GS).

Mushroom-Head Caps

| Mushroom-Head Cap Diameter | Depth (max. projection front of panel) | Color | Illumination | For Use With | Product Number | List Price GO-10P1 |
|----------------------------|--|--------|------------------------------|------------------------------|----------------|--------------------|
| 1-3/8" (34.9 mm) | 1.10" (27.9 mm) | Black | Non-Illuminated | Standard operators | CR104PXM03B | \$6.00 |
| 1-3/8" (34.9 mm) | 1.10" (27.9 mm) | Red | Non-Illuminated | Standard operators | CR104PXM03R | \$6.00 |
| 1-3/8" (34.9 mm) | 1.10" (27.9 mm) | Yellow | Non-Illuminated | Standard operators | CR104PXM03E | \$6.00 |
| 1-3/8" (34.9 mm) | 1.10" (27.9 mm) | Green | Non-Illuminated | Standard operators | CR104PXM03G | \$6.00 |
| 1-3/8" (34.9 mm) | 1.10" (27.9 mm) | Red | Non-Illuminated | Push-turn operators | CR104PXM04R | \$6.00 |
| 2-3/8" (60.3 mm) | 1.10" (27.9 mm) | Black | Non-Illuminated | Standard operators | CR104PXM06B | \$6.00 |
| 2-3/8" (60.3 mm) | 1.10" (27.9 mm) | Red | Non-Illuminated | Standard operators | CR104PXM06R | \$6.00 |
| 2-3/8" (60.3 mm) | 1.10" (27.9 mm) | Yellow | Non-Illuminated | Standard operators | CR104PXM06E | \$6.00 |
| 2-3/8" (60.3 mm) | 1.10" (27.9 mm) | Green | Non-Illuminated | Standard operators | CR104PXM06G | \$6.00 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Red | Illuminated | Standard operators | CR104PXL06R | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Yellow | Illuminated | Standard operators | CR104PXL06E | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Green | Illuminated | Standard operators | CR104PXL06G | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Blue | Illuminated | Standard operators | CR104PXL06L | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Amber | Illuminated | Standard operators | CR104PXL06M | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | White | Illuminated | Standard operators | CR104PXL06W | \$4.20 |
| 1 3/8" (34.9 mm) | 1.20" (30.5 mm) | Clear | Illuminated | Standard operators | CR104PXL06C | \$4.20 |
| 2 3/8" (60.3 mm) | 1.20" (30.5 mm) | Red | Non-Illuminated | Key operated | CR104PXM08R | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Black | Non-Illuminated | CR104PTY protected operators | CR104PTYZ152 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Red | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ153 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Orange | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ154 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Yellow | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ155 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Green | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ156 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | Blue | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ157 | \$6.00 |
| 1.58" (40.1 mm) | 1.58" (40.1 mm) | White | Illuminated, Non-Illuminated | CR104PTY protected operators | CR104PTYZ158 | \$6.00 |



CR104PXM03* Mushroom-Head, 1 3/8" dia.



CR104PXM06* Mushroom-Head, 2 3/8" dia.



CR104PXL06* Mushroom-Head, 1 3/8" dia., Illuminated



CR104XM08R 2 3/8" dia., for Key-Operated Push Buttons



CR104PTZ15* Replacement heads for protected Mushroom-Heads



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits
600 Volts max. AC/DC
10 Amperes Continuous



CR104PXM02* Non-Illuminated Knob

Selector Switch Knobs

| Depth (max. projection front of panel) | Color | Illumination | Product Number | List Price GO-10P1 |
|--|--------|-----------------|----------------|--------------------|
| 1.16" (29.5 mm) | Black | Non-Illuminated | CR104PXM02B | \$.75 |
| 1.16" (29.5 mm) | Red | Non-Illuminated | CR104PXM02R | \$.75 |
| 1.16" (29.5 mm) | Yellow | Non-Illuminated | CR104PXM02E | \$.75 |
| 1.16" (29.5 mm) | Green | Non-Illuminated | CR104PXM02G | \$.75 |
| 1.16" (29.5 mm) | Blue | Non-Illuminated | CR104PXM02L | \$.75 |
| 1.11" (28.2 mm) | Red | Illuminated | CR104PXL03R | \$4.20 |
| 1.11" (28.2 mm) | Yellow | Illuminated | CR104PXL03E | \$4.20 |
| 1.11" (28.2 mm) | Green | Illuminated | CR104PXL03G | \$4.20 |
| 1.11" (28.2 mm) | Blue | Illuminated | CR104PXL03L | \$4.20 |
| 1.11" (28.2 mm) | Amber | Illuminated | CR104PXL03M | \$4.20 |
| 1.11" (28.2 mm) | White | Illuminated | CR104PXL03W | \$4.20 |
| 1.11" (28.2 mm) | Clear | Illuminated | CR104PXL03C | \$4.20 |



CR104PXL03* Illuminated Knob

Lenses

| Depth (max. projection front of panel) | Color | Illumination | For use with | Product Number | List Price GO-10P1 |
|--|--------|--------------|---------------------------|----------------|--------------------|
| 1.20" (30.5 mm) | Red | Illuminated | Push Buttons | CR104PXL05R | \$4.20 |
| 1.20" (30.5 mm) | Yellow | Illuminated | Push Buttons | CR104PXL05E | \$4.20 |
| 1.20" (30.5 mm) | Green | Illuminated | Push Buttons | CR104PXL05G | \$4.20 |
| 1.20" (30.5 mm) | Blue | Illuminated | Push Buttons | CR104PXL05L | \$4.20 |
| 1.20" (30.5 mm) | Amber | Illuminated | Push Buttons | CR104PXL05M | \$4.20 |
| 1.20" (30.5 mm) | White | Illuminated | Push Buttons | CR104PXL05W | \$4.20 |
| 1.20" (30.5 mm) | Clear | Illuminated | Push Buttons | CR104PXL05C | \$4.20 |
| 0.92" (23.4 mm) | Red | | Standard Pilot Lights | CR104PXL01R | \$4.20 |
| 0.92" (23.4 mm) | Yellow | | Standard Pilot Lights | CR104PXL01E | \$4.20 |
| 0.92" (23.4 mm) | Green | | Standard Pilot Lights | CR104PXL01G | \$4.20 |
| 0.92" (23.4 mm) | Blue | | Standard Pilot Lights | CR104PXL01L | \$4.20 |
| 0.92" (23.4 mm) | Amber | | Standard Pilot Lights | CR104PXL01M | \$4.20 |
| 0.92" (23.4 mm) | White | | Standard Pilot Lights | CR104PXL01W | \$4.20 |
| 0.92" (23.4 mm) | Clear | | Standard Pilot Lights | CR104PXL01C | \$4.20 |
| 1.20" (30.5 mm) | Red | | Push-to-test Pilot Lights | CR104PXL07R | \$4.20 |
| 1.20" (30.5 mm) | Yellow | | Push-to-test Pilot Lights | CR104PXL07E | \$4.20 |
| 1.20" (30.5 mm) | Green | | Push-to-test Pilot Lights | CR104PXL07G | \$4.20 |
| 1.20" (30.5 mm) | Blue | | Push-to-test Pilot Lights | CR104PXL07L | \$4.20 |
| 1.20" (30.5 mm) | Amber | | Push-to-test Pilot Lights | CR104PXL07M | \$4.20 |
| 1.20" (30.5 mm) | White | | Push-to-test Pilot Lights | CR104PXL07W | \$4.20 |
| 1.20" (30.5 mm) | Clear | | Push-to-test Pilot Lights | CR104PXL07C | \$4.20 |



CR104PXL05* Push Button Lens



CR104PXL01* Standard Pilot Light Lens



CR104PXL07* Push-to-Test Pilot Light Lens

Lens and Divider

| Color | For use with | Product Number | List Price GO-10P1 |
|-------|---------------------------|----------------|--------------------|
| White | Cluster Type Pilot Lights | CR104PXL02W | \$5.70 |
| White | Cluster Type Pilot Lights | CR104PXL04W | \$5.70 |



CR104XL02* Cluster Type Lens and Divider



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Accessories, Components and Kits

600 Volts max. AC/DC

10 Amperes Continuous

Protective Caps

| Description | Protective Caps Material | Color | Package Quantity | Product Number | List Price GO-10P1 |
|--|---|------------------------------------|------------------|--------------------------|--------------------|
| Lever for combination (push/turn) units | | | | CR104PXM07 | \$6.00 |
| Protective cap for standard push button | Neoprene rubber | Black | | CR104PXB01B ¹ | \$12.00 |
| Protective cap for standard push button | Neoprene rubber | Red | | CR104PXB01R ¹ | \$12.00 |
| Protective cap for standard push button | Neoprene rubber | Yellow | | CR104PXB01E ¹ | \$12.00 |
| Protective cap for standard push button | Neoprene rubber | Green | | CR104PXB01G ¹ | \$12.00 |
| Protective cap for standard push button | Silicone | Transparent | | CR104PXB01C ¹ | \$12.00 |
| Protective cap for illuminated push button or push-to-test pilot light | Silicone | Transparent | | CR104PXB02C ¹ | \$18.00 |
| Protective cap for knob-operated selector switches | Neoprene rubber with transparent actuator | Black | | CR104PXB03C ¹ | \$12.00 |
| Protective cap for lever-operated selector switches | Neoprene rubber | Black | | CR104PXB04B ¹ | \$12.00 |
| Painted plug for unused mounting hole | | | | CR104PXG103 ² | \$6.00 |
| Chrome plated plug for unused mounting hole | | | | CR104PXG113 ³ | \$6.00 |
| Color cap kits for standard push buttons | | 1 Each: Red, Green, Yellow, Black | Pkg. of 4 | CR104PXM01U | \$1.50 per package |
| Color cap kits for standard push buttons | | 1 Each: Brown, Blue, Orange, White | Pkg. of 4 | CR104PXM01V | \$1.50 per package |
| Color cap kits for standard push buttons | | Black | Pkg. of 10 | CR104PXM01B ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Red | Pkg. of 10 | CR104PXM01R ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Yellow | Pkg. of 10 | CR104PXM01E ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Green | Pkg. of 10 | CR104PXM01G ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | White | Pkg. of 10 | CR104PXM01W ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Blue | Pkg. of 10 | CR104PXM01L ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Orange | Pkg. of 10 | CR104PXM01M ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Clear | Pkg. of 10 | CR104PXM01C ⁴ | \$3.00 |
| Color cap kits for standard push buttons | | Brown | Pkg. of 10 | CR104PXM01N ⁴ | \$3.00 |

¹Replaces octagonal ring.

²Recommended for use on painted steel enclosures.

³Recommended for use on stainless steel enclosures.

⁴This price per each, packaged in quantities of 10 of one color. Must be ordered in multiples of 10.



CR104PXM07
Lever for Combination (push/turn) Units



CR104PXB01*
For Standard Push Button



CR104PXB02C For Illuminated or
Push-to-Test Push Button



CR104PXB03C
For Knob-Operated Selector Switches



CR104PXB04B
For Lever-Operated Selector Switches



CR104PXG1_3
Plug for Unused Mounting Hole



CR104PXM01*
Color Cap Kits for Standard Push Buttons



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits
600 Volts max. AC/DC
10 Amperes Continuous

Mushroom-Head Guards

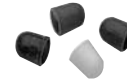
| Mushroom-Head Cap Diameter | Depth (max. projection front of panel) | Product Number | List Price GO-10P1 |
|------------------------------|--|----------------|--------------------|
| 1 3/8", OD = 1.66" (42.2 mm) | 1.38" (35.1 mm) | CR104PXG14 | \$24.00 |
| 2 3/8", OD = 2.64" (67.1 mm) | 1.38" (35.1 mm) | CR104PXG15 | \$24.00 |



CR104PXG14 Mushroom-Head Guard

Cluster-Type Pilot Light Boots

| Color | Package Quantity | Product Number | List Price GO-10P1 |
|----------------------------------|--------------------|--------------------------|--------------------|
| Yellow | 4 | CR104PXL08E ¹ | \$0.37 |
| Green | 4 | CR104PXL08G ¹ | \$0.37 |
| Blue | 4 | CR104PXL08L ¹ | \$0.37 |
| Red | 4 | CR104PXL08R ¹ | \$0.37 |
| 1 Each: Yellow, Green, Blue, Red | Four, 1 each color | CR104PXL08T | \$1.50 |
| | | | per package |



CR104PXL08* Cluster Light Boots

¹This price per each, packaged in quantities of 4. Must be ordered in multiples of 4.

Octagonal Operator Mounting Rings

| For use with | Depth (max. projection front of panel) | Description | Product Number | List Price GO-10P1 |
|--|--|------------------------------|----------------|--------------------|
| Standard Flush Push Buttons, Push-to-test Pilot Lights, Mushroom-Head Push Buttons | | | CR104PXG01 | \$1.20 |
| Extended Push Buttons, Key-Operated Push Buttons, Push-to-latch/turn-to-release Push Buttons | | | CR104PXG02 | \$1.20 |
| Recessed Push Buttons | 0.71" (19.0 mm) | | CR104PXG03 | \$1.20 |
| Guarded Illuminated Push Buttons | 1.20" (30.5 mm) | | CR104PXG04 | \$6.00 |
| Combination (push/turn) Units | | | CR104PXG06 | \$1.80 |
| Non-illuminated Selector Switches, Joysticks, Potentiometer Operators | | | CR104PXG07 | \$1.20 |
| Standard Pilot Lights, Illuminated Selector Switches | | | CR104PXG08 | \$1.20 |
| Cluster Pilot Lights (2- and 4-lamp) | | | CR104PXG09 | \$1.20 |
| Octagonal Rings | | CR104P octagonal ring wrench | CR104PXG104 | \$18.00 |



CR104PXG01 Octagonal Mounting Ring for Standard Flush and Mushroom-Head Push Buttons, and Push to Test Pilot Lights



CR104PXG04 Octagonal Mounting Ring for Guarded Illuminated Push Buttons

Stainless Steel Flush Plate

| Package Quantity | Product Number | List Price GO-10P8 |
|------------------|----------------|--------------------|
| 1 | CR2940BD201D | \$18.00 |



CR104PXG07 Octagonal Mounting Ring for Non-Illuminated Selector Switches, Joysticks and Potentiometer Operators



CR104PXG104 Octagonal Ring Wrench



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Accessories, Components and Kits
600 Volts max. AC/DC
10 Amperes Continuous

Keys

| Description | For use with | Product Number | List Price GO-10P1 |
|----------------------------------|--|----------------|-----------------------|
| Spare standard cylinder lock key | Key-Operated Selection Switches | CR104PXK95 | \$3.60 |
| Spare CH501 cylinder lock key | Key-Operated Selection Switches | CR104PXK51 | \$3.60 |
| 1.5 mm hex key | Push-turn Switch Levers | CR104PXG107 | \$1.50 |
| 2.0 mm hex key | Standard Push Buttons, Push-turn Mushroom-head Push Buttons | CR104PXG108 | \$1.50 |
| 2.5 mm hex key | Potentiometer Operators, Push-turn Mushroom-head Push Buttons | CR104PXG109 | \$1.50 |

Display Panels

| Description | Product Number | List Price GO-10P1 |
|--|----------------|-----------------------|
| Assembled display panel- 4 operators | CR104PD001B | \$130.00 |
| Assembled display panel - 12 operators | CR104PD001A | \$300.00 |

Terminals

| Description | Product Number | List Price GO-10P1 |
|---|----------------|-----------------------|
| 100 quick-connect terminals For 9-position joystick contact blocks | CR104PXG102 | \$68.40 |

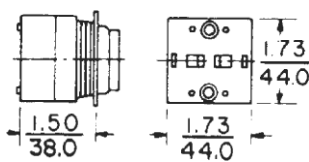
Modification Kits

| Kit Type | Description | Product Number | List Price GO-10P1 |
|--|---|---------------------------|-----------------------|
| Push-on/Push-off | Converts standard momentary operator to push-on/push-off | CR104PXF11 ^{1,2} | \$18.00 |
| Maintained Mechanical Latch for Two Push Buttons | Makes one standard or 1 3/8" mushroom-head push button a latch, another a release | CR104PXF21 ² | \$18.00 |
| Mechanical Interlock | Prevents simultaneous operation | CR104PXF23 ² | \$18.00 |
| Push-pull | Converts momentary mushroom-head push button to push-to-latch/pull-to-release | CR104PXF12 ² | \$18.00 |
| Lockout Attachment | Padlockable device to hold standard flush or extended push button in depressed position | CR104PXG13 | \$18.00 |
| Locking Cover | Padlockable clear cover for standard knob-operated selector switch | CR104PXG16 | \$18.00 |

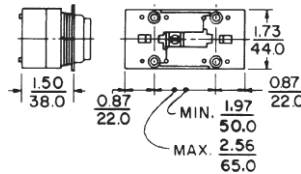
¹This kit can only be used with CR104PXC01 (NC) and/or CR104PXC10E (NO early closing contact blocks).

²Not for use with illuminated forms.

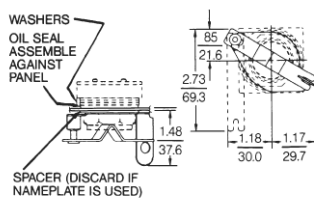
Outlines, Dimensions (in/mm) (For Estimating Only)



CR104PXF11, CR104PXF12
Modification Kit



CR104PXF21, CR104PXF23
Modification Kit



CR104PXG13
Modification Kit



CR104PD001A Display Panel
- 12 Operators



CR104PXF11 Modification Kit
- Push on/Push off



CR104PXF21 Modification Kit -
Maintained Mech. Latch for
2 Push Buttons



CR104PXG13 Lockout Attachment



CR104PXG16 Locking Cover



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

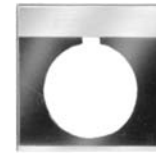
CR104P

Nameplates and Legend Inserts
600 Volts max. AC/DC
10 Amperes Continuous

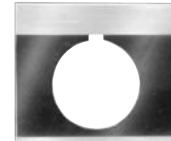
Nameplates—Standard Lithographed

Unless otherwise indicated, all nameplates are black and available in Sizes 1-3 only. To select size, replace asterisk (*) in product number with appropriate digit from Sizes table.

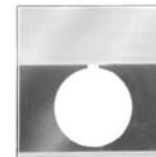
| Nameplate Marking | Product Number | List Price GO-10P1 |
|--|----------------|-----------------------|
| Blank (Sizes 1-5) | CR104PXN*B | \$1.80 |
| Blank (Red, sizes 1-5) | CR104PXN*R | \$1.80 |
| Blank (with round) | CR104PXN6E | \$2.50 |
| CLOSE | CR104PXN*BP006 | \$1.80 |
| DECREASE | CR104PXN*BP007 | \$1.80 |
| DOWN | CR104PXN*BP008 | \$1.80 |
| EMERGENCY STOP (Red) | CR104PXN*RP009 | \$1.80 |
| FAST | CR104PXN*BP010 | \$1.80 |
| FORWARD | CR104PXN*BP011 | \$1.80 |
| HIGH | CR104PXN*BP012 | \$1.80 |
| IN | CR104PXN*BP013 | \$1.80 |
| INCH | CR104PXN*BP014 | \$1.80 |
| INCREASE | CR104PXN*BP017 | \$1.80 |
| JOG | CR104PXN*BP018 | \$1.80 |
| JOG FORWARD | CR104PXN*BP019 | \$1.80 |
| JOG REVERSE | CR104PXN*BP020 | \$1.80 |
| LEFT | CR104PXN*BP021 | \$1.80 |
| LOW | CR104PXN*BP022 | \$1.80 |
| LOWER | CR104PXN*BP023 | \$1.80 |
| OFF | CR104PXN*BP024 | \$1.80 |
| ON | CR104PXN*BP025 | \$1.80 |
| OPEN | CR104PXN*BP026 | \$1.80 |
| OUT | CR104PXN*BP027 | \$1.80 |
| POWER ON | CR104PXN*BP084 | \$1.80 |
| RAISE | CR104PXN*BP028 | \$1.80 |
| RESET | CR104PXN*BP030 | \$1.80 |
| RETURN | CR104PXN*BP031 | \$1.80 |
| REVERSE | CR104PXN*BP032 | \$1.80 |
| RIGHT | CR104PXN*BP033 | \$1.80 |
| RUN | CR104PXN*BP034 | \$1.80 |
| SLOW | CR104PXN*BP036 | \$1.80 |
| START | CR104PXN*BP037 | \$1.80 |
| START CYCLE | CR104PXN*BP038 | \$1.80 |
| STOP (Red) | CR104PXN*RP040 | \$1.80 |
| STOP CYCLE (Red) | CR104PXN*RP041 | \$1.80 |
| TEST | CR104PXN*BP043 | \$1.80 |
| UP | CR104PXN*BP047 | \$1.80 |
| EMERGENCY STOP PULL TO TEST (Red) | CR104PXN*RP048 | \$1.80 |
| PUSH TO STOP PULL TO START | CR104PXN*BP085 | \$1.80 |
| FOR REV | CR104PXN*BP050 | \$1.80 |
| HAND AUTO | CR104PXN*BP051 | \$1.80 |
| HIGH LOW | CR104PXN*BP052 | \$1.80 |
| JOG RUN | CR104PXN*BP053 | \$1.80 |
| LEFT RIGHT | CR104PXN*BP054 | \$1.80 |
| LOW HIGH | CR104PXN*BP055 | \$1.80 |
| LOWER RAISE | CR104PXN*BP056 | \$1.80 |
| OFF ON | CR104PXN*BP057 | \$1.80 |
| OPEN CLOSE | CR104PXN*BP058 | \$1.80 |
| RAISE LOWER | CR104PXN*BP059 | \$1.80 |
| REV FOR | CR104PXN*BP060 | \$1.80 |
| RUN JOG | CR104PXN*BP061 | \$1.80 |
| SAFE RUN | CR104PXN*BP062 | \$1.80 |
| SAFE STOP RUN | CR104PXN*BP063 | \$1.80 |
| SLOW FAST | CR104PXN*BP064 | \$1.80 |
| START JOG | CR104PXN*BP087 | \$1.80 |
| START STOP | CR104PXN*BP086 | \$1.80 |
| STOP START | CR104PXN*BP065 | \$1.80 |
| UP DOWN | CR104PXN*BP066 | \$1.80 |
| OFF COOLANT ON | CR104PXN*BP067 | \$1.80 |
| AUTO OFF-HAND | CR104PXN*BP083 | \$1.80 |
| FOR OFF REV | CR104PXN*BP068 | \$1.80 |
| FOR STOP REV | CR104PXN*BP069 | \$1.80 |
| HAND OFF AUTO | CR104PXN*BP070 | \$1.80 |
| JOG OFF RUN | CR104PXN*BP071 | \$1.80 |
| JOG SAFE RUN | CR104PXN*BP072 | \$1.80 |
| LOW OFF HIGH | CR104PXN*BP073 | \$1.80 |
| LOWER OFF RAISE | CR104PXN*BP074 | \$1.80 |
| MAN OFF AUTO | CR104PXN*BP076 | \$1.80 |
| OPEN OFF CLOSE | CR104PXN*BP077 | \$1.80 |
| REV OFF FOR | CR104PXN*BP079 | \$1.80 |
| SLOW OFF FAST | CR104PXN*BP080 | \$1.80 |
| SLOW STOP FAST | CR104PXN*BP081 | \$1.80 |
| POTENTIOMETER MARKINGS | CR104PXN*BP082 | \$1.80 |
| OFF AUTO | CR104PXN1BP090 | \$1.80 |
| ON OFF AUTO | CR104PXN1BP091 | \$1.80 |
| PUSH TO STOP - TURN TO RESET (Round w/Yellow Background) | CR104PXN6EP092 | \$2.50 |
| Yellow Background Emergency Stop | CR104PXN6EP009 | \$2.50 |



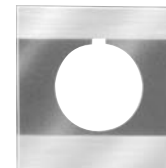
Standard (Size 1)



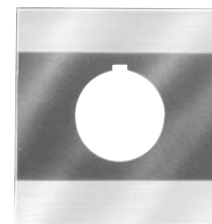
Large (Size 2)



Extra-large Automotive (Size 3)



Small Joystick (Size 4; available for XN*R and XN*B only)



Large Joystick (Size 5; available for XN*R and XN*B only)

Sizes*

| Nameplate | Dimensions (H x W, Inches) | *Product No. Digit |
|---|----------------------------|--------------------|
| Standard (Size 1) | 1.98 x 1.93 | 1 |
| Large (Size 2) | 1.98 x 2.63 | 2 |
| Extra-large, automotive (Size 3) | 2.40 x 2.44 | 3 ¹ |
| Small joystick (Size 4; available for XN*R and XN*B only) | 2.32 x 2.32 | 4 ¹ |
| Large joystick (Size 5; available for XN*R and XN*B only) | 2.92 x 2.92 | 5 ¹ |

¹These nameplates do not fit standard enclosures.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Nameplates and Legend Inserts
 600 Volts max. AC/DC
 10 Amperes Continuous

Nameplates-Nonstandard Engraved

Note limitations on number of characters per field. Specify marking desired, by field, for each nameplate ordered. To select color, replace asterisk (*) in product number with **B** for black field and letters and with **R** for red field and letters. For overall dimensions by nameplate size, see Sizes table, page 9-40.

| Style | Nameplate Size | Max. Characters per Field | Product Number | List Price GO-10P1 |
|-------|----------------|--------------------------------|----------------|-----------------------|
| | 1 | Field 1: 13 | CR104PXN1*B001 | \$7.80 |
| | 2 | Field 1: 16 | CR104PXN2*B001 | \$7.80 |
| | 3 | Field 1: 10 | CR104PXN3*B001 | \$7.80 |
| | 1 | Fields 1-2: 13 | CR104PXN1*C001 | \$7.80 |
| | 2 | Fields 1-2: 15 | CR104PXN2*C001 | \$7.80 |
| | 3 | Fields 1-2: 10 | CR104PXN3*C001 | \$7.80 |
| | 1 | Field 1: 13; Field 2: 7 | CR104PXN1*D001 | \$7.80 |
| | 2 | Field 1: 15; Field 2: 8 | CR104PXN2*D001 | \$7.80 |
| | 3 | Field 1: 10; Field 2: 5 | CR104PXN3*D001 | \$7.80 |
| | 1 | Field 1: 13; Field 2: 7 | CR104PXN1*E001 | \$7.80 |
| | 2 | Field 1: 15; Field 2: 8 | CR104PXN2*E001 | \$7.80 |
| | 3 | Field 1: 10; Field 2: 5 | CR104PXN3*E001 | \$7.80 |
| | 1 | Fields 1-2: 7 | CR104PXN1*F001 | \$7.80 |
| | 2 | Fields 1-2: 8 | CR104PXN2*F001 | \$7.80 |
| | 3 | Fields 1-2: 5 | CR104PXN3*F001 | \$7.80 |
| | 1 | Field 1: 13; Fields 2-3: 7 | CR104PXN1*G001 | \$7.80 |
| | 2 | Field 1: 15; Fields 2-3: 8 | CR104PXN2*G001 | \$7.80 |
| | 3 | Field 1: 10; Fields 2-3: 5 | CR104PXN3*G001 | \$7.80 |
| | 1 | Fields 1-4: 5 | CR104PXN1*H001 | \$7.80 |
| | 2 | Fields 1-4: 6 | CR104PXN2*H001 | \$7.80 |
| | 3 | Fields 1-4: 4 | CR104PXN3*H001 | \$7.80 |
| | 4 | Fields 1-2: 16 | CR104PXN4*J001 | \$7.80 |
| | 4 | Fields 1-2: 16; Fields 3-4: 8 | CR104PXN4*K001 | \$7.80 |
| | 5 | Fields 1-4: 18 | CR104PXN5*L001 | \$7.80 |
| | 5 | Fields 1-4: 18; Fields 5-8: 11 | CR104PXN5*M001 | \$7.80 |
| | 1 | Field 1: 13 | CR104PXN1*N001 | \$7.80 |
| | 2 | Field 1: 16 | CR104PXN2*N001 | \$7.80 |
| | 3 | Field 1: 10 | CR104PXN3*N001 | \$7.80 |

Legend Inserts

Legend insert kits for standard push buttons with clear caps feature three 2-sided inserts per kit.

| Product Number | List Price GO-10P1 |
|----------------|-----------------------|
| CR104PXG101 | \$1.80 |

| Insert | Side 1 | Side 2 |
|--------|--------|--------|
| 1 | | |
| 2 | | |
| 3 | | |

Legend Inserts



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

CR104P

Section 9

Hot Buttons
 Push Buttons
 600 Volts max. AC/DC
 10 Amperes Continuous

Description

Hot Buttons make it easier and faster than ever for you to get the most popular push buttons, pilot lights and selector switches. GE has taken its proven CR104P Heavy-Duty Oiltight push buttons, matched them with their logical and most often-used contacts and nameplates, and put them together. One product number, one box, one price.



Standard Non-Illuminated Push Button



Standard Illuminated Button with Guard



Mushroom-Head Non-Illuminated Push Button



Mushroom-Head Non-Illuminated Push-Pull Push Button



Mushroom-Head Non-Illuminated Push-Turn-to-Release Push Button



Mushroom-Head Illuminated Push-Pull Push Button

Standard Flush Non-Illuminated

| Contact Configuration | Marking | Color | Product Number | List Price GO-10P1 |
|-----------------------|---------|-----------------------------------|----------------|-----------------------|
| 1NO | START | 1 Each: Red, Green, Yellow, Black | CR104PBG10U1A1 | \$27.00 |
| 1NO | RUN | 1 Each: Red, Green, Yellow, Black | CR104PBG10U1A2 | \$27.00 |
| 1NO | ON | 1 Each: Red, Green, Yellow, Black | CR104PBG10U1A3 | \$27.00 |
| 1NC | STOP | 1 Each: Red, Green, Yellow, Black | CR104PBG01U1A1 | \$27.00 |
| 1NC | OFF | 1 Each: Red, Green, Yellow, Black | CR104PBG01U1A2 | \$27.00 |

Standard Extended Illuminated

| Guard | Contact Configuration | Marking | Color | Voltage | Product Number | List Price GO-10P1 |
|------------|-----------------------|---------|-------|------------------|------------------|-----------------------|
| with Guard | 1NO-1NC | START | Green | Transformer 120V | CR104PBT11G3S2A1 | \$90.00 |
| with Guard | 1NO-1NC | RUN | Green | Transformer 120V | CR104PBT11G3S2A2 | \$90.00 |
| with Guard | 1NO-1NC | ON | Green | Transformer 120V | CR104PBT11G3S2A3 | \$90.00 |
| with Guard | 1NO-1NC | STOP | Red | Transformer 120V | CR104PBT11R3S2A1 | \$90.00 |
| with Guard | 1NO-1NC | OFF | Red | Transformer 120V | CR104PBT11R3S2A2 | \$90.00 |

Mushroom-Head Non-Illuminated

| Head Size | Contact Configuration | Marking | Color | Product Number | List Price GO-10P1 |
|-------------|-----------------------|----------------|-------|----------------|-----------------------|
| 1 3/8" dia. | 1NC | EMERGENCY STOP | Red | CR104PBM01R5A | \$63.00 |

Special Function Non-Illuminated

| Special Function Type | Contact Configuration | Marking | Color | Product Number | List Price GO-10P1 |
|-----------------------|-----------------------|----------------------------|-------|------------------|-----------------------|
| Push-Pull | 1NC | PUSH TO STOP PULL TO START | Red | CR104PBM01R5CA1 | \$63.00 |
| Push-Pull | 1NC | EMERGENCY STOP | Red | CR104PBM01R5CA2 | \$63.00 |
| Push-Turn-to-Release | 1NC | EMERGENCY STOP | Red | CR104PTR20A0R01A | \$63.00 |

Special Function Illuminated

| Special Function Type | Contact Configuration | Marking | Color | Voltage | Product Number | List Price GO-10P1 |
|-----------------------|-----------------------|-------------------------------|-------|-------------------|------------------|-----------------------|
| Push-Pull | 1NO-1NC | PUSH TO STOP PULL TO START | Red | Transformer 120 V | CR104PBT11R5C2A1 | \$102.00 |
| Push-Pull | 1NO-1NC | EMERGENCY STOP | Red | Transformer 120 V | CR104PBT11R5C2A2 | \$102.00 |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

CR104P

Hot Buttons
600 Volts max. AC/DC
10 Amperes Continuous

Knob Selector Switches

| Position Type | Marking | Contact Configuration | Product Number | List Price GO-10P1 |
|-----------------------|---------------|-----------------------|----------------|-----------------------|
| 2-Position Maintained | OFF-ON | 1NO-1NC | CR104PSG21B91A | \$42.00 |
| 3-Position Maintained | HAND-OFF-AUTO | 1NO-1NC | CR104PSG34B91A | \$42.00 |



2-Position Maintained Selector Switch

Standard Pilot Lights

| Power Supply Type | Supply Voltage | Lamp Type | Marking | Color | Product Number | List Price GO-10P1 |
|-------------------|----------------|-------------------|---------|-------|----------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | ON | Red | CR104PLG32RA1 | \$66.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | ON | Red | CR104PLG22RA1 | \$54.00 |
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | OFF | Red | CR104PLG32RA2 | \$66.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | OFF | Red | CR104PLG22RA2 | \$54.00 |
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | OFF | Green | CR104PLG32GA2 | \$66.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | OFF | Green | CR104PLG22GA2 | \$54.00 |
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | ON | Green | CR104PLG32GA1 | \$66.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | ON | Green | CR104PLG22GA1 | \$54.00 |



3-Position Maintained Selector Switch

Push to Test Pilot Lights

| Power Supply Type | Supply Voltage | Lamp Type | Contact Configuration | Marking | Color | Product Number | List Price GO-10P1 |
|-------------------|----------------|-------------------|-----------------------|---------|-------|----------------|-----------------------|
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | ON | Red | CR104PLT32RA | \$84.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | ON | Red | CR104PLT22RA | \$72.00 |
| Transformer | 120V 50/60 Hz | Incand., 6V, #755 | 1NO-1NC | OFF | Green | CR104PLT32GA | \$84.00 |
| Full Voltage | 120V 50/60 Hz | Incand., 130V | 1NO-1NC | OFF | Green | CR104PLT22GA | \$72.00 |



Standard Pilot Light

Hot Buttons Display Rack

This convenient display allows Hot Buttons to be easily selected. The display may be a freestanding counter display or may be hung on the wall. The display (28"W x 15"H x 5"D) allows the distributor to showcase Hot Buttons to the customer and makes easy selection of the desired function. The display has a clear front, which allows ready view for stock replenishment. Also included are an attractive poster and a counter literature rack with promotional leaflets.

| Product Number | List Price GO-10P1 |
|-----------------|-----------------------|
| CR104PHBDISPLAY | \$200.00 |



Press-to-Test Pilot Light



Hot Buttons Display Rack



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Enclosures and Stations
600 Volts Max. AC/DC
10 Amperes Continuous

Product Number Selection Instructions

CR104PE enclosures are available in painted sheet steel or in stainless steel, with from one to 25 operator openings. Choose the enclosure only or the enclosure assembled with your choice of unwired operators.

Assembled stations, as well as unassembled, are available in the following NEMA types:

- NEMA 1 (CR104PEX11C)
- NEMA 12 and 13 (CR104PEG11C)
- NEMA 4, 4X, 12, and 13 (CR104PES11C)

Inclusion of a CR104PTP push button does not allow a NEMA 3, 3R, 4, or 4X rating.

Some common combinations of devices may be ordered by complete part number for NEMA enclosures as listed in the table below.

One-step selection and pricing.



1 Unit Painted Steel Station

Assembled with Push Buttons and Fixed Legends NEMA Type 1

| Units per Station | Nameplate Marking | Color | Other Features ¹ | Product Number | List Price GO-10P1 |
|-------------------|----------------------|---------------------|--|----------------|-----------------------|
| 1 | START | Green | | CR104PEX11C | \$84.00 |
| 1 | STOP | Red | Extended button | CR104PEX11D | \$84.00 |
| 1 | EMERGENCY STOP | Red | Red Mushroom-Head | CR104PEX11S | \$102.00 |
| 1 | JOG | Black | | CR104PEX11R | \$84.00 |
| 1 | HAND-AUTO | Black | 2-position selector switch | CR104PEX11T | \$90.00 |
| 1 | FORWARD-REVERSE | Black | 2-position selector switch | CR104PEX11W | \$90.00 |
| 1 | OFF-ON | Black | 2-position selector switch | CR104PEX11B1 | \$90.00 |
| 1 | OPEN-CLOSE | Black | 2-position selector switch | CR104PEX11C1 | \$90.00 |
| 1 | HAND-OFF-AUTO | Black | 3-position selector switch | CR104PEX11E | \$90.00 |
| 2 | START-STOP | Green - Red | Extended red stop button | CR104PEX12G | \$122.00 |
| 2 | FORWARD-REVERSE | Black - Black | | CR104PEX12H | \$122.00 |
| 2 | RAISE-LOWER | Black - Black | | CR104PEX12J | \$122.00 |
| 2 | OPEN-CLOSE | Black - Black | | CR104PEX12K | \$122.00 |
| 2 | START-STOP | Green - Red | Maintained contact button | CR104PEX12D1 | \$122.00 |
| 3 | FORWARD-REVERSE-STOP | Black - Black - Red | Extended red stop button | CR104PEX13M | \$170.00 |
| 3 | RAISE-LOWER-STOP | Black - Black - Red | Extended red stop button | CR104PEX13N | \$170.00 |
| 3 | OPEN-CLOSE-STOP | Black - Black - Red | Extended red stop button | CR104PEX13P | \$170.00 |
| 3 | START-STOP | Green - Red | FV 110-125V red light at top; extended red stop button | CR104PEX13E1 | \$188.00 |



2 Unit Station

Assembled with Push Buttons and Fixed Legends NEMA Type 12

| Units per Station | Nameplate Marking | Color | Other Features ¹ | Product Number | List Price GO-10P1 |
|-------------------|----------------------|---------------------|--|----------------|-----------------------|
| 1 | START | Green | | CR104PEG11C | \$96.00 |
| 1 | STOP | Red | Extended button | CR104PEG11D | \$96.00 |
| 1 | EMERGENCY STOP | Red | Red Mushroom-Head | CR104PEG11S | \$114.00 |
| 1 | JOG | Black | | CR104PEG11R | \$96.00 |
| 1 | HAND-AUTO | Black | 2-position selector switch | CR104PEG11T | \$102.00 |
| 1 | FORWARD-REVERSE | Black | 2-position selector switch | CR104PEG11W | \$102.00 |
| 1 | OFF-ON | Black | 2-position selector switch | CR104PEG11B1 | \$102.00 |
| 1 | OPEN-CLOSE | Black | 2-position selector switch | CR104PEG11C1 | \$102.00 |
| 1 | HAND-OFF-AUTO | Black | 3-position selector switch | CR104PEG11E | \$102.00 |
| 2 | START-STOP | Green - Red | Extended red stop button | CR104PEG12G | \$138.00 |
| 2 | FORWARD-REVERSE | Black - Black | | CR104PEG12H | \$138.00 |
| 2 | RAISE-LOWER | Black - Black | | CR104PEG12J | \$138.00 |
| 2 | OPEN-CLOSE | Black - Black | | CR104PEG12K | \$138.00 |
| 2 | START-STOP | Green - Red | Maintained contact button | CR104PEG12D1 | \$138.00 |
| 3 | FORWARD-REVERSE-STOP | Black - Black - Red | Extended red stop button | CR104PEG13M | \$186.00 |
| 3 | RAISE-LOWER-STOP | Black - Black - Red | Extended red stop button | CR104PEG13N | \$186.00 |
| 3 | OPEN-CLOSE-STOP | Black - Black - Red | Extended red stop button | CR104PEG13P | \$186.00 |
| 3 | START-STOP | Green - Red | FV 110-125V red light at top; extended red stop button | CR104PEG13E1 | \$204.00 |

¹All units include 1NO-1NC contact, each device.



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plan and Dimensions: See pages 9-57

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Enclosures and Stations
 600 Volts max. AC/DC
 10 Amperes Continuous

To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

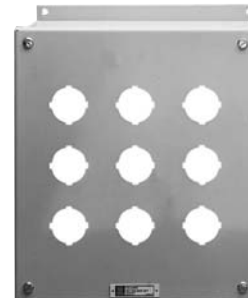
Assembled Unwired-Surface Mounted

| Enclosure Type | Enclosure Material | Enclosure Holes | Product Number | List Price GO-10P1 |
|--------------------------------|---------------------|-----------------|--------------------------|-----------------------|
| NEMA Type 1 | Sheet Steel | 1 | CR104PEX11B | \$48.00 |
| NEMA Type 1 | Sheet Steel | 2 | CR104PEX12B | \$56.00 |
| NEMA Type 1 | Sheet Steel | 3 | CR104PEX13B | \$68.00 |
| NEMA Type 1 | Sheet Steel | 4 | CR104PEX14B ¹ | \$100.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 1 | CR104PEG11B | \$60.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 2 | CR104PEG12B | \$72.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 3 | CR104PEG13B | \$84.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 4 | CR104PEG14B ¹ | \$102.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 4 | CR104PEG22B | \$102.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 6 | CR104PEG23B | \$126.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 9 | CR104PEG33B | \$162.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 12 | CR104PEG34B | \$204.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 16 | CR104PEG44B | \$258.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 20 | CR104PEG45B | \$312.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 25 | CR104PEG55B | \$372.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 1 | CR104PES11B | \$126.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 2 | CR104PES12B | \$138.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 3 | CR104PES13B | \$186.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 4 | CR104PES14B ¹ | \$240.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 4 | CR104PES22B | \$240.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 6 | CR104PES23B | \$348.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 9 | CR104PES33B | \$438.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 12 | CR104PES34B | \$534.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 16 | CR104PES44B | \$702.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 20 | CR104PES45B | \$792.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 25 | CR104PES55B | \$1032.00 |

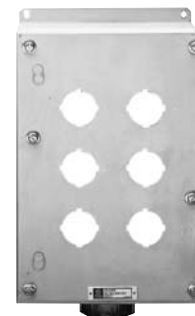
Does not include push buttons: see ordering instructions above.

Price listed for Assembled Unwired Station is for devices.

¹Four vertical openings.



Painted Sheet Steel Enclosure



Stainless Steel Enclosure



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories CR104P

Section 9

Enclosures and Stations
600 Volts max. AC/DC
10 Amperes Continuous

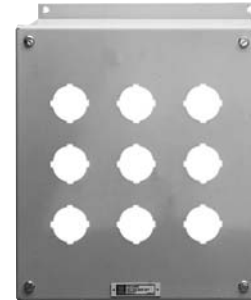
To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

Enclosure Only—Surface Mounted

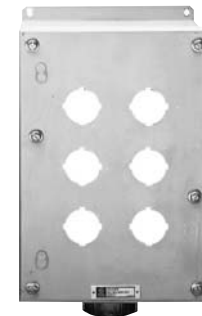
| Enclosure Type | Enclosure Material | Enclosure Holes | Product Number | List Price GO-10P1 |
|--------------------------------|---------------------|-----------------|-------------------------|-----------------------|
| NEMA Type 1 | Sheet Steel | 1 | CR104PEX11 | \$30.00 |
| NEMA Type 1 | Sheet Steel | 2 | CR104PEX12 | \$32.00 |
| NEMA Type 1 | Sheet Steel | 3 | CR104PEX13 | \$38.00 |
| NEMA Type 1 | Sheet Steel | 4 | CR104PEX14 ¹ | \$64.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 1 | CR104PEG11 | \$42.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 2 | CR104PEG12 | \$48.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 3 | CR104PEG13 | \$54.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 4 | CR104PEG14 ¹ | \$66.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 4 | CR104PEG22 | \$66.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 6 | CR104PEG23 | \$78.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 9 | CR104PEG33 | \$96.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 12 | CR104PEG34 | \$120.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 16 | CR104PEG44 | \$150.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 20 | CR104PEG45 | \$180.00 |
| NEMA Type 1, 3, 3R, 12, 13 | Painted Sheet Steel | 25 | CR104PEG55 | \$210.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 1 | CR104PES11 | \$108.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 2 | CR104PES12 | \$114.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 3 | CR104PES13 | \$156.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 4 | CR104PES14 ¹ | \$204.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 4 | CR104PES22 | \$204.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 6 | CR104PES23 | \$300.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 9 | CR104PES33 | \$372.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 12 | CR104PES34 | \$450.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 16 | CR104PES44 | \$594.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 20 | CR104PES45 | \$660.00 |
| NEMA Type 3, 3R, 4, 4X, 12, 13 | Stainless Steel | 25 | CR104PES55 | \$840.00 |

Does not include push buttons: see ordering instructions above.

¹Four vertical openings.



Painted Sheet Steel Enclosure



Stainless Steel Enclosure



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-56 to 9-57
Drilling Plan and Dimensions: See pages 9-57

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Enclosures

Outlines and Dimensions in. (mm) (For Estimating Only)

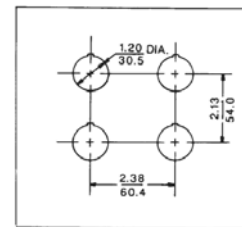
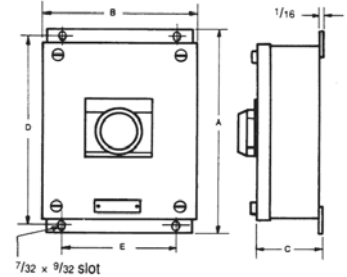
600 Volts max. AC/DC

10 Amperes Continuous

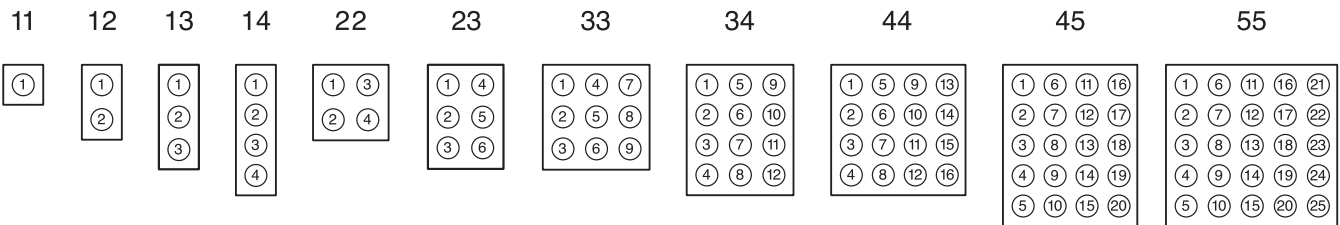
Enclosure Dimensions

| Enclosure Holes | Dimension A in. (mm) | Dimension B in. (mm) | Dimension C in. (mm) | Dimension D in. (mm) | Dimension E in. (mm) | Hub Dimension (in) |
|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
| 1 | 5.50 (139.7) | 3.50 (88.9) | 4.25 (108.0) | 5.00 (127.0) | 2.38 (60.4) | 0.75 |
| 2 | 7.75 (196.8) | 3.50 (88.9) | 4.25 (108.0) | 7.25 (184.2) | 2.38 (60.4) | 0.75 |
| 3 | 10.00 (254.0) | 3.50 (88.9) | 4.25 (108.0) | 9.50 (241.3) | 2.38 (60.4) | 0.75 |
| 4 ¹ | 13.38 (339.8) | 3.50 (88.9) | 4.25 (108.0) | 12.88 (327.2) | 2.38 (60.4) | 1 |
| 4 | 8.25 (209.6) | 6.50 (165.1) | 4.25 (108.0) | 7.75 (196.8) | 5.38 (136.6) | 1 |
| 6 | 10.50 (266.7) | 7.00 (177.8) | 4.25 (108.0) | 10.00 (254.0) | 5.88 (149.4) | 1.25 |
| 9 | 10.50 (266.7) | 9.25 (235.0) | 4.25 (108.0) | 10.00 (254.0) | 8.19 (208.0) | 1.5 |
| 12 | 12.75 (323.8) | 9.25 (235.0) | 4.25 (108.0) | 12.25 (311.2) | 8.19 (208.0) | 1.5 |
| 16 | 12.75 (323.8) | 11.50 (292.1) | 4.25 (108.0) | 12.25 (311.2) | 10.38 (263.6) | 1.5 |
| 20 | 15.00 (381.0) | 11.50 (292.1) | 4.25 (108.0) | 14.50 (368.3) | 10.38 (263.6) | 1.5 |
| 25 | 15.00 (381.0) | 13.75 (249.2) | 4.25 (108.0) | 14.50 (368.3) | 12.63 (320.8) | 1.5 |

¹Four vertical openings.



Enclosure Dimensions and Hole Spacing in Listed Standard Enclosures



Product Numbers: Position of Units CR104PEG__ or S __ *

*Add Suffix B for assembled unwired station.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

Section 9

CR2943, CR2941

Push Button Stations
600 Volts max. AC/DC
10 Amperes Continuous

Application

Standard-duty push button stations are designed for all normal START-STOP and REVERSE operations with ac magnetic starters, NEMA Sizes 00-4. Contact ratings are 10 Amperes carry, 600 Volts maximum, 30 amperes make and three amperes break at 100-125 Volts ac.

Features

- Easy-to-operate buttons**—large concave buttons operate easily, even when gloves are worn.
- Long-life contact**—large silver contacts provide positive closure and assure a good connection.
- Positive make and break**—strong springs behind buttons reduce the chances of contact freezing or accidental closure from machine vibration.
- Extra safety**—an insulating strip between the terminals and back of the enclosure helps prevent electrical shorting.

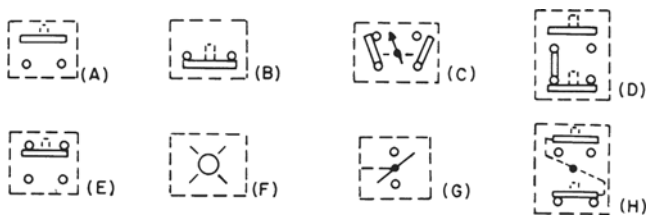
Product Number Selection Instructions

Order push button station by complete Product Number.

1. Example: CR2943NJ202A at **\$114.00, GO-10P4**.
2. Example: CR2943NB302—START-STOP Station at **\$51.00, GO-10P4**. CR2943XB332A—Wall box for START-STOP Station at **\$21.00, GO-10P4**.

Contact Ratings

| Volts | Carry Continuous Amperes | Make Momentary Amperes | Break-Amperes | |
|---------|--------------------------------|------------------------------|----------------|--------------------------|
| | | | AC Circuits | DC Inductive Circuits |
| 110-125 | 10 | 30 | 3.0 | 1.1 |
| 220-250 | 10 | 15 | 1.5 | 0.55 |
| 440-480 | 10 | 7.5 | .75 | — |
| 550-600 | 10 | .6 | .6 | 0.2 |



Wiring Symbols (As noted in tables)

Reference Publications

| | |
|---------------|----------|
| Instructions | GEH-1092 |
| Renewal parts | GEF-4064 |



CR2943 General-Purpose Surface-Mounted Station



CR2943 General-Purpose Flush-Mounted Station



CR2943 Flush-Mounted Station with Wall Box Attached



Wall Box



CR2943 Flush-Mounted Station with Miniature Unit



Pilot and Signaling Devices

Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943, CR2941

Push Button Stations

Surface-Mounted

600 Volts max. AC/DC

10 Amperes Continuous

One-Unit Stations (momentary contact—except selector switches)

| Enclosure Type | Function | Nameplate Marking | Color | Wiring Symbol Reference ⁵ | Position Type | Contact Arrangement | Lockable | Product Number | List Price GO-10P4 |
|----------------|-----------------|-------------------|-------|--------------------------------------|---------------|---------------------|-----------------|---------------------------|--------------------|
| NEMA Type 1 | Push Button | START | Black | (A) | - | - | - | CR2943NA101E | \$36.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AA101B ¹ | \$36.00 |
| NEMA Type 1 | Push Button | STOP | Red | (B) | - | - | - | CR2943NA101F | \$36.00 |
| NEMA Type 1 | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AA101A ¹ | \$36.00 |
| NEMA Type 1 | Push Button | STOP | Red | (B) | - | - | Device Included | CR2943NA101G | \$54.00 |
| NEMA Type 1 | Push Button | (As Specified) | Red | (B) | - | - | Device Included | CR2943AA101E ¹ | \$54.00 |
| NEMA Type 1 | Selector Switch | (As Specified) | Black | (C) | 2-Position | SPDT | - | CR2943AA101S ² | \$36.00 |
| NEMA Type 1 | Selector Switch | (As Specified) | Black | (C) | 3-Position | SPDT | - | CR2943AA101M ³ | \$36.00 |
| NEMA Type 4 | Push Button | START | Black | (A) | - | - | - | CR2943NJ201B | \$114.00 |
| NEMA Type 4 | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AJ201A | \$114.00 |
| NEMA Type 4 | Push Button | STOP | Red | (B) | - | - | Device Included | CR2943NJ201A ⁴ | \$114.00 |
| NEMA Type 4 | Push Button | (As Specified) | Red | (B) | - | - | Device Included | CR2943AJ201A ⁴ | \$114.00 |
| NEMA Type 4X | Push Button | START | Black | (A) | - | - | - | CR2943NJ301B | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AJ301B ¹ | \$114.00 |
| NEMA Type 4X | Push Button | STOP | Red | (B) | - | - | - | CR2943NJ301A | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AJ301A ¹ | \$114.00 |
| NEMA Type 4X | Push Button | STOP | Red | (B) | - | - | Device Included | CR2943NJ301C | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Red | (B) | - | - | Device Included | CR2943AJ301C ¹ | \$114.00 |
| NEMA Type 7 | Push Button | START | Black | (A) | - | - | - | CR2941NA101B | \$138.00 |
| NEMA Type 9 | | | | | | | | | |
| NEMA Type 7 | Push Button | (As Specified) | Black | (A) | - | - | - | CR2941AA101T ¹ | \$138.00 |
| NEMA Type 9 | | | | | | | | | |
| NEMA Type 7 | Push Button | STOP | Red | (B) | - | - | Device Included | CR2941NA101A ⁴ | \$138.00 |
| NEMA Type 9 | | | | | | | | | |

¹Add \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²Five N.P.'s included: OFF-ON, FORWARD-REVERSE, HAND-AUTO, SLOW-FAST and OPEN-CLOSE.

³Three N.P.'s included: HAND-OFF-AUTO, FORWARD-OFF-REVERSE and OPEN-OFF-CLOSE.

⁴Includes hole for padlock on STOP.

⁵See page 9-48 for Wiring Symbols.

Two-Unit Stations (momentary contact)

| Enclosure Type | Function | Nameplate Marking | Color | Wiring Symbol Reference ⁵ | Lockable | Product Number | List Price GO-10P4 |
|----------------|-------------|-------------------|---------------|--------------------------------------|-----------------|----------------------------|--------------------|
| NEMA Type 1 | Push Button | START-STOP | Black - Red | (D) | - | CR2943NA102A | \$36.00 |
| NEMA Type 1 | Push Button | START-STOP | Black - Red | (D) | Bar Included | CR2943NA102C | \$54.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black - Red | (A), (B) | - | CR2943AA102H ¹ | \$36.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black - Red | (A), (B) | Device Included | CR2943AA102AF ¹ | \$54.00 |
| NEMA Type 1 | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NA102B | \$45.00 |
| NEMA Type 1 | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NA102D | \$45.00 |
| NEMA Type 1 | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NA102E | \$45.00 |
| NEMA Type 1 | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NA102G | \$45.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AA102A ¹ | \$45.00 |
| NEMA Type 4 | Push Button | START-STOP | Black - Red | (A), (B) | Device Included | CR2943NJ202A ⁴ | \$114.00 |
| NEMA Type 4 | Push Button | (As Specified) | Black - Red | (A), (B) | Device Included | CR2943AJ202A ⁴ | \$114.00 |
| NEMA Type 4 | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NJ202F | \$114.00 |
| NEMA Type 4 | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NJ202E | \$114.00 |
| NEMA Type 4 | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NJ202G | \$114.00 |
| NEMA Type 4 | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NJ202H | \$114.00 |
| NEMA Type 4 | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AJ202B | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Black - Red | (A), (B) | - | CR2943AJ302B ¹ | \$114.00 |
| NEMA Type 4X | Push Button | START-STOP | Black - Red | (A), (B) | Device Included | CR2943NJ302A | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Black - Red | (A), (B) | Device Included | CR2943AJ302A ¹ | \$114.00 |
| NEMA Type 4X | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NJ302F | \$114.00 |
| NEMA Type 4X | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NJ302E | \$114.00 |
| NEMA Type 4X | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NJ302G | \$114.00 |
| NEMA Type 4X | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NJ302H | \$114.00 |
| NEMA Type 4X | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AJ302C ¹ | \$114.00 |
| NEMA Type 7 | Push Button | START-STOP | Black - Red | (A), (B) | Device Included | CR2941NA102B ⁴ | \$138.00 |
| NEMA Type 9 | | | | | | | |
| NEMA Type 7 | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2941NA102G | \$138.00 |
| NEMA Type 9 | | | | | | | |
| NEMA Type 7 | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2941NA102F | \$138.00 |
| NEMA Type 9 | | | | | | | |
| NEMA Type 7 | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2941NA102H | \$138.00 |
| NEMA Type 9 | | | | | | | |
| NEMA Type 7 | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2941NA102J | \$138.00 |
| NEMA Type 9 | | | | | | | |
| NEMA Type 7 | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2941AA102B ¹ | \$138.00 |
| NEMA Type 9 | | | | | | | |

¹Add \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

⁴Includes hole for padlock on STOP.

⁵See page 9-48 for Wiring Symbols. If two references, first is for left button color; second is for second button color, shown on right.



Pilot and Signaling Devices Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943, CR2941

Push Button Stations
 Surface-Mounted
 600 Volts max. AC/DC
 10 Amperes Continuous

Two-Unit Stations (maintained contact)

| Enclosure Type | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Lockable | Product Number | List Price GO-10P4 |
|----------------|-------------|-------------------|---------------|--------------------------------------|----------|----------------|-----------------------|
| NEMA Type 1 | Push Button | START-STOP | Black - Red | (H) | - | CR2943NA102W | \$54.00 |
| NEMA Type 1 | Push Button | ON-OFF | Black - Black | (H) | - | CR2943NA102X | \$54.00 |

²See page 9-48 for Wiring Symbols.

Three-Unit Stations (momentary contact)

| Enclosure Type | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Lockable | Voltage | Product Number | List Price GO-10P4 |
|----------------|-------------|----------------------|---------------------|--------------------------------------|--------------|----------|----------------------------|-----------------------|
| NEMA Type 1 | Push Button | UP-DOWN-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103F | \$72.00 |
| NEMA Type 1 | Push Button | RAISE-LOWER-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103G | \$72.00 |
| NEMA Type 1 | Push Button | FAST-SLOW-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103H | \$72.00 |
| NEMA Type 1 | Push Button | FORWARD-REVERSE-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103J | \$72.00 |
| NEMA Type 1 | Push Button | OPEN-CLOSE-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103K | \$72.00 |
| NEMA Type 1 | Push Button | START-JOG-STOP | Black - Black - Red | (E), (E), (B) | - | - | CR2943NA103L | \$72.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | - | - | CR2943AA103AA ¹ | \$72.00 |
| NEMA Type 1 | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | Bar Included | - | CR2943AA103C ¹ | \$90.00 |
| NEMA Type 1 | Pilot Light | START-STOP | Red - Black | (B), (F), (A) | - | 115/230V | CR2943NA103V | \$132.00 |

¹Add \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²See page 9-48 for Wiring Symbols. If three references are shown, first reference is for first button color (left), second for center button color, and third for right button color.

Three-Unit Stations (maintained contact)

| Enclosure type | Function ² | Nameplate Marking | Color | Wiring Symbol Reference ² | Voltage | Product Number | List Price GO-10P4 |
|----------------|-----------------------|-------------------|-------------|--------------------------------------|----------|----------------|-----------------------|
| NEMA Type 1 | Pilot Light (F) | START-STOP | Black - Red | (H) | 115/230V | CR2943NA103Y | \$150.00 |

²See page 9-48 for Wiring Symbols.



Product Number Selection Instructions: See pages 9-48

Pilot and Signaling Devices

Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943

Push Button Stations

Flush-Mounted

NEMA Type 1

600 Volts max. AC/DC

10 Amperes Continuous

Wall Boxes

Separate wall boxes are available for use with flush-mounted stations listed below as “less wall box.” They can be installed during wall construction.

| Units per Station | Product Number | List Price GO-10P4 |
|-------------------|----------------|-----------------------|
| 1, 2 | CR2943XB332A | \$21.00 |
| 3 | CR2943XB333A | \$21.00 |

One-Unit Stations (momentary contact—except selector switches)

| Flush Plate Form | With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Position Type | Contact Arrangement | Lockable | Product Number | List Price GO-10P4 |
|------------------|---------------|-----------------|-------------------|-------|--------------------------------------|---------------|---------------------|--------------|---------------------------|--------------------|
| Gray | No | Push Button | START | Black | (A) | - | - | - | CR2943NB301A | \$45.00 |
| Gray | No | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AB301A ¹ | \$45.00 |
| Gray | No | Push Button | STOP | Red | (B) | - | - | - | CR2943NB301B | \$45.00 |
| Gray | No | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AB301B ¹ | \$45.00 |
| Gray | No | Push Button | STOP | Red | (B) | - | - | Bar Included | CR2943NB301C | \$63.00 |
| Gray | No | Push Button | (As Specified) | Red | (B) | - | - | Bar Included | CR2943AB301C ¹ | \$63.00 |
| Gray | No | Selector Switch | STOP-START | - | (C) | 2-Position | SPDT | - | CR2943NB301D | \$45.00 |
| Gray | No | Selector Switch | OFF-ON | - | (C) | 2-Position | SPDT | - | CR2943NB301E | \$45.00 |
| Gray | No | Selector Switch | (As Specified) | - | (C) | 2-Position | SPDT | - | CR2943AB301D ¹ | \$45.00 |
| Gray | No | Selector Switch | HAND-OFF-AUTO | - | (C) | 3-Position | SPDT | - | CR2943NB301F | \$45.00 |
| Gray | No | Selector Switch | (As Specified) | - | (C) | 3-Position | SPDT | - | CR2943AB301E ¹ | \$45.00 |
| Gray | Yes | Push Button | START | Black | (A) | - | - | - | CR2943NB331A | \$66.00 |
| Gray | Yes | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AB331A ¹ | \$66.00 |
| Gray | Yes | Push Button | STOP | Red | (B) | - | - | - | CR2943NB331B | \$66.00 |
| Gray | Yes | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AB331B ¹ | \$66.00 |
| Gray | Yes | Push Button | STOP | Red | (B) | - | - | Bar Included | CR2943NB331C | \$84.00 |
| Gray | Yes | Push Button | (As Specified) | Red | (B) | - | - | Bar Included | CR2943AB331C ¹ | \$84.00 |
| Gray | Yes | Selector Switch | STOP-START | - | (C) | 2-Position | SPDT | - | CR2943NB331D | \$66.00 |
| Gray | Yes | Selector Switch | OFF-ON | - | (C) | 2-Position | SPDT | - | CR2943NB331E | \$66.00 |
| Gray | Yes | Selector Switch | (As Specified) | - | (C) | 2-Position | SPDT | - | CR2943AB331D ¹ | \$66.00 |
| Gray | Yes | Selector Switch | HAND-OFF-AUTO | - | (C) | 3-Position | SPDT | - | CR2943NB331F | \$66.00 |
| Gray | Yes | Selector Switch | (As Specified) | - | (C) | 3-Position | SPDT | - | CR2943AB331E ¹ | \$66.00 |
| Stainless-Steel | No | Push Button | START | Black | (A) | - | - | - | CR2943NB301G | \$48.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AB301G ¹ | \$48.00 |
| Stainless-Steel | No | Push Button | STOP | Red | (B) | - | - | - | CR2943NB301H | \$48.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AB301H ¹ | \$48.00 |
| Stainless-Steel | No | Push Button | STOP | Red | (B) | - | - | Bar Included | CR2943NB301J | \$66.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Red | (B) | - | - | Bar Included | CR2943AB301J ¹ | \$66.00 |
| Stainless-Steel | No | Selector Switch | STOP-START | - | (C) | 2-Position | SPDT | - | CR2943NB301K | \$48.00 |
| Stainless-Steel | No | Selector Switch | OFF-ON | - | (C) | 2-Position | SPDT | - | CR2943NB301L | \$48.00 |
| Stainless-Steel | No | Selector Switch | (As Specified) | - | (C) | 2-Position | SPDT | - | CR2943AB301K ¹ | \$48.00 |
| Stainless-Steel | No | Selector Switch | HAND-OFF-AUTO | - | (C) | 3-Position | SPDT | - | CR2943NB301M | \$48.00 |
| Stainless-Steel | No | Selector Switch | (As Specified) | - | (C) | 3-Position | SPDT | - | CR2943AB301L ¹ | \$48.00 |
| Stainless-Steel | Yes | Push Button | START | Black | (A) | - | - | - | CR2943NB331G | \$69.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black | (A) | - | - | - | CR2943AB331F ¹ | \$69.00 |
| Stainless-Steel | Yes | Push Button | STOP | Red | (B) | - | - | - | CR2943NB331H | \$69.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Red | (B) | - | - | - | CR2943AB331G ¹ | \$69.00 |
| Stainless-Steel | Yes | Push Button | STOP | Red | (B) | - | - | Bar Included | CR2943NB331J | \$87.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Red | (B) | - | - | Bar Included | CR2943AB331J ¹ | \$87.00 |
| Stainless-Steel | Yes | Selector Switch | STOP-START | - | (C) | 2-Position | SPDT | - | CR2943NB331K | \$69.00 |
| Stainless-Steel | Yes | Selector Switch | OFF-ON | - | (C) | 2-Position | SPDT | - | CR2943NB331L | \$69.00 |
| Stainless-Steel | Yes | Selector Switch | (As Specified) | - | (C) | 2-Position | SPDT | - | CR2943AB331K ¹ | \$69.00 |
| Stainless-Steel | Yes | Selector Switch | HAND-OFF-AUTO | - | (C) | 3-Position | SPDT | - | CR2943NB331M | \$69.00 |
| Stainless-Steel | Yes | Selector Switch | (As Specified) | - | (C) | 3-Position | SPDT | - | CR2943AB331H ¹ | \$69.00 |

¹Add \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²See page 9-48 for Wiring Symbols.



Pilot and Signaling Devices Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943

Push Button Stations
 Flush-Mounted
 NEMA Type 1
 600 Volts max. AC/DC
 10 Amperes Continuous

Two-Unit Stations (momentary contact)

| Flush Plate Form | With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Lockable | Product Number | List Price GO-10P4 |
|------------------|---------------|-------------|-------------------|---------------|--------------------------------------|--------------|---------------------------|--------------------|
| Gray | No | Push Button | START-STOP | Black - Red | (D) | - | CR2943NB302A | \$45.00 |
| Gray | No | Push Button | (As Specified) | Black - Red | (D) | - | CR2943AB302A ¹ | \$45.00 |
| Gray | No | Push Button | START-STOP | Black - Red | (D) | Bar Included | CR2943NB302B | \$63.00 |
| Gray | No | Push Button | (As Specified) | Black - Red | (D) | Bar Included | CR2943AB302B ¹ | \$63.00 |
| Gray | No | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NB302D | \$54.00 |
| Gray | No | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NB302C | \$54.00 |
| Gray | No | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NB302E | \$54.00 |
| Gray | No | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NB302F | \$54.00 |
| Gray | No | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AB302C ¹ | \$54.00 |
| Gray | Yes | Push Button | START-STOP | Black - Red | (D) | - | CR2943NB332A | \$66.00 |
| Gray | Yes | Push Button | (As Specified) | Black - Red | (D) | - | CR2943AB332A ¹ | \$66.00 |
| Gray | Yes | Push Button | START-STOP | Black - Red | (D) | Bar Included | CR2943NB332B | \$84.00 |
| Gray | Yes | Push Button | (As Specified) | Black - Red | (D) | Bar Included | CR2943AB332B ¹ | \$84.00 |
| Gray | Yes | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NB332D | \$75.00 |
| Gray | Yes | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NB332C | \$75.00 |
| Gray | Yes | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NB332E | \$75.00 |
| Gray | Yes | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NB332F | \$75.00 |
| Gray | Yes | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AB332C ¹ | \$75.00 |
| Stainless-Steel | No | Push Button | START-STOP | Black - Red | (D) | - | CR2943NB302G | \$51.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black - Red | (D) | - | CR2943AB302E ¹ | \$51.00 |
| Stainless-Steel | No | Push Button | START-STOP | Black - Red | (D) | Bar Included | CR2943NB302H | \$69.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black - Red | (D) | Bar Included | CR2943AB302H ¹ | \$69.00 |
| Stainless-Steel | No | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NB302K | \$60.00 |
| Stainless-Steel | No | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NB302J | \$60.00 |
| Stainless-Steel | No | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NB302L | \$60.00 |
| Stainless-Steel | No | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NB302M | \$60.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AB302D ¹ | \$60.00 |
| Stainless-Steel | Yes | Push Button | START-STOP | Black - Red | (D) | - | CR2943NB332G | \$72.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black - Red | (D) | - | CR2943AB332G ¹ | \$72.00 |
| Stainless-Steel | Yes | Push Button | START-STOP | Black - Red | (D) | Bar Included | CR2943NB332H | \$90.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black - Red | (D) | Bar Included | CR2943AB332H ¹ | \$90.00 |
| Stainless-Steel | Yes | Push Button | RAISE-LOWER | Black - Black | (A), (A) | - | CR2943NB332K | \$81.00 |
| Stainless-Steel | Yes | Push Button | FORWARD-REVERSE | Black - Black | (A), (A) | - | CR2943NB332J | \$81.00 |
| Stainless-Steel | Yes | Push Button | UP-DOWN | Black - Black | (A), (A) | - | CR2943NB332L | \$81.00 |
| Stainless-Steel | Yes | Push Button | OPEN-CLOSE | Black - Black | (A), (A) | - | CR2943NB332M | \$81.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black - Black | (A), (A) | - | CR2943AB332D ¹ | \$81.00 |

¹Add \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²See page 9-48 for Wiring Symbols. If two references are shown, first reference is left button color; second is right button color.

Two-Unit Stations (maintained contact)

| Flush Plate Form | With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Product Number | List Price GO-10P4 |
|------------------|---------------|-------------|-------------------|---------------|--------------------------------------|---------------------------|--------------------|
| Gray | No | Push Button | START-STOP | Black - Red | (H) | CR2943NB302Q | \$63.00 |
| Gray | No | Push Button | (As Specified) | Black - Red | (H) | CR2943AB302M ¹ | \$63.00 |
| Gray | No | Push Button | ON-OFF | Black - Black | (H) | CR2943NB302R | \$63.00 |
| Gray | Yes | Push Button | START-STOP | Black - Red | (H) | CR2943NB332T | \$84.00 |
| Gray | Yes | Push Button | (As Specified) | Black - Red | (H) | CR2943AB332E ¹ | \$84.00 |
| Gray | Yes | Push Button | ON-OFF | Black - Black | (H) | CR2943NB332R | \$84.00 |
| Stainless-Steel | No | Push Button | START-STOP | Black - Red | (H) | CR2943NB302N | \$69.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black - Red | (H) | CR2943AB302K ¹ | \$69.00 |
| Stainless-Steel | No | Push Button | ON-OFF | Black - Black | (H) | CR2943NB302P | \$69.00 |
| Stainless-Steel | Yes | Push Button | START-STOP | Black - Red | (H) | CR2943NB332S | \$90.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black - Red | (H) | CR2943AB332K ¹ | \$90.00 |
| Stainless-Steel | Yes | Push Button | ON-OFF | Black - Black | (H) | CR2943NB332V | \$90.00 |

¹Add \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²See page 9-48 for Wiring Symbols.



Pilot and Signaling Devices

Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943

Push Button Stations
 Flush-Mounted
 NEMA Type 1
 600 Volts max. AC/DC
 10 Amperes Continuous

Three-Unit Stations (momentary contact)

| Flush Plate Form | With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Voltage | Product Number | List Price GO-10P4 |
|------------------|---------------|-----------------|----------------------|---------------------|--------------------------------------|----------|---------------------------|-----------------------|
| Gray | No | Push Button | UP-DOWN-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303D | \$81.00 |
| Gray | No | Push Button | RAISE-LOWER-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303F | \$81.00 |
| Gray | No | Push Button | FAST-SLOW-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303E | \$81.00 |
| Gray | No | Push Button | FORWARD-REVERSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303B | \$81.00 |
| Gray | No | Push Button | OPEN-CLOSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303C | \$81.00 |
| Gray | No | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | | CR2943AB303B ¹ | \$81.00 |
| Gray | No | Pilot Light (F) | START-STOP | Black - Red | (A), (B) | 115/230V | CR2943NB303A | \$132.00 |
| Gray | No | Pilot Light (F) | (As Specified) | Black - Red | (A), (B) | 115/230V | CR2943AB303A ¹ | \$132.00 |
| Gray | Yes | Push Button | UP-DOWN-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333D | \$102.00 |
| Gray | Yes | Push Button | RAISE-LOWER-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333F | \$102.00 |
| Gray | Yes | Push Button | FAST-SLOW-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333E | \$102.00 |
| Gray | Yes | Push Button | FORWARD-REVERSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333B | \$102.00 |
| Gray | Yes | Push Button | OPEN-CLOSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333C | \$102.00 |
| Gray | Yes | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | | CR2943AB333B ¹ | \$102.00 |
| Gray | Yes | Pilot Light (F) | START-STOP | Black - Red | (A), (B) | 115/230V | CR2943NB333A | \$153.00 |
| Gray | Yes | Pilot Light (F) | (As Specified) | Black - Red | (A), (B) | 115/230V | CR2943AB333A ¹ | \$153.00 |
| Stainless-Steel | No | Push Button | UP-DOWN-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303K | \$90.00 |
| Stainless-Steel | No | Push Button | RAISE-LOWER-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303M | \$90.00 |
| Stainless-Steel | No | Push Button | FAST-SLOW-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303L | \$90.00 |
| Stainless-Steel | No | Push Button | FORWARD-REVERSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303H | \$90.00 |
| Stainless-Steel | No | Push Button | OPEN-CLOSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB303J | \$90.00 |
| Stainless-Steel | No | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | | CR2943AB303C ¹ | \$90.00 |
| Stainless-Steel | No | Pilot Light (F) | START-STOP | Black - Red | (A), (B) | 115/230V | CR2943NB303G | \$141.00 |
| Stainless-Steel | No | Pilot Light (F) | (As Specified) | Black - Red | (A), (B) | 115/230V | CR2943AB303D ¹ | \$141.00 |
| Stainless-Steel | Yes | Push Button | UP-DOWN-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333K | \$111.00 |
| Stainless-Steel | Yes | Push Button | RAISE-LOWER-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333M | \$111.00 |
| Stainless-Steel | Yes | Push Button | FAST-SLOW-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333L | \$111.00 |
| Stainless-Steel | Yes | Push Button | FORWARD-REVERSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333H | \$111.00 |
| Stainless-Steel | Yes | Push Button | OPEN-CLOSE-STOP | Black - Black - Red | (E), (E), (B) | | CR2943NB333J | \$111.00 |
| Stainless-Steel | Yes | Push Button | (As Specified) | Black - Black - Red | (E), (E), (B) | | CR2943AB333C ¹ | \$111.00 |
| Stainless-Steel | Yes | Pilot Light (F) | START-STOP | Black - Red | (A), (B) | 115/230V | CR2943NB333G | \$162.00 |
| Stainless-Steel | Yes | Pilot Light (F) | (As Specified) | Black - Red | (A), (B) | 115/230V | CR2943AB333D ¹ | \$162.00 |

¹Add \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

²See page 9-48 for Wiring Symbols. If three references are shown, first reference is for first button color (left), second for center button color, and third for right button color.

Three-Unit Stations (maintained contact)

| Flush Plate Form | With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Voltage | Product Number | List Price GO-10P4 |
|------------------|---------------|-----------------|-------------------|-------------|--------------------------------------|----------|----------------|-----------------------|
| Gray | No | Pilot Light (F) | START-STOP | Black - Red | (H) | 115/230V | CR2943NB303P | \$150.00 |
| Gray | Yes | Pilot Light (F) | START-STOP | Black - Red | (H) | 115/230V | CR2943NB333V | \$171.00 |
| Stainless-Steel | No | Pilot Light (F) | START-STOP | Black - Red | (H) | 115/230V | CR2943NB303N | \$159.00 |
| Stainless-Steel | Yes | Pilot Light (F) | START-STOP | Black - Red | (H) | 115/230V | CR2943NB333R | \$180.00 |

²See page 9-48 for Wiring Symbols.

Stations with Miniature Units

| With Wall Box | Function | Nameplate Marking | Color | Wiring Symbol Reference ² | Position Type | Contact Arrangement | Voltage | Product Number | List Price GO-10P4 |
|---------------|------------------------------------|-------------------|-------------|--------------------------------------|---------------|---------------------|----------|----------------|-----------------------|
| Yes | Pilot Light (F) | START-STOP | Black - Red | (D) | - | - | 115/230V | CR2943NB203A | \$114.00 |
| Yes | Toggle Switch | ON-OFF | - | (G) | 2-Position | SPST | - | CR2943NB201A | \$48.00 |
| Yes | Toggle Switch with Pilot Light (F) | ON-OFF | - | (G) | 2-Position | SPST | 115/230V | CR2943NB202B | \$114.00 |

²See page 9-48 for Wiring Symbols.



Pilot and Signaling Devices

Section 9

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

CR2943, CR2941

Push Button Stations

Dimensions in. (mm) and Weights (For Estimating Only)

600 Volts max. AC/DC

10 Amperes Continuous

Surface-Mounted NEMA Type 1

| Push Button Station Device Model | Approx. Height (in/mm) | Approx. Width (in/mm) | Approx. Depth (in/mm) | Conduit Size Each End (in.) | Approximate Shipping Weight (lbs) |
|----------------------------------|------------------------|-----------------------|-----------------------|-----------------------------|-----------------------------------|
| One-Unit Stations | 4.56 (115.8) | 2.66 (67.6) | 2.88 (73.2) | 1/2-3/4 KO's | 1 |
| Two-Unit Stations | 4.56 (115.8) | 2.66 (67.6) | 2.88 (73.2) | 1/2-3/4 KO's | 1 |
| Three-Unit Stations | 7.38 (187.4) | 2.66 (67.6) | 2.63 (66.8) | 3/4-1 KO's | 2 1/2 |



CR2943 Water and Dust-Tight Station, NEMA Type 4

Flush-Mounted NEMA Type 1

| Push Button Station Device Model | Approx. Height (in/mm) | Approx. Width (in/mm) | Approx. Depth (in/mm) | Conduit Size Each End (in.) | Approximate Shipping Weight (lbs) |
|----------------------------------|------------------------|-----------------------|-----------------------|-----------------------------|-----------------------------------|
| One-Unit Stations | 5.62 (142.7) | 3.13 (79.5) | 3.25 (82.6) | 1/2-3/4 KO's | 1 1/2 |
| Two-Unit Stations | 5.62 (142.7) | 3.13 (79.5) | 3.25 (82.6) | 1/2-3/4 KO's | 1 1/2 |
| Three-Unit Stations | 8.62 (218.9) | 3.38 (85.8) | 3.25 (82.6) | 3/4-1 KO's | 3 |



CR2943 Corrosion-Resistant Station, NEMA Type 4X

NEMA Type 4

| Push Button Station Device Model | Approx. Height (in/mm) | Approx. Width (in/mm) | Approx. Depth (in/mm) | Conduit Size (in.) | Approximate Shipping Weight (lbs) |
|----------------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------------------|
| One-Unit Stations | 5.75 (146.0) | 2.69 (68.3) | 3.28 (83.3) | Pipe Tap Bottom; 1/2 | 2 |
| Two-Unit Stations | 5.75 (146.0) | 2.69 (68.3) | 3.28 (83.3) | Pipe Tap Bottom; 1/2 | 2 |

NEMA Type 4X

| Push Button Station Device Model | Approx. Height (in/mm) | Approx. Width (in/mm) | Approx. Depth (in/mm) | Conduit Size (in.) | Approximate Shipping Weight (lbs) |
|----------------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------------------|
| One-Unit Stations | 6.13 (155.7) | 3.25 (82.6) | 3.00 (76.2) | Pipe Tap Bottom; 3/4 | 2 |
| Two-Unit Stations | 6.13 (155.7) | 3.25 (82.6) | 3.00 (76.2) | Pipe Tap Bottom; 3/4 | 2 |

NEMA Type 7 NEMA Type 9

| Push Button Station Device Model | Approx. Height (in/mm) | Approx. Width (in/mm) | Approx. Depth (in/mm) | Conduit Size Each End (in.) | Approximate Shipping Weight (lbs) |
|----------------------------------|------------------------|-----------------------|-----------------------|------------------------------|-----------------------------------|
| One-Unit Stations | 6.62 (168.1) | 4.75 (120.6) | 4.75 (120.6) | Pipe Tap Top and Bottom; 3/4 | 6 |
| Two-Unit Stations | 6.62 (168.1) | 4.75 (120.6) | 4.75 (120.6) | Pipe Tap Top and Bottom; 3/4 | 6 |



CR2941 Hazardous-Location Station, NEMA Type 7



CR2943 Flush-Mounted Forms Less Wall Box



Product Number Selection Instructions: See pages 9-48

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

PA Palm Switches

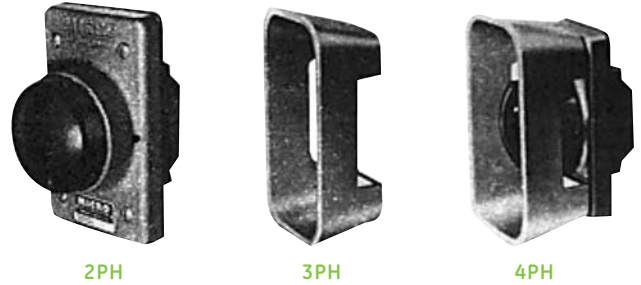
Palm Switches should be ordered from:

GE Parts SuperCenter 1 (800) PART-4GE
 1400 Horizon Way 1 (800) 727-8443
 Mt. Laurel, NJ 08054 Fax: 1 (800) FAX-TO-GE
 1 (800) 329-8643

Rugged, industrial manual switches for machine control.
 Features include:

- Large 2.25" (57.2 mm) diameter button;
- Momentary contact
- Mounts on standard "FD" and "FS" enclosure*
- 60 ampere inrush
- Four button colors
- Oiltight sealed
- Two-circuit double-break circuitry

*Not available from MICRO SWITCH.



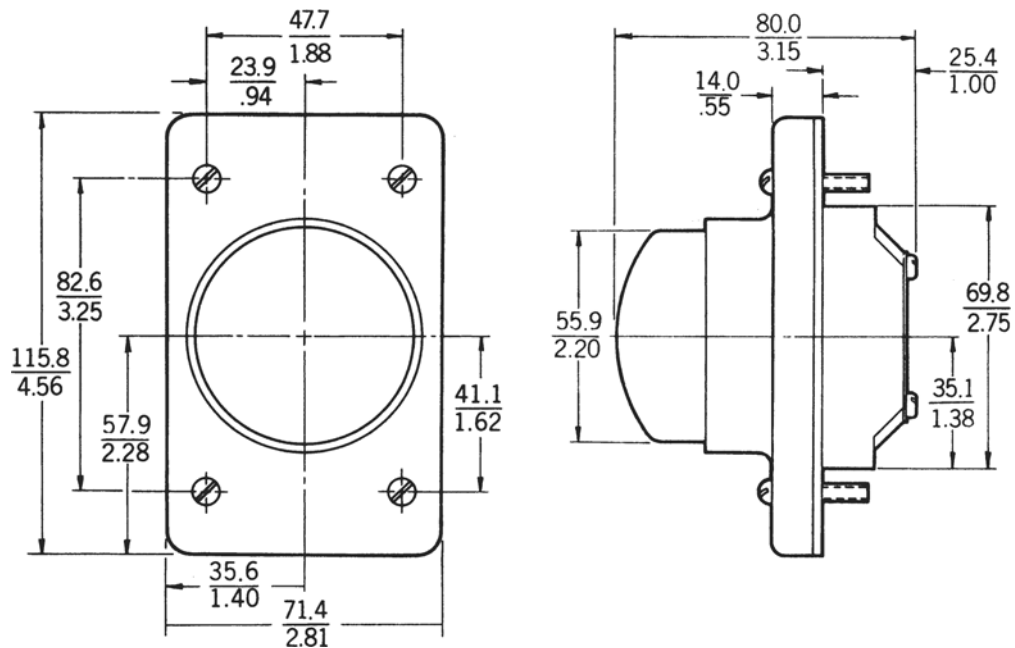
Order Guide

| Circuitry | Electrical Data |
|---|--|
| One- or Two-Circuit Double-Break 1 NC-1 NO | Pilot Duty Rating: 6 amps normal and 60 amps inrush, 125 Vac; 3 amps normal and 30 amps inrush, 250 Vac; 1.5 amps normal and 15 amps inrush, 480 Vac; 1.2 amps normal and 12 amps inrush, 600 Vac. |

NC and NO contacts should be connected to the same polarity.

| Description | Product Listing |
|---|-----------------|
| Black Button | 2PH1 |
| Red Button | 2PH2 |
| Green Button | 2PH3 |
| Yellow Button | 2PH4 |
| Guard | 3PH1 |
| Black Button and Guard | 4PH1 |
| Green Button and Guard | 4PH3 |
| Black Button, One Circuit, 1 NO, Double Break | 8PH1 |
| Red Button, One Circuit, 1 NC, Double Break | 8PH2 |

Dimensions ($\frac{mm}{in.}$) (For Estimating Only)



Dimensions shown are for reference only.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Technical Data
600 Volts Max. AC/DC
10 Amperes Continuous

General Specifications

| | | |
|--|--|--------------------------|
| Standards and Approvals | UL Listed—File Number E2403 C-UL-CSA Cert. LR—15492 NEMA—ICS2—1988, IEC 947.5.1, VDE 0660 | |
| Enclosure Ratings | All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA 4X applications, protective caps will provide improved corrosion resistance. | |
| Finger Protection at Terminals | IP2X according to IEC 529 Terminal identification per CENELEC EN 50013 | |
| Operating temperature range | -25° to +70°C, -13° to +158°F | |
| Storage Temperature Range | -40° to +70°C, -40° to +158°F | |
| Climate Specs | Temperature | Relative Humidity |
| Climate Type | | |
| Temperate | 74°F (23°C) | 50% |
| Wet | 74°F (23°C) | 83% |
| Hot Wet | 104°F (40°C) | 92% |
| Variable Wet | 74° to 104°F (23° to 40°C) | 83%-92% |
| Resistance to Shock | 50g, 11ms | |
| Frequency Range | 1-100 Hz | |
| Vibration Amplitude | 1-13.2 Hz—displacement ±1mm, 13.2-100 Hz—acceleration ±0.7g | |
| Operating Force Without Contact Blocks - Recessed | 1.625 lb./f. | |
| Operating Force Without Contact Blocks Flush | 2.5 lb./f. | |
| Operating Force With 1 NO Contact Block - Recessed | 2.5 lb./f. | |
| Operating Force With 1 NO Contact Block - Flush | 2.875 lb./f. | |
| Operating Force With 2 NO Contact Blocks - Recessed | 3.5 lb./f. | |
| Operating Force With 2 NO Contact Blocks Flush | 3.5 lb./f. | |
| Operating Force With 3 NO Contact Blocks - Recessed | 4.0 lb./f. | |
| Operating Force With 3 NO Contact Blocks Flush | 4.375 lb./f. | |
| Wire Size | 22-12 AWG stranded or solid copper wire | |
| Torque Requirements | Terminal screws: 10-14 in./lb. Contact block mounting screws: 10-14 in./lb. | |

Contacts

| | |
|---|---|
| Electrical Reliability Data | With indicating light loads, tested for 5,000,000 operations at 40mA and 115 V resistive loads with no failures observed. |
| Thermal Current | 10A per IEC 947 5-1 |
| Insulation Voltage | Ui = 660 Vac/dc |
| Protection from Electrical Shock | Class 1 per IEC 536 for metal operators; Class II (double insulation) per IEC 536 for plastic operators |
| Insulation Category | Group C per VDE 0110 |
| Dielectric strength | 2500 V |
| Short-circuit protection | 10A time-delay fuse gG per IEC 269.1 & 269.3 |
| Finger Safe Terminals | Available for silver and gold single- and double-circuit contact blocks, as components and as assembled versions. |
| Contact Characteristics | NC: slow make, double break (positive opening) NO: slow make, double break Opposite polarity Self-cleaning below 300 volts NO and NC snap action (for use on joysticks) |

Pilot Duty Ratings for Standard Contact Blocks

| A600 | | | | | | | |
|---|----|----|-----|-----|-----|------|---------|
| (maximum make volt-amperes = 7200; maximum break volt-amperes = 720; PF = .25) | | | | | | | |
| Volts (V) | 12 | 24 | 48 | 60 | 120 | 240 | 480 600 |
| Continuous (A) | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Making (A) | 60 | 60 | 60 | 60 | 60 | 30 | 15 12 |
| Breaking (A) | 10 | 10 | 10 | 10 | 6 | 3 | 1.5 1.2 |
| P300 | | | | | | | |
| (maximum make or break volt-amperes = 69) | | | | | | | |
| Volts (V) | 12 | 24 | 48 | 60 | 125 | 250 | 300 |
| Continuous (A) | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Making (A) | 5 | 5 | 2.8 | 2.3 | 1.1 | 0.55 | 0.46 |
| Breaking (A) | 5 | 5 | 2.8 | 2.3 | 1.1 | 0.55 | 0.46 |

Reed Switch Block Ratings

| | |
|--------------------------------------|----------------|
| AC Operating Voltage | 2-120 Vac |
| AC Maximum Continuous Current | .001-.15A |
| AC Resistive Watts | 8 VA maximum |
| DC Operating Voltage | 2-30 Vdc |
| DC Maximum Continuous Current | .001-.15A |
| DC Resistive Watts | 4.5 VA maximum |

Power Supply Resistor Values

| | |
|------------------------------------|---|
| Resistor Value @ 120 Vac/dc | 750 ohms ±5%, 5 watts, 2 resistors in series |
| Resistor Value @ 240 Vac/dc | 2700 ohms ±5%, 5 watts, 2 resistors in series |



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Technical Data
600 Volts Max. AC/DC
10 Amperes Continuous

Materials List

| Component | Material |
|------------------------------|---|
| Cap (non-illuminated) | Unfilled polyacetal |
| Cap (illuminated) | Polycarbonate |
| Metal housings | Chromium- or zinc-plated zinc ingot |
| Plastic housing | Nylon |
| White plunger | Unfilled polyacetal |
| Flange | Nylon |
| Grease | Good for temperatures of -42° to +204°C |
| Plate spacer | Polycarbonate |
| Locking plate | Chromium-plated zinc ingot |
| Locking ring | Chromium-plated zinc ingot |
| Hexagonal ring | Chromium-plated zinc ingot |
| Contact block housing | Nylon |
| Cam | Unfilled Polyacetal |
| Cam follower | Unfilled Polyacetal |
| Joystick protective housings | Vinyl nitrile |
| Terminal screw size | #6-32 |
| Gasket | Vinyl nitrile |
| Contacts | Silver alloy |
| Push button guards | Chromium-plated zinc ingot |
| Wobble stick | Aluminum |
| Key | Brass |
| Protective caps | Silicon rubber |
| Locking attachment | Polycarbonate |

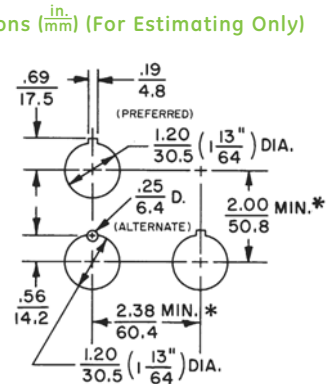
Mechanical Life Ratings

| Operator | Number of Operations |
|--|----------------------|
| Standard push buttons | 3,000,000 |
| Illuminated push buttons (including push on/push off) | 1,000,000 |
| Momentary mushroom-head push buttons | 3,000,000 |
| Maintained and push-to-latch, turn-to-release mushroom-head push buttons | 500,000 |
| Selector switches (all) | 1,000,000 |
| Joysticks | 500,000 |
| Toggle switches | 500,000 |
| Wobble switches | 1,000,000 |
| Key-operated push buttons | 500,000 |
| Selector push buttons | 1,000,000 |
| Time-delay push buttons | 1,000,000 |

Electrical Life Ratings

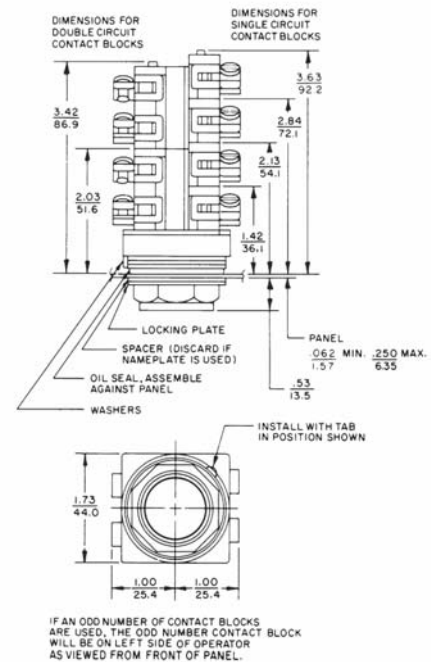
| Operator | Number of Operations |
|-------------------|----------------------|
| Push buttons | 5,000,000 |
| Selector switches | 500,000 |

Outlines, Dimensions (mm) (For Estimating Only)



Drilling Plan Dual Dimensions

CR104P push buttons are designed for front mounting, with or without nameplates, in 1 13/64" (30.5 mm) diameter holes. Operators are provided with an octagonal ring, spacers, and gaskets to ensure an oiltight, uniform front protrusion. Acceptable Panel Thickness: 0.04 - 0.25 inches (1.02 - 6.35 mm)



Outline and Dimensions

For dimensional information on other operators, contact nearest GE Energy Representative. Manufacturing tolerances apply to all untoleranced dimensions.

| Panel thickness (inches) | No. of washers required |
|--------------------------|-------------------------|
| .062 | 3 |
| .093 | 2 |
| .125 | 2 |
| .188 | 1 |
| .25 | 0 |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

C-2000 Push Buttons Reveal the Beauty of Simplicity in Every Detail

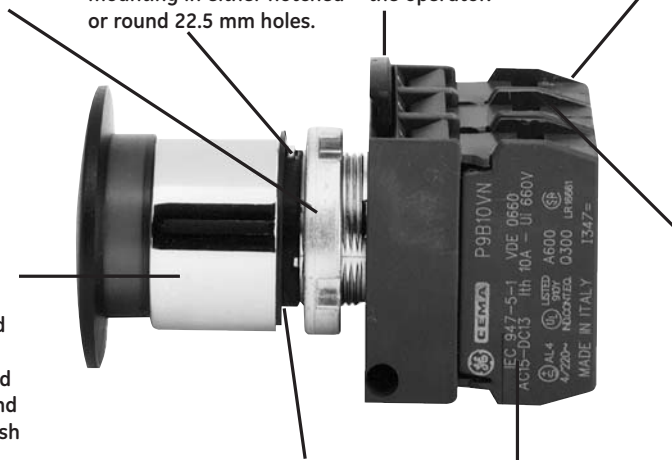
Back-tightened locking rings discourage tampering, accommodate a range of panel thickness, and tighten down with either a custom wrench or any flat-bladed screwdriver.

A removable orientation tab allows universal mounting in either notched or round 22.5 mm holes.

With 4-point contact, flanges snap securely onto the operator.

Ultrasonically welded contact block housings hold up longer and resist contamination better, even in the dustiest environments. Double bridge sliding contacts provide excellent performance, even in low-voltage applications. Terminals (both screw and quick-connect) can be wired off the operator, then snapped on. Contacts are rated A600, Q300.

Four operator styles—round polished and satin chrome, round and square engineered plastic—all reflect a sleek, distinctive European style and give you precisely the look and function you want in your push buttons. Ergonomic design adds ease of assembly and operation.



Like contact blocks, power supplies just snap onto the mounting flange. Installation is quicker, labor costs are reduced. Choose from full-voltage, resistor and transformer power supplies with incandescent, LED or neon lamps.

The permanently bonded front gasket provides superior sealing against contaminants and makes installation nearly foolproof.

Markings are easy to read and, because they're laser-etched, they'll remain legible—permanently.

C-2000 push buttons bring the beauty of simplicity to heavy-duty 22 mm push buttons. You'll see it in their outstanding appearance, thoughtful ergonomics, expansive selection, innovative contact blocks, modular versatility, long-term reliability, and global applicability.

Quick Reference Guide to C-2000 Push Buttons

| | |
|--|----------------|
| Introduction, Quick Reference Guide | 9-58, 9-59 |
| How to Select, Price and Order | 9-60, 9-61 |
| Nomenclature Keys | 9-62 to 9-64 |
| Standard Push Buttons | 9-65 |
| Illuminated Push Buttons | 9-67 |
| Mushroom-Head Push Buttons, Emergency Push Button | 9-69 |
| Illuminated Mushroom-Head Push Buttons | 9-71 |
| Special Function, Non-Illuminated Push Buttons | 9-72 |
| Special Function, Illuminated Push Buttons | 9-74 |
| Key-Operated & Selector Push Buttons | 9-76 to 9-77 |
| Multi-Function Push Buttons | 9-78 |
| Selector Switches | 9-79 |
| Pilot Lights | 9-93 |
| Push-to-Test Pilot Lights | 9-94 |
| Special Operators | 9-96 |
| Power Supplies & Contact Blocks | 9-100 |
| Nameplates | 9-103 |
| Specially Marked Push Button Caps; Diffusers & Inserts | 9-107 |
| Caps, Heads, Lenses & Handles | 9-111 |
| Plastic Enclosures, Nameplates, Contact Blocks & Power Supplies for Base-Mounted Pilot Devices | 9-113 |
| Die-Cast Aluminum Enclosures | 9-115 |
| Sheet Steel & Stainless Steel Enclosures | 9-116 |
| Accessories | 9-118 |
| Lamps | 9-119 |
| Assembled Forms | 9-121 |
| Technical Data | 9-127 to 9-133 |



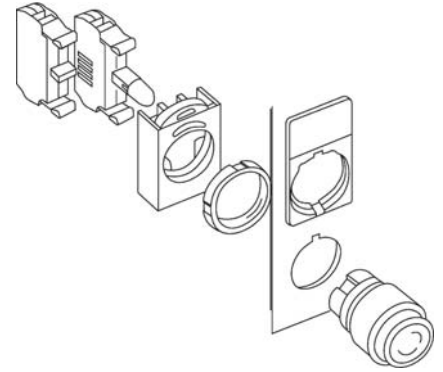
Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

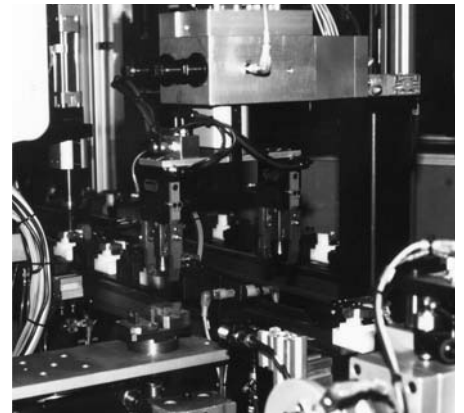
True Modularity, Real Simplicity

Because all operators, flanges, contact blocks, and power supplies simply snap together, installation is fast, inventory requirements are slashed, and application flexibility is greatly increased. You can wire terminals off the operator, then snap the block on when you're done. Disassembly is just as easy.



Designed and Built for Reliability

Quality is built into every component using advanced design and manufacturing technologies. 100% on-line inspection assures you of the reliability you need.



Innovative Contact Blocks

Unique, patented double bridge wiping contacts in ultrasonically welded housings provide long life and superior contact fidelity, even in low voltage applications.



Worldwide Approval and Availability

C-2000 push buttons are truly global. Around the world their product numbers follow the same logical nomenclature that simplifies identification and specification. Around the world, they're readily available. Around the world, they meet the standards.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

Section 9

How To Select, Price And Order C-2000 Push Buttons

This catalog contains virtually all of the information you'll need to understand, evaluate, select, price, and apply C-2000 push buttons.

Technical data, on pages 9-127 to 9-133, provides complete specifications, terminal and contact data, mechanical and electrical life ratings, materials, power supply information, maximum contacts by operator, and lamp selection tips. Guideform specifications appear on page 9-133.

A guide to C-2000 push button nomenclature (pages 9-62 to 9-64) offers insight into this logical product numbering system. This will be helpful in understanding how the nomenclature works, and useful in deciphering particular product numbers, but should not be used to develop a specific product number, as not all possible combinations of product number digits produce available devices. To find a product number for a specific product, use the data beginning on page 9-65.

To select modular components, see pages 9-65 to 9-120. You'll find ordering modular components—as well as assembling and stocking them—fast and easy. **To select assembled devices**, see pages 9-121 to 9-126. Assembled devices provide a single product number for complete devices (which is a handy reference in certain circumstances, even if you order modular components). To develop a product number and list price for assembled components, just follow the step-by-step process explained in that section. Note that there is a **\$5.00 (List Price, GO-10GC)** assembly surcharge for assembled devices.

Many assembled devices are available from GE Energy stock. In the case that a required device is not available, **the components to assemble it will generally be stocked**. A third alternative may be to choose a similar assembled device and the required parts to modify it.

To order, contact your GE Energy distributor or the nearest GE Energy Representative.



Outstanding appearance and ergonomics. The beauty of C-2000 push buttons adds class to any panel. But their distinctive European styling also incorporates ergonomic design features that provide a sure, easy touch for the people who use them.



Huge selection. With four operator styles, a vast array of operator types, a complete selection of contact blocks and power supplies, your choice of nameplates and enclosures, lamps for every need, and a multitude of useful accessories, you'll find in C-2000 push buttons exactly what you're looking for.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

Selecting Guide

Product Prefix and Description

The selection process is mapped out on the first page of each Operator Type, directing you in the steps necessary to specify a single device. Color coding speeds and simplifies the location of data for each step.

Select Operators based on Style and Type. Make any Product Number digits substitutions required (e.g. for colors or keys) using accompanying options tables. List Prices appear to the right of the Product Number.

Pilot and Signaling Devices
Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons
C-2000™
 Standard
 Non-Illuminated
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Section 9

Selection Process

Select operator Select contact block(s) Select nameplate, if required Complete Unit

Operators

| Standard Push Button Type | Operator Style | Product Number | List Price |
|---------------------------|---------------------------|----------------|------------|
| Flush | Round Polished Chrome | 95C0N1G | \$4.50 |
| Flush | Round Satin Chrome | 95C0N1S | \$4.50 |
| Flush | Round Engineered Plastic | 95C0N1E | \$4.50 |
| Flush | Square Engineered Plastic | 95C0N1Q | \$4.50 |
| Extended | Round Polished Chrome | 95C0N2G | \$4.50 |
| Extended | Round Satin Chrome | 95C0N2S | \$4.50 |
| Extended | Round Engineered Plastic | 95C0N2E | \$4.50 |
| Extended | Square Engineered Plastic | 95C0N2Q | \$4.50 |
| Recessed | Round Polished Chrome | 95C0N3G | \$4.50 |
| Recessed | Round Satin Chrome | 95C0N3S | \$4.50 |

Replace asterisk (*) in product number with color code from table below

*Colors

| Color | Black | Red | Green | Yellow | Blue | White | Brown | Grey | No Code |
|------------|-------|-----|-------|--------|------|-------|-------|------|---------|
| Color code | N | R | V | U | L | B | H | G | |

When ordering operator with no cap, deduct \$1.00 from List Price.
 Color caps are listed on page 9-111.

Recessed
 Flush
 Extended
 Square Engineered Plastic

www.ge.com See Section 17 for a list of product-related publications.
 ge.com Control Catalog 9-65

Where available, example product photographs appear to the right of the Operator Selection Tables.

Publication and page References make location of associated information easy.

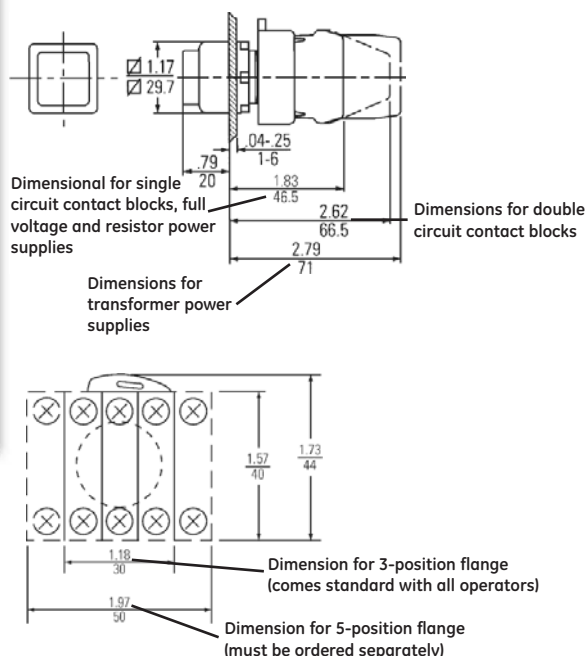
Pilot and Signaling Devices
Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons
C-2000™
 Standard
 Non-Illuminated
 Outlines and Dimensions (mm) (For Estimating Only)
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Section 9

Round Flush Push Button
 Square Flush Push Button
 Round Extended Push Button
 Square Extended Push Button
 Round Recessed Push Button
 Typical Back Side View

Product Number Selection Instructions: See pages 9-65
 9-65 Control Catalog www.geelectrical.com Rev. 05/06 Prices and data subject to change without notice

Selected Dimensional Drawings follow each Operator Type Selection Table page. These typically include dimensional information and backside terminal configurations.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

Nomenclature

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

For use in interpreting product numbers only. Do not use for developing product numbers.

Standard & Illuminated Push Buttons

| | | Style | | Illumination | | Cap Color | | Push Button Type | | Lens Type | |
|---|---|--|---|---|--|---|--|--|--|---|--|
| P | 9 | | P | | | | | | | | |
| | | C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | | N = Nonilluminated L = Illuminated | | 0 = No Cap N = Black R = Red V = Green G = Yellow L = Blue B = White M = Brown H = Gray A = Orange I = Clear | | G = Flush S = Extended E = Recessed | | D = Diffused R = Refracted 0 = No lens | |

Pilot Lights

| | | Style | | Cap Color | | Lens Type | |
|---|---|--|---|--|--|---|--|
| P | 9 | | L | | | | |
| | | C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | | R = Red V = Green G = Yellow L = Blue B = White I = Clear A = Orange 0 = No cap | | D = Diffused R = Refracted V = Glass 0 = No lens | |

Mushroom-Head Push Buttons

| | | Style | | Type | | Mushroom-Head Diameter | | Cap Color | | Illumination | | Position Type (1 Digit) or Key Selection (2 Digits) | |
|---|---|--|---|---|--|---|--|---|--|---|--|---|--|
| P | 9 | | E | | | | | | | | | | |
| | | C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | | M = Momentary T = Push/Pull R = Turn-to-reset C = Key-to-reset | | 3 = 28mm 4 = 40mm 6 = 60mm | | N = Black R = Red V = Green G = Yellow L = Blue B = White I = Clear A = Orange | | N = Nonilluminated A = Positive-action, nonilluminated L = Illuminated | | Position type 1 = 2-position push/pull 2 = 3-position, maintained push/momentary pull 3 = 3-position, push/pull, spring return to center Keys See keys selection table on page 9-64 | |

Knob- & Lever-Operated Selector Switches

| | | Style | | Operator Type | | Cam | | Spring Return | | Cap Color | |
|---|---|--|---|--|--|--|--|---|--|--|--|
| P | 9 | | S | | | | | | | | |
| | | C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | | M = Knob V = Lever L = Illuminated knob | | D, I, or H = 2-position E, L, U, or Z = 3-position X or W = 4-position Y = 5-position | | 0 = Fixed 1 = From left 3 = From left & right 5 = From right | | 0 = No knob or lever N = Black R = Red V = Green G = Yellow L = Blue B = White I = Clear A = Orange | |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

Nomenclature

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

For use in interpreting product numbers only. Do not use for developing product numbers.

Key-Operated Selector Switches

| Style | | Cam | Spring Return | Key Removal | Key Selection |
|--|---|--|---|------------------------------------|--------------------------------------|
| P | 9 | | | | |
| | | | | | |
| C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | | D, I, or H = 2-position E, L, U, or Z = 3-position X = 4-position | 0 = Fixed 1 = From left 3 = From left & right 5 = From right | See key removal table on page 8-64 | See key selection table on page 9-64 |

Special Operators

| Style | Operator Type | Operator-Specific Digits For Various Options |
|--|--|--|
| P | 9 | |
| | | |
| C = Polished chrome M = Satin chrome X = Round plastic S = Square plastic | M = Joystick C = Toggle switch W = Wobble stick Z = Potentiometer operator R = Reset push button B = Buzzer | |

Multi-Function Push Buttons

| Illumination | | Top Color | Bottom Color | Guard | ISO Symbols |
|---|--------------------------------------|----------------|---|--|-------------|
| P | 9 | D | P | | |
| | | | | | |
| N = Nonilluminated L = Illuminated | N = Black V = Green | R = Red | G = Flush S = Top flush, bottom extended | 00 = No Symbols 01 = 1 (top) / 0 (bottom) | |

Key-Operated Push Buttons

| Style | Lock position | Key removal | Key selection |
|---|--|---|--------------------------------------|
| P | 9 | P | C |
| | | | |
| C = Polished chrome M = Satin chrome X = Round plastic | 1 = Normal 2 = Depressed 3 = Normal & depressed | E = Right K = Left & right | See key selection table on page 9-64 |

Selector Push Buttons

| Style | Function |
|---|--|
| P | 9 |
| | |
| C = Polished chrome M = Satin chrome | 2-position 21 = Function 201 22 = Function 231 23 = Function 235 3-position 34 = Function 301 35 = Function 323 |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices

C-2000

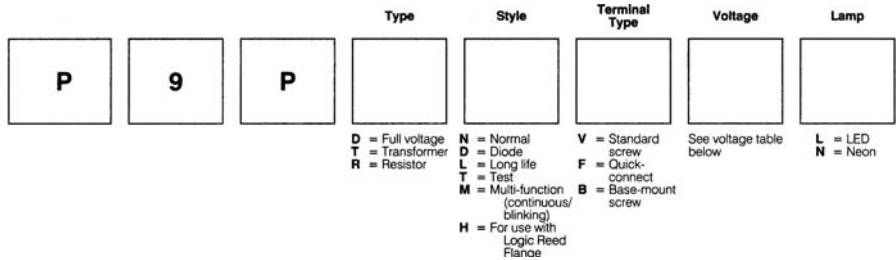
Nomenclature

600 VAC Max., 300 VDC Max.

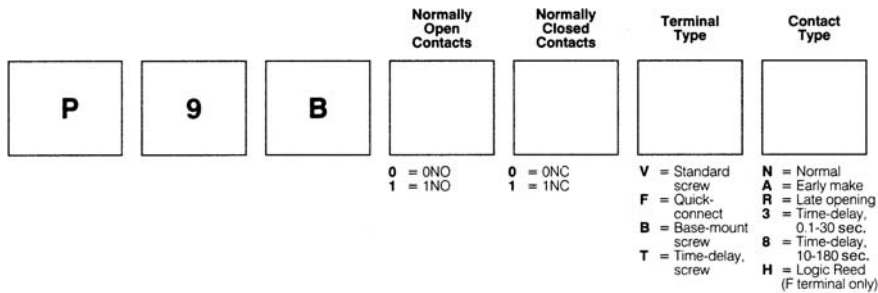
10 Amps Continuous AC, 2.5 Amps Continuous DC

For use in interpreting product numbers only. Do not use for developing product numbers.

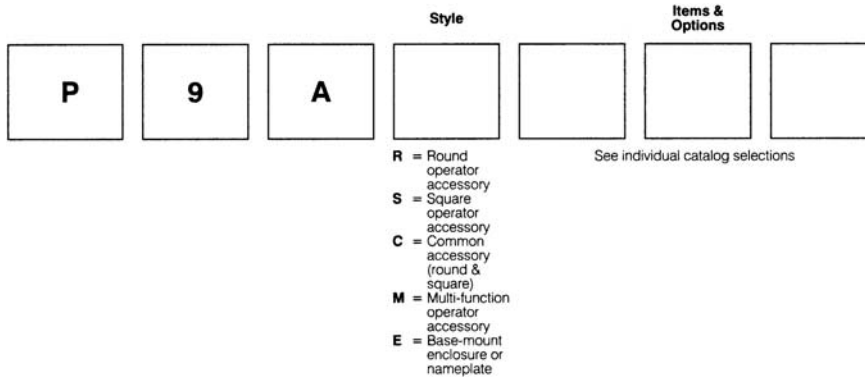
Power Supplies



Contact Blocks



Accessories and Enclosures



Key Selection

| Key Number | Std. | Special | | | | | | | | | | Colored | | | | |
|------------|------|---------|------|------|------|------|------|------|------|------|--------------|----------------|---------------|-------------|--------------|----------------|
| | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) |
| Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 | 33 | 34 | 37 | 38 | 40 |

Key Removal

| 2- & 3-Position | Key Removal Position from Keyed Operators | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|----|------|-----|------|-------|-----|------|-----|------|--------|---------|-------|---------|--------|-----------|
| | L | — | C | — | R | — | L-C | — | L-R | — | — | C-R | — | — | — | L-C-R | — | — | — |
| 4-Position | 2L | L | — | R | 2R | 2L-L | — | 2L-R | 2L-2R | L-R | L-2R | — | 2-2R | 2L-L-R | 2L-L-2R | — | 2L-R-2R | L-R-2R | 2L-L-R-2R |
| Key Removal Code | A | B | C | D | E | F | H | J | K | L | M | N | P | R | S | T | U | V | Z |

Voltage

| Voltage | No lamp | 6 | 12 | 24 | 48 | 60 | 110 | 120 | 110-120 | 130 | 220 | 220-240 | 220-250 | 280 | 380 | 415-440 | 480-500 | 550-600 |
|--------------|---------|---|----|----|----|----|-----|-----|---------|-----|-----|---------|---------|-----|-----|---------|---------|---------|
| Voltage code | 0 | A | B | D | G | H | I | J | J | L | M | N | N | R | U | W | Y | Z |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Standard

Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Operators

| Standard Push Button Type | Operator Style | Product Number | List Price GO-10GC |
|---------------------------|---------------------------|----------------|-----------------------|
| Flush | Round Polished Chrome | P9CPN*G | \$8.50 |
| Flush | Round Satin Chrome | P9MPN*G | \$8.50 |
| Flush | Round Engineered Plastic | P9XPN*G | \$8.50 |
| Flush | Square Engineered Plastic | P9SPN*G | \$8.50 |
| Extended | Round Polished Chrome | P9CPN*S | \$8.50 |
| Extended | Round Satin Chrome | P9MPN*S | \$8.50 |
| Extended | Round Engineered Plastic | P9XPN*S | \$8.50 |
| Extended | Square Engineered Plastic | P9SPN*S | \$8.50 |
| Recessed | Round Polished Chrome | P9CPN*E | \$8.50 |
| Recessed | Round Satin Chrome | P9MPN*E | \$8.50 |

Replace asterisk (*) in product number with color code from table below

*Colors

| Colors | Black | Red | Green | Yellow | Blue | White | Brown | Gray | No Cap ¹ |
|-------------|-------|-----|-------|--------|------|-------|-------|------|---------------------|
| *Color code | N | R | V | G | L | B | M | H | 0 |

¹When ordering operator with no cap, deduct \$1.00 from List Price.

Color caps are listed on page 9-111.



Recessed



Flush



Extended



Square Engineered Plastic



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

Section 9

C-2000

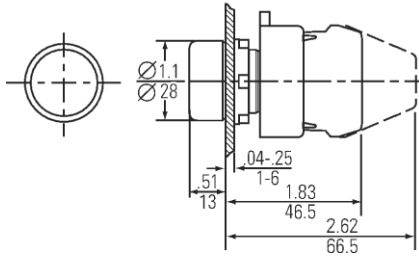
Standard

Non-Illuminated

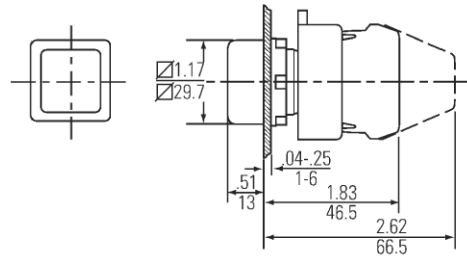
Outlines and Dimensions ($\frac{\text{in}}$ / $\frac{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

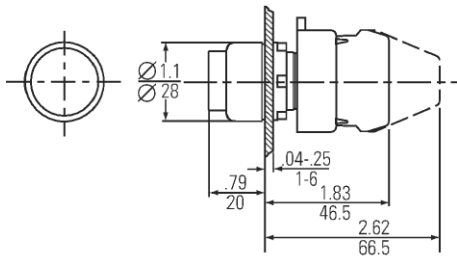
10 Amps Continuous AC, 2.5 Amps Continuous DC



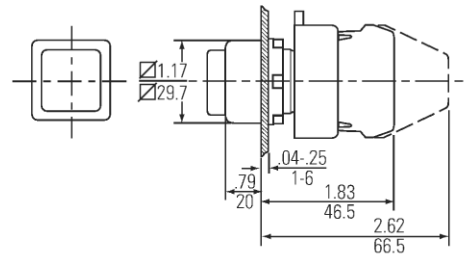
Round Flush Push Button



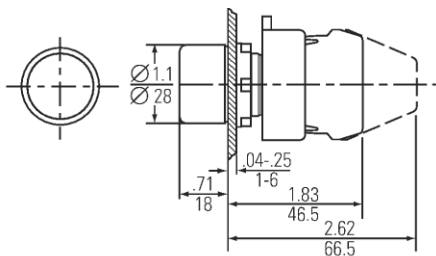
Square Flush Push Button



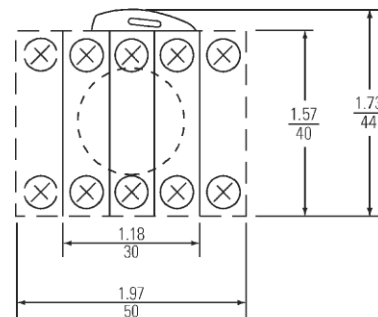
Round Extended Push Button



Square Extended Push Button



Round Recessed Push Button



Typical Back Side View



Product Number Selection Instructions: See pages 9-65

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Standard

Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

| | | | | | | | | |
|-----------------------|---|--|---|--------------------------------------|---|--|---|---------------|
| Select operator below | + | Select power supply from pages 9-100 & 9-101 | + | Select contact block from page 9-101 | + | Select nameplate, if required, from pages 9-103 to 9-105 | = | Complete unit |
|-----------------------|---|--|---|--------------------------------------|---|--|---|---------------|



Flush

Operators

| Standard Push Button Type | Operator Style | Lens Type | Product Number | List Price GO-10GC |
|---------------------------|----------------------------|-----------|----------------|--------------------|
| Flush | Round Polished Chrome | Diffused | P9CPL*GD | \$11.50 |
| Flush | Round Satin Chrome | Diffused | P9MPL*GD | \$11.50 |
| Flush | Round Engineered Plastic | Diffused | P9XPL*GD | \$11.50 |
| Flush | Squared Engineered Plastic | Diffused | P9SPL*GD | \$11.50 |
| Extended | Round Polished Chrome | Diffused | P9CPL*SD | \$10.50 |
| Extended | Round Satin Chrome | Diffused | P9MPL*SD | \$10.50 |
| Extended | Round Engineered Plastic | Diffused | P9XPL*SD | \$10.50 |
| Extended | Squared Engineered Plastic | Diffused | P9SPL*SD | \$10.50 |
| Recessed | Round Polished Chrome | Diffused | P9CPL*ED | \$11.50 |
| Recessed | Round Satin Chrome | Diffused | P9MPL*ED | \$11.50 |
| Recessed | Round Engineered Plastic | Diffused | P9XPL*ED | \$11.50 |
| Recessed | Squared Engineered Plastic | Diffused | P9SPL*ED | \$11.50 |



Recessed

Replace asterisk (*) in product number with color code from table below

*Colors

| Colors | Red | Green | Yellow | Blue | White | Orange | Clear | No Lens ¹ |
|-------------|-----|-------|--------|------|-------|--------|-------|----------------------|
| *Color code | R | V | G | L | B | A | I | 0 |

¹When ordering illuminated push buttons with no lens, change eighth digit in product number from D to O and deduct **\$1.00** from List Price.

Color lenses are listed separately on page 9-112.



Square Extended



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

Section 9

C-2000

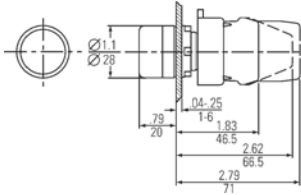
Standard

Illuminated

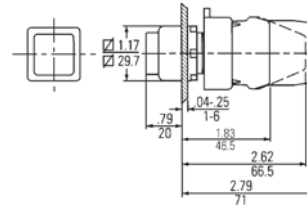
Outlines and Dimensions ($\frac{\text{in}}$ / $\frac{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

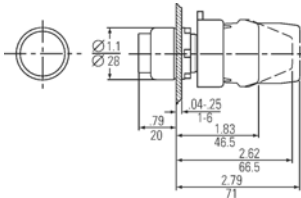
10 Amps Continuous AC, 2.5 Amps Continuous DC



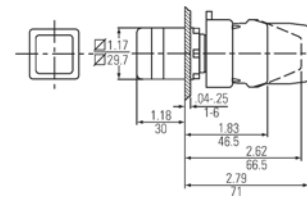
Round Illuminated Flush Push Button



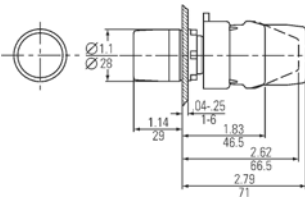
Square Illuminated Extended Push Button



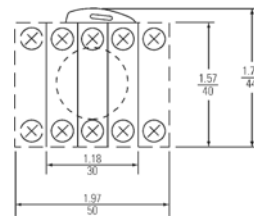
Round Illuminated Extended Push Button



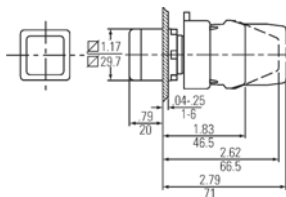
Square Illuminated Recessed Push Button



Round Illuminated Recessed Push Button



Typical Back Side View



Square Illuminated Flush Push Button



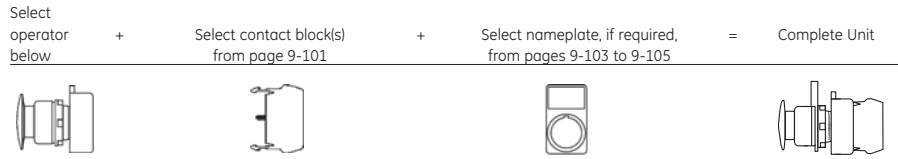
Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Mushroom-Head
Non-Illuminated
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process



Non-Illuminated Mushroom-Head Push Button

Momentary Operators

| Head Size | Operator Style | Product Number | List Price GO-10GC |
|-------------|---------------------------|----------------|--------------------|
| 28 mm dia. | Round Polished Chrome | P9CEM3*N | \$16.50 |
| 40 mm dia. | Round Polished Chrome | P9CEM4*N | \$16.50 |
| 60 mm dia. | Round Polished Chrome | P9CEM6*N | \$18.50 |
| 28 mm dia. | Round Satin Chrome | P9MEM3*N | \$16.50 |
| 40 mm dia. | Round Satin Chrome | P9MEM4*N | \$16.50 |
| 60 mm dia. | Round Satin Chrome | P9MEM6*N | \$18.50 |
| 28 mm dia. | Round Engineered Plastic | P9XEM3*N | \$18.50 |
| 40 mm dia. | Round Engineered Plastic | P9XEM4*N | \$16.50 |
| 60 mm dia. | Round Engineered Plastic | P9XEM6*N | \$18.50 |
| 29.7 mm sq. | Square Engineered Plastic | P9SEM3*N | \$16.50 |

Replace asterisk (*) in product number with color code from table below

*Colors

| Colors | Black | Red | Green | Yellow |
|-------------|-------|-----|-------|--------|
| *Color code | N | R | V | G |

Emergency Push Button

| Description | Product Number | Pack Qty. | List Price GO-10GC |
|---|--------------------------|-----------|--------------------|
| Pushbutton E-Stop Latch T-R EN418 | P9XER4RAN | 5 | \$28.20 |
| Pushbutton E-Stop L-T-R EN418 Flag Ind | P9XER4RAW | 5 | \$33.20 |
| Pushbutton E-Stop Latch Key-R EN418 | P9XER4RA95N ¹ | 5 | \$65.60 |
| E-Stop Ass.Station EN418 Latch T-R | P9EPAG1Y01N | 1 | \$69.41 |
| E-Stop Ass.Station EN418 L-T-R Flag Ind | P9EPAG1Y01W | 1 | \$74.41 |
| E-Stop Ass.Station EN418 Latch Key-R | P9EPAG1Y06N | 1 | \$116.05 |

¹ With 2 keys code 3095



Emergency Push-Button

Technical Data

- Positive opening:** Over center device provides positive action even if the actuator is partially depressed (anti-tease). Contacts open only after latching mechanism operates. Tamperproof mechanism is sealed to prevent interference.
- Compliance with standards:** IEC 947.5.1 – VDE0660 – UTE – BSI – NEMA – CENELEC EN 50007
- Approvals:** UL – CSA
- Degree of protection:** IP66 in accordance with CENELEC EN 60529 suitable for use in enclosures type 1-3-3R-3S-4-4X-12-13 to UL 508
- Rated insulation voltage:** 690V AC/DC according to EN 60947.1
- Impulse withstand voltage:** 4kV according to EN 60947.1
- Electrical rating:** rated thermal current I_{th} = 10 A

Performances according to IEC 947.5.1

Category AC 15

| Voltage | Ue (V) | 24 | 48 | 60 | 110 | 220 | 380 | 500 | 600 |
|---------|--------|----|----|----|-----|-----|-----|-----|-----|
| Current | Ie (A) | 10 | 10 | 10 | 6 | 3 | 2 | 1.5 | 1.2 |

Category DC 13

| Voltage | Ue (V) | 24 | 48 | 60 | 110 | 220 | 300 |
|---------|--------|-----|-----|----|------|------|-----|
| Current | Ie (A) | 2.5 | 1.4 | 1 | 0.55 | 0.27 | 0.2 |

Performances according to CSA and UL

| | |
|------------------|--------|
| AC Heavy Duty | (A600) |
| DC Standard Duty | (Q300) |

Temperature ranges:

| | |
|-----------|-----------------|
| Operation | -25°C to + 70°C |
| Storage | -40°C to + 70°C |

Climatic conditions:

| | |
|---|------------------------|
| The standard versions are suitable for use in the following climates: | |
| Temperate climate | cat. 23/50 (DIN 50014) |
| Wet climate | cat. 23/83 (DIN 50015) |
| Hot wet climate | cat. 40/92 (DIN 50015) |
| Variable wet climate | FW24 (DIN 50016) |

Mechanical life: 0.3 million operations

Max. number of contact blocks:

| | |
|-----------------|---|
| Screw terminal | max. 2 for a total of 4 electrical contacts |
| Faston terminal | max. 2 for a total of 2 electrical contacts |



Outlines and Dimensions: See page 9-70
Accessories: See page 9-110 to 9-119
Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

Section 9

C-2000

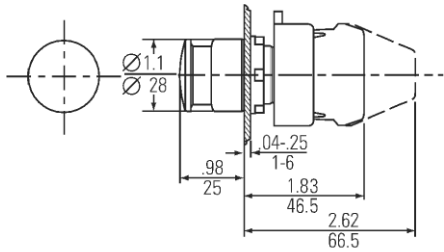
Mushroom-Head

Non-Illuminated

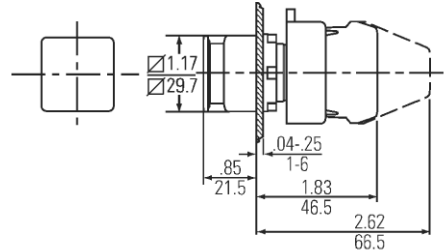
Outlines and Dimensions ($\frac{in}{mm}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

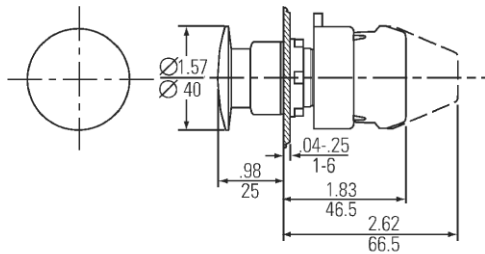
10 Amps Continuous AC, 2.5 Amps Continuous DC



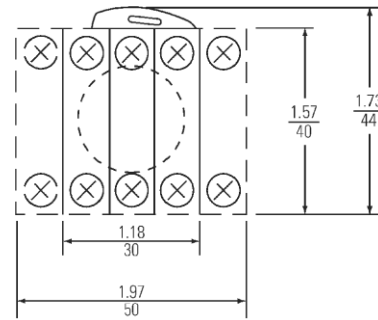
Round Mushroom-Head Push Button (28 mm)



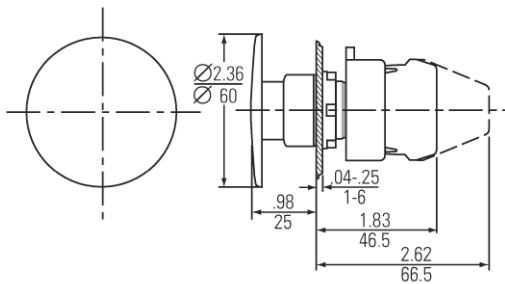
Square Mushroom-Head Push Button



Round Mushroom-Head Push Button (40 mm)



Typical Back Side View



Round Mushroom-Head Push Button (60 mm)



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

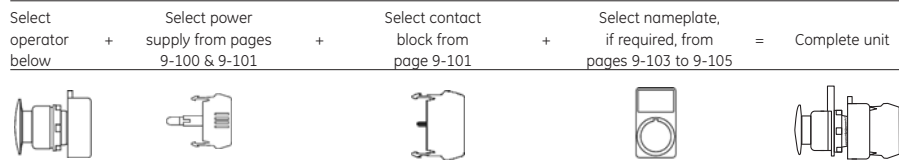
Mushroom-Head

Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process



Illuminated Mushroom-Head Push Buttons

Momentary Operators

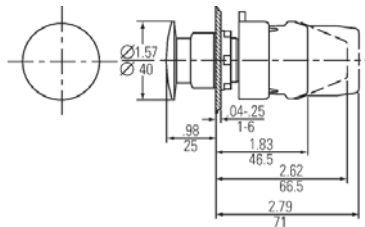
| Head Size | Operator Style | Product Number | List Price GO-10GC |
|-------------|---------------------------|----------------|--------------------|
| 40 mm dia. | Round Polished Chrome | P9CEM4*L | \$16.50 |
| 40 mm dia. | Round Satin Chrome | P9MEM4*L | \$16.50 |
| 40 mm dia. | Round Engineered Plastic | P9XEM4*L | \$16.50 |
| 29.7 mm sq. | Square Engineered Plastic | P9SEM3*L | \$16.50 |

Replace asterisk (*) in product number with color code from table below

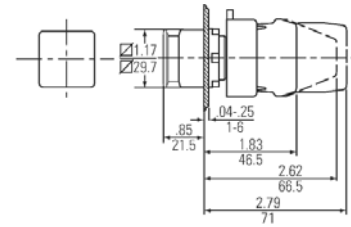
*Colors

| Colors | Red | Green | Yellow | Blue | White | Orange | Clear |
|-------------|-----|-------|--------|------|-------|--------|-------|
| *Color code | R | V | G | L | B | A | I |

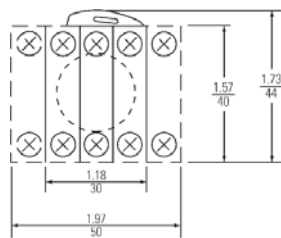
Outlines and Dimensions (in/mm) (For Estimating Only)



Round Illuminated Mushroom-Head Push Button (40 mm)



Square Illuminated Mushroom-Head Push Button



Typical Back Side View



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Special Function

Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Non-Illuminated Special Function Push Buttons

Push-To-Latch (Red)

| Release Type | Head Size | Operator Style | Product Number | List Price GO-10GC |
|-----------------|------------|---------------------------|------------------------|--------------------|
| Turn-to-Release | 28 mm dia. | Round Polished Chrome | P9CER3RN | \$38.50 |
| Turn-to-Release | 40 mm dia. | Round Polished Chrome | P9CER4RN | \$38.50 |
| Turn-to-Release | 28 mm dia. | Round Satin Chrome | P9MER3RN | \$38.50 |
| Turn-to-Release | 40 mm dia. | Round Satin Chrome | P9MER4RN | \$38.50 |
| Turn-to-Release | 40 mm dia. | Round Engineered Plastic | P9XER4RA ¹ | \$38.50 |
| Turn-to-Release | 28 mm dia. | Square Engineered Plastic | P9XER4RN | \$38.50 |
| Turn-to-Release | 40 mm dia. | Square Engineered Plastic | P9SER4RA ¹ | \$38.50 |
| Key-to-Release | 40 mm dia. | Round Polished Chrome | P9CEC4RN† | \$53.50 |
| Key-to-Release | 40 mm dia. | Round Satin Chrome | P9MEC4RN† | \$53.50 |
| Key-to-Release | 40 mm dia. | Round Engineered Plastic | P9XEC4RA† ¹ | \$53.50 |
| Key-to-Release | 40 mm dia. | Square Engineered Plastic | P9SEC4RA† ¹ | \$53.50 |

¹Direct snap action push buttons per EN 418. Fully depressing the button will ensure that the NC contacts have been opened by purely mechanical means. Less than full depression of the button will not change contact state.

Replace dagger (†) in product number with key code from Keys table below.

Keys (Set of 2)†

| Key | Std. | Special ¹ | | | | | | | | | |
|-----------|------|----------------------|------|------|------|------|------|------|------|------|--------------|
| Number | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) |
| †Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 |

| Key | Colored ¹ | | | | |
|-----------|----------------------|---------------|-------------|--------------|----------------|
| Number | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) |
| †Key Code | 33 | 34 | 37 | 38 | 40 |

¹To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC. Minimum quantity order on Key Codes 95, 55, and 33 is one; for all others, minimum quantity order is ten.

Push-Pull

| Position Type | Operator Style | Head Size | Product Number | List Price GO-10GC |
|---|---------------------------|------------|----------------|--------------------|
| 2-Position Maintained | Round Polished Chrome | 40 mm dia. | P9CET4*N1 | \$21.50 |
| 2-Position Maintained | Round Satin Chrome | 40 mm dia. | P9MET4*N1 | \$21.50 |
| 2-Position Maintained | Round Engineered Plastic | 40 mm dia. | P9XET4*N1 | \$21.50 |
| 2-Position Maintained | Square Engineered Plastic | 40 mm dia. | P9SET4*N1 | \$21.50 |
| 3-Position Maintained Push—Momentary Pull | Round Polished Chrome | 40 mm dia. | P9CET4*N2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | Round Satin Chrome | 40 mm dia. | P9MET4*N2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | Round Engineered Plastic | 40 mm dia. | P9XET4*N2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | Square Engineered Plastic | 40 mm dia. | P9SET4*N2 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | Round Polished Chrome | 40 mm dia. | P9CET4*N3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | Round Satin Chrome | 40 mm dia. | P9MET4*N3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | Round Engineered Plastic | 40 mm dia. | P9XET4*N3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | Square Engineered Plastic | 40 mm dia. | P9SET4*N3 | \$31.00 |

Replace asterisk (*) in product number with color code from table below

*Colors

| Colors | Black | Red | Green | Yellow |
|-------------|-------|-----|-------|--------|
| *Color code | N | R | V | G |



Accessories: See page 9-110 to 9-119
 Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

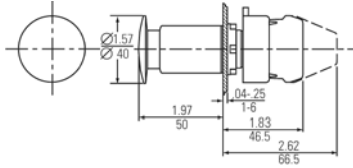
Special Function

Non-Illuminated

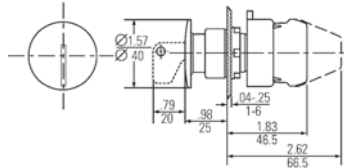
Outlines and Dimensions (mm) (For Estimating Only)

600 VAC Max., 300 VDC Max.

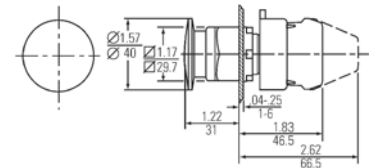
10 Amps Continuous AC, 2.5 Amps Continuous DC



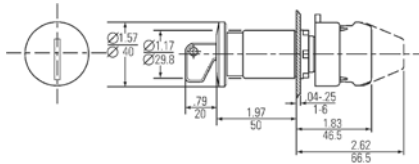
Round Plastic Emergency Stop Turn-to-Release



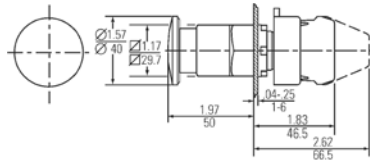
Round Metal Emergency Stop Key-to-Release



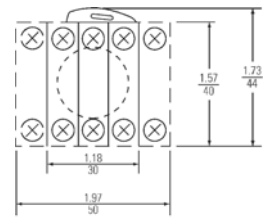
Square Push-Pull Mushroom-Head Push Button



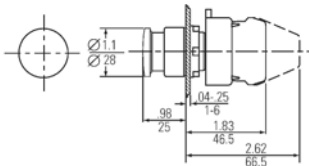
Round Plastic Emergency Stop Key-to-Release



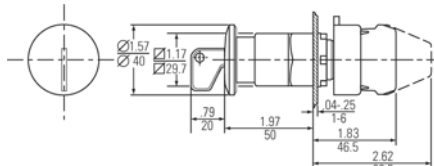
Square Emergency Stop Turn-to-Release



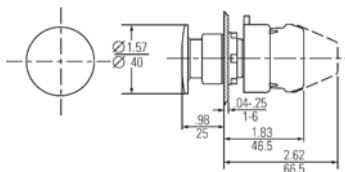
Typical Back Side View



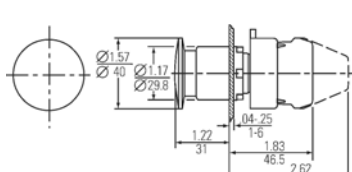
Round Metal Emergency Stop Turn-to-Release (28 mm)



Square Emergency Stop Key-to-Release



Round Metal Emergency Stop Turn-to-Release (40 mm)



Round Push-Pull Mushroom-Head Push Button



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Special Function

Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select power supply from pages 9-100 & 9-101 + Select contact block from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete unit



Illuminated Special Function Push Buttons

Push-Pull

| Position Type | Head Size | Operator Style | Product Number | List Price GO-10GC |
|---|------------|---------------------------|----------------|--------------------|
| 2-Position Maintained | 40 mm dia. | Round Polished Chrome | P9CET4*L1 | \$23.50 |
| 2-Position Maintained | 40 mm dia. | Round Satin Chrome | P9MET4*L1 | \$23.50 |
| 2-Position Maintained | 40 mm dia. | Round Engineered Plastic | P9XET4*L1 | \$23.50 |
| 2-Position Maintained | 40 mm dia. | Square Engineered Plastic | P9SET4*L1 | \$23.50 |
| 3-Position Maintained Push—Momentary Pull | 40 mm dia. | Round Polished Chrome | P9CET4*L2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | 40 mm dia. | Round Satin Chrome | P9MET4*L2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | 40 mm dia. | Round Engineered Plastic | P9XET4*L2 | \$31.00 |
| 3-Position Maintained Push—Momentary Pull | 40 mm dia. | Square Engineered Plastic | P9SET4*L2 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | 40 mm dia. | Round Polished Chrome | P9CET4*L3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | 40 mm dia. | Round Satin Chrome | P9MET4*L3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | 40 mm dia. | Round Engineered Plastic | P9XET4*L3 | \$31.00 |
| 3-Position Momentary Push—Momentary Pull | 40 mm dia. | Square Engineered Plastic | P9SET4*L3 | \$31.00 |

Replace asterisk (*) in product number with color code from table below

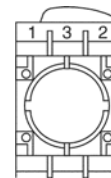
*Colors

| Colors | Red | Green | Yellow | Blue | White | Orange | Clear |
|-------------|-----|-------|--------|------|-------|--------|-------|
| *Color code | R | V | G | L | B | A | I |

Cams - 3 Position Buttons

Note selection and position of contact block(s).

| Operator Type Cam | Position | | | Screw Terminal Contact Block | | Quick-Connect Contact Block | |
|-------------------|----------|--------|------|------------------------------|------------|-----------------------------|------------|
| | Push | Center | Pull | Position 1 | Position 2 | Position 1 | Position 2 |
| Maintained Push— | O | X | X | P9B01VR | — | — | — |
| Momentary Pull | O | O | X | — | P9B01VN | — | — |
| Momentary Push— | X | O | O | — | P9B10VN | — | P9B10FN |
| Momentary Pull | O | O | X | P9B01VN | — | P9B01FN | — |
| | X | O | O | P9B11VN | — | — | — |
| | O | O | X | P9B11VN | — | — | — |



Contact Block Positions (viewed from rear)



Accessories: See page 9-110 to 9-119
 Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

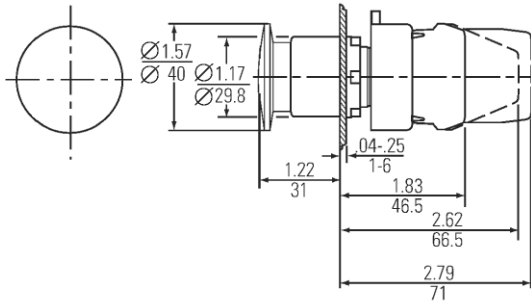
Special Function

Illuminated

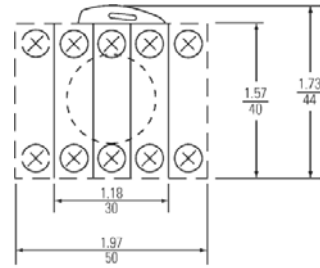
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

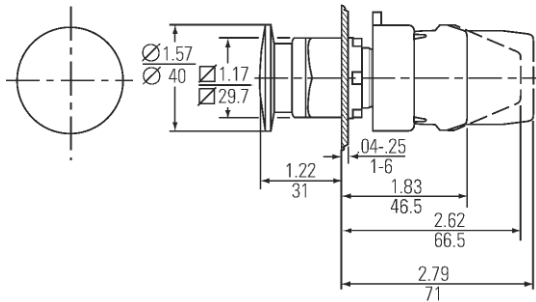
Outlines, Dimensions ($\frac{\text{in}}{\text{mm}}$) (For Estimating Only)



Round Illuminated Push-Pull Mushroom-Head Push Button



Typical Back Side View



Square Illuminated Push-Pull Mushroom-Head Push Button¹

¹Color heads-lenses are listed separately on page 9-112.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Section 9

Key Operated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Operators

| Lockable Position | Operator Style | Key Removal | Product Number | List Price GO-10GC |
|--------------------|--------------------------|----------------|----------------|-----------------------|
| Normal | Round Polished Chrome | Right | P9CPCN1E† | \$50.50 |
| Normal | Round Polished Chrome | Left and Right | P9CPCN1K† | \$50.50 |
| Normal | Round Satin Chrome | Right | P9MPCN1E† | \$50.50 |
| Normal | Round Satin Chrome | Left and Right | P9MPCN1K† | \$50.50 |
| Normal | Round Engineered Plastic | Right | P9XPCN1E† | \$50.50 |
| Normal | Round Engineered Plastic | Left and Right | P9XPCN1K† | \$50.50 |
| Depressed | Round Polished Chrome | Right | P9CPCN2E† | \$50.50 |
| Depressed | Round Polished Chrome | Left and Right | P9CPCN2K† | \$50.50 |
| Depressed | Round Satin Chrome | Right | P9MPCN2E† | \$50.50 |
| Depressed | Round Satin Chrome | Left and Right | P9MPCN2K† | \$50.50 |
| Depressed | Round Engineered Plastic | Right | P9XPCN2E† | \$50.50 |
| Depressed | Round Engineered Plastic | Left and Right | P9XPCN2K† | \$50.50 |
| Normal & Depressed | Round Polished Chrome | Right | P9CPCN3E† | \$50.50 |
| Normal & Depressed | Round Polished Chrome | Left and Right | P9CPCN3K† | \$50.50 |
| Normal & Depressed | Round Satin Chrome | Right | P9MPCN3E† | \$50.50 |
| Normal & Depressed | Round Satin Chrome | Left and Right | P9MPCN3K† | \$50.50 |
| Normal & Depressed | Round Engineered Plastic | Right | P9XPCN3E† | \$50.50 |
| Normal & Depressed | Round Engineered Plastic | Left and Right | P9XPCN3K† | \$50.50 |



Key Operated Push Button

Replace dagger (†) in product number with key code digit from Keys table below

†Keys (Set of 2)

| Key | Std. | Special ¹ | | | | | | | | | |
|-----------|------|----------------------|------|------|------|------|------|------|------|------|--------------|
| Number | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) |
| †Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 |

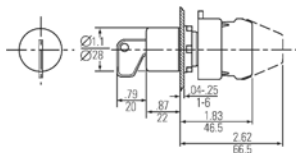
Key Colored¹

| Key | Colored ¹ | | | | |
|-----------|----------------------|---------------|-------------|--------------|----------------|
| Number | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) |
| †Key Code | 33 | 34 | 37 | 38 | 40 |

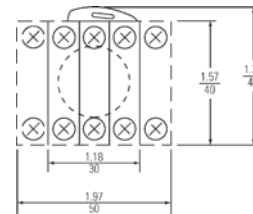
¹To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC.

Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.

Outlines and Dimensions (in/mm) (For Estimating Only)



Round Key Push Button



Typical Back Side View



Accessories: See page 9-110 to 9-119
 Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Selector Operated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Operators

| Operator Style | Product Number | List Price CO-10GC |
|-----------------------|----------------|-----------------------|
| Round Polished Chrome | P9CPS‡G | \$26.50 |
| Round Satin Chrome | P9MPS‡G | \$26.50 |

Replace double dagger (‡) in product number with cam code digits from keys table below

‡Cams

| Cam | 201 | 231 | 235 | 301 | 323 |
|-----------|-----|-----|-----|-----|-----|
| ‡Cam Code | 21 | 22 | 23 | 34 | 35 |
| Positions | 2 | 2 | 2 | 3 | 3 |



Selector Push Button

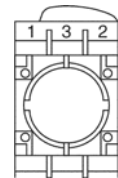
Cam Logic

Note selection and position of contact block(s) for cam.

| Positions | Cam Code | Selector Position | | | | | | Screw Terminal Contact Block | | |
|-----------|----------|-------------------|----|--------|------------------|------------------|------------------|------------------------------|------------|---|
| | | Left | | Center | | Right | | Position 1 | Position 2 | |
| | | Out | In | Out | In | Out | In | | | |
| 2 | 21 | O | O | — | — | O | X | P9B11VN | — | |
| | | X | X | — | — | X | O | | | |
| | | O | X | — | — | O | O | — | P9B11VN | |
| | | X | O | — | — | X | X | | | |
| | | 22 | O | X | — | — | O | X | P9B11VN | — |
| | | | X | O | — | — | X | O | | |
| | O | | O | — | — | X | X | — | P9B11VN | |
| | X | | X | — | — | O | O | | | |
| | 23 | | O | X | — | — | O | N/A ¹ | P9B11VN | — |
| | | | X | O | — | — | X | ↑ | | |
| | | O | O | — | — | X | N/A ¹ | — | P9B11VN | |
| | | X | X | — | — | O | | | | |
| 3 | | 34 | O | O | O | X | O | X | P9B11VN | — |
| | | | X | X | X | O | X | O | | |
| | O | | X | O | X | O | O | — | P9B11VN | |
| | X | | O | X | O | X | X | | | |
| | 35 | | O | O | O | N/A ² | O | X | P9B11VN | — |
| | | | X | X | O | N/A ² | O | O | | |
| | | O | X | O | N/A ² | O | O | — | P9B11VN | |
| | | O | O | O | N/A ² | X | X | | | |

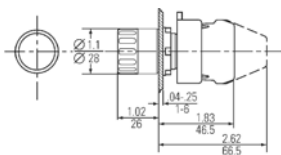
¹Cam 23 cannot be depressed in right position.

²Cam 35 cannot be depressed in center position.

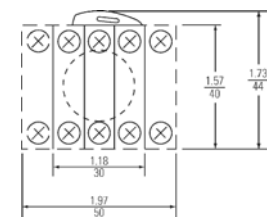


Contact Block Positions
(viewed from rear)

Outlines and Dimensions (in/mm) (For Estimating Only)



Round Selector Push Button



Typical Back Side View



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons C-2000

Section 9

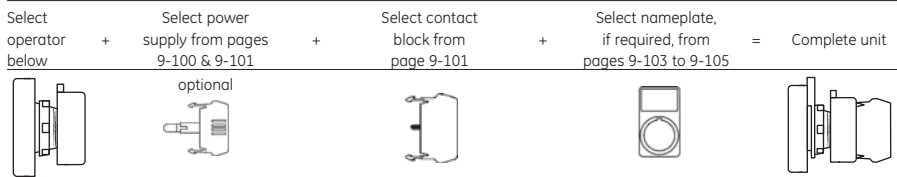
Multi Function

Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process



NEMA 1 Operators

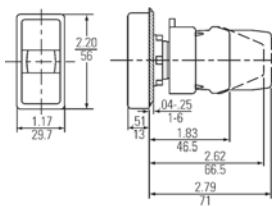
| Color | Special Function Type | Marking | Product Number | List Price GO-10GC |
|------------------------|----------------------------|-----------------|----------------|--------------------|
| Black Top - Red Bottom | Flush | None | P9DPLNRG00 | \$21.50 |
| Black Top - Red Bottom | Flush | Top-I, Bottom-O | P9DPLNRG01 | \$21.50 |
| Black Top - Red Bottom | Flush Top, Extended Bottom | None | P9DPLNRS00 | \$21.50 |
| Black Top - Red Bottom | Flush Top, Extended Bottom | Top-I, Bottom-O | P9DPLNRS01 | \$21.50 |
| Green Top - Red Bottom | Flush | None | P9DPLVRG00 | \$21.50 |
| Green Top - Red Bottom | Flush | Top-I, Bottom-O | P9DPLVRG01 | \$21.50 |
| Green Top - Red Bottom | Flush Top, Extended Bottom | None | P9DPLVRS00 | \$21.50 |
| Green Top - Red Bottom | Flush Top, Extended Bottom | Top-I, Bottom-O | P9DPLVRS01 | \$21.50 |

Multi Function Push Buttons

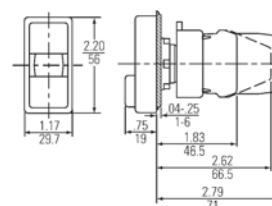
Accessories

| Description | Operator Type | Product Number | List Price GO-10GC |
|---|---------------------------|----------------|--------------------|
| Silicone rubber boot For conversion to NEMA 3, 3R, 3S, 4, 4X, 12 & 13, and IP66 | Flush | O80CPDT | \$5.00 |
| Silicone rubber boot For conversion to NEMA 3, 3R, 3S, 4, 4X, 12 & 13, and IP66 | Flush Top/Extended Bottom | P9ADCST | \$5.00 |

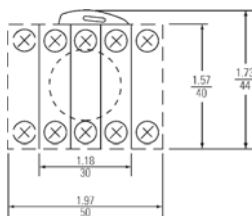
Outlines and Dimensions (mm) (For Estimating Only)



Double Push Button (Top & Bottom Flush)



Double Push Button (Top Flush & Bottom Extended)



Typical Back Side View



Accessories: See page 9-110 to 9-119
Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

2-Position Knob Operated Selector Switches
 Non-Illuminated
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



2-Position Selector Switches

Knob 2 Position

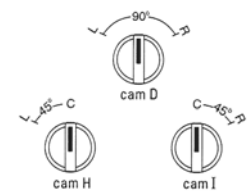
| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|---------------------------|---------------------|----------|----------------|--------------------|
| 2-Position | Round Polished Chrome | Maintained | D, I, H | P9CSM†0* | \$14.50 |
| 2-Position | Round Satin Chrome | Maintained | D, I, H | P9MSM†0* | \$14.50 |
| 2-Position | Round Engineered Plastic | Maintained | D, I, H | P9XSM†0* | \$14.50 |
| 2-Position | Square Engineered Plastic | Maintained | D, I, H | P9SSM†0* | \$14.50 |
| 2-Position | Round Polished Chrome | Spring Return L → C | H | P9CSMH1* | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return L → C | H | P9MSMH1* | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return L → C | H | P9XSMH1* | \$16.50 |
| 2-Position | Square Engineered Plastic | Spring Return L → C | H | P9SSMH1* | \$16.50 |
| 2-Position | Round Polished Chrome | Spring Return L ← R | D | P9CSMD5* | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return L ← R | D | P9MSMD5* | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return L ← R | D | P9XSM5* | \$16.50 |
| 2-Position | Square Engineered Plastic | Spring Return L ← R | D | P9SSMD5* | \$16.50 |
| 2-Position | Round Polished Chrome | Spring Return C ← R | I | P9CSMI5* | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return C ← R | I | P9MSMI5* | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return C ← R | I | P9XSMI5* | \$16.50 |
| 2-Position | Square Engineered Plastic | Spring Return C ← R | I | P9SSMI5* | \$16.50 |

Replace double dagger (‡) in maintained product number with cam code from cams table below.

Cams

Choose desired cam. Note selection and position of contact block(s).

| ‡Cam Code | | | | Quick-Connect | | | |
|-----------|---|---|------------|------------------------------|------------|------------------------|---------|
| | | | | Screw Terminal Contact Block | | Terminal Contact Block | |
| | | | Position 1 | Position 2 | Position 1 | Position 2 | |
| D | O | — | X | — | P9B10VN | — | P9B10FN |
| | X | — | O | P9B01VN | — | P9B01FN | — |
| | O | — | X | P9B11VN | — | — | — |
| | X | — | O | — | — | — | — |
| I | — | O | X | — | P9B10VN | — | P9B10FN |
| | — | X | O | P9B01VN | — | P9B01FN | — |
| | — | O | X | P9B11VN | — | — | — |
| | — | X | O | — | — | — | — |
| H | X | O | — | — | P9B10VN | — | P9B10FN |
| | O | X | — | P9B01VN | — | P9B01FN | — |
| | X | O | — | P9B11VN | — | — | — |
| | O | X | — | — | — | — | — |



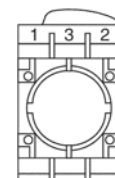
Operator Positions

Replace asterisk (*) in product number with color code from colors table below.

*Colors

| Colors | Black | Red | Green | Yellow | Blue | No Knob ¹ |
|-------------|-------|-----|-------|--------|------|----------------------|
| *Color code | N | R | V | G | L | 0 |

¹Subtract \$3.00 from List Price, GO-10GC, for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.



Contact Block Positions (viewed from rear)



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

Section 9

2-Position Lever Operated Selector Switches

Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Black Lever 2-Position

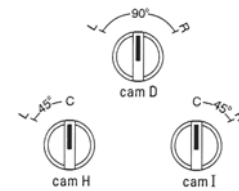
| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|--------------------------|---------------------|----------|----------------|-----------------------|
| 2-Position | Round Polished Chrome | Maintained | D, I, H | P9CSV‡0N | \$14.50 |
| 2-Position | Round Satin Chrome | Maintained | D, I, H | P9MSV‡0N | \$14.50 |
| 2-Position | Round Engineered Plastic | Maintained | D, I, H | P9XSV‡0N | \$14.50 |
| 2-Position | Round Polished Chrome | Spring Return L → C | H | P9CSVH1N | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return L → C | H | P9MSVH1N | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return L → C | H | P9XSVH1N | \$16.50 |
| 2-Position | Round Polished Chrome | Spring Return L ← R | D | P9CSVDSN | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return L ← R | D | P9MSVDSN | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return L ← R | D | P9XSVDSN | \$16.50 |
| 2-Position | Round Polished Chrome | Spring Return C ← R | I | P9CSV5N | \$16.50 |
| 2-Position | Round Satin Chrome | Spring Return C ← R | I | P9MSV5N | \$16.50 |
| 2-Position | Round Engineered Plastic | Spring Return C ← R | I | P9XSV5N | \$16.50 |

Replace double dagger (‡) in maintained product number with cam code from cams table below.

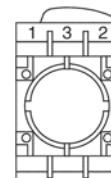
Cams

Choose desired cam. Note selection and position of contact block(s).

| ‡Cam Code | | | | Screw Terminal Contact Block | | Quick-Connect Terminal Contact Block | |
|-----------|---|---|---|------------------------------|------------|--------------------------------------|------------|
| | | | | Position 1 | Position 2 | Position 1 | Position 2 |
| D | O | — | X | — | P9B10VN | — | P9B10FN |
| | X | — | O | P9B01VN | — | P9B01FN | — |
| | O | — | X | P9B11VN | — | — | — |
| | X | — | O | — | — | — | — |
| I | — | O | X | — | P9B10VN | — | P9B10FN |
| | — | X | O | P9B01VN | — | P9B01FN | — |
| | — | O | X | P9B11VN | — | — | — |
| | — | X | O | — | — | — | — |
| H | X | O | — | — | P9B10VN | — | P9B10FN |
| | O | X | — | P9B01VN | — | P9B01FN | — |
| | X | O | — | P9B11VN | — | — | — |
| | O | X | — | — | — | — | — |



Operator Positions



Contact Block Positions
(viewed from rear)



Outlines and Dimensions: See page 9-85

Accessories: See page 9-110 to 9-119

Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

3-Position Knob Operated Selector Switches
Non-Illuminated
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Knob 3-Position

| Position Type | Operator Style | Release Type | Cam Codes | Product Number | List Price GO-10GC |
|---------------|---------------------------|-------------------------|------------|----------------|--------------------|
| 3-Position | Round Polished Chrome | Maintained | Z, E, L, U | P9CSM#0* | \$14.50 |
| 3-Position | Round Satin Chrome | Maintained | Z, E, L, U | P9MSM#0* | \$14.50 |
| 3-Position | Round Engineered Plastic | Maintained | Z, E, L, U | P9XSM#0* | \$14.50 |
| 3-Position | Square Engineered Plastic | Maintained | Z, E, L, U | P9SSM#0* | \$14.50 |
| 3-Position | Round Polished Chrome | Spring Return L → C | Z, E, L, U | P9CSM#1* | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return L → C | Z, E, L, U | P9MSM#1* | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return L → C | Z, E, L, U | P9XSM#1* | \$16.50 |
| 3-Position | Square Engineered Plastic | Spring Return L → C | Z, E, L, U | P9SSM#1* | \$16.50 |
| 3-Position | Round Polished Chrome | Spring Return C ← R | Z, E, L, U | P9CSM#5* | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return C ← R | Z, E, L, U | P9MSM#5* | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return C ← R | Z, E, L, U | P9XSM#5* | \$16.50 |
| 3-Position | Square Engineered Plastic | Spring Return C ← R | Z, E, L, U | P9SSM#5* | \$16.50 |
| 3-Position | Round Polished Chrome | Spring Return L → C ← R | Z, E, L, U | P9CSM#3* | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return L → C ← R | Z, E, L, U | P9MSM#3* | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return L → C ← R | Z, E, L, U | P9XSM#3* | \$16.50 |
| 3-Position | Square Engineered Plastic | Spring Return L → C ← R | Z, E, L, U | P9SSM#3* | \$16.50 |

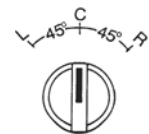
3-Position Selector Switches

Replace double dagger (§) in product number with cam code from cams table below.

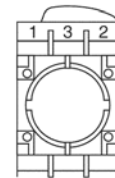
Cams

Choose desired cam. Note selection and position of contact block(s).

| §Cam Code | | | | Screw Terminal Contact Block | | | | Quick-Connect Terminal Contact Block | |
|-----------|---|---|---|------------------------------|------------|------------|------------|--------------------------------------|--|
| | | | | Position 1 | Position 2 | Position 1 | Position 2 | | |
| Z | 0 | 0 | X | P9B10VN | — | P9B10FN | — | — | |
| | X | 0 | 0 | — | P9B10VN | — | P9B10FN | — | |
| | X | X | 0 | P9B01VN | — | P9B01FN | — | — | |
| | 0 | X | X | — | P9B01VN | — | P9B01FN | — | |
| | 0 | 0 | X | P9B11VN | — | — | — | — | |
| | X | X | 0 | — | — | — | — | — | |
| | X | 0 | 0 | — | P9B11VN | — | — | — | |
| E | 0 | 0 | X | — | P9B01VN | — | P9B01FN | — | |
| | 0 | X | 0 | P9B10VN | — | P9B10FN | — | — | |
| | 0 | 0 | X | P9B11VN | — | — | — | — | |
| | 0 | 0 | X | — | — | — | — | — | |
| L | X | 0 | 0 | — | P9B10VN | — | P9B10FN | — | |
| | 0 | X | 0 | P9B01VN | — | P9B01FN | — | — | |
| | X | 0 | 0 | — | — | — | — | — | |
| | 0 | X | 0 | P9B11VN | — | — | — | — | |
| U | 0 | 0 | X | P9B11VN | — | — | — | — | |
| | 0 | X | 0 | — | — | — | — | — | |
| | 0 | 0 | X | — | P9B11VN | — | — | — | |
| | X | 0 | 0 | — | — | — | — | — | |



Operator Positions



Contact Block Positions (viewed from rear)

Replace asterisk (*) in product number with color code from colors table below.

*Colors

| Colors | Black | Red | Green | Yellow | Blue | No Knob ¹ |
|-------------|-------|-----|-------|--------|------|----------------------|
| *Color code | N | R | V | G | L | 0 |

¹Subtract \$3.00 from List Price, GO-10GC, for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

Section 9

3-Position Lever Operated Selector Switches

Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC


Black Lever 3-Position

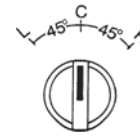
| Position Type | Operator Style | Release Type | Cam Codes | Product Number | List Price GO-10GC |
|---------------|--------------------------|-------------------------|------------|----------------|-----------------------|
| 3-Position | Round Polished Chrome | Maintained | Z, E, L, U | P9CSV#0N | \$14.50 |
| 3-Position | Round Satin Chrome | Maintained | Z, E, L, U | P9MSV#0N | \$14.50 |
| 3-Position | Round Engineered Plastic | Maintained | Z, E, L, U | P9XSV#0N | \$14.50 |
| 3-Position | Round Polished Chrome | Spring Return L → C | Z, E, L, U | P9CSV#1N | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return L → C | Z, E, L, U | P9MSV#1N | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return L → C | Z, E, L, U | P9XSV#1N | \$16.50 |
| 3-Position | Round Polished Chrome | Spring Return C ← R | Z, E, L, U | P9CSV#5N | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return C ← R | Z, E, L, U | P9MSV#5N | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return C ← R | Z, E, L, U | P9XSV#5N | \$16.50 |
| 3-Position | Round Polished Chrome | Spring Return L → C ← R | Z, E, L, U | P9CSV#3N | \$16.50 |
| 3-Position | Round Satin Chrome | Spring Return L → C ← R | Z, E, L, U | P9MSV#3N | \$16.50 |
| 3-Position | Round Engineered Plastic | Spring Return L → C ← R | Z, E, L, U | P9XSV#3N | \$16.50 |

Replace double dagger (§) in product number with cam code from cams table below.

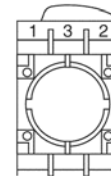
Cams

Choose desired cam. Note selection and position of contact block(s).

| §Cam Code |  | | | Quick-Connect | | | |
|-----------|---|---|---|------------------------------|------------|------------------------|------------|
| | | | | Screw Terminal Contact Block | | Terminal Contact Block | |
| | | | | Position 1 | Position 2 | Position 1 | Position 2 |
| Z | 0 | 0 | X | P9B10VN | — | P9B10FN | — |
| | X | 0 | 0 | — | P9B10VN | — | P9B10FN |
| | X | X | 0 | P9B01VN | — | P9B01FN | — |
| | 0 | X | X | — | P9B01VN | — | P9B01FN |
| | 0 | 0 | X | P9B11VN | — | — | — |
| | X | X | 0 | — | — | — | — |
| | X | 0 | 0 | — | P9B11VN | — | — |
| | 0 | X | X | — | — | — | — |
| E | 0 | 0 | X | — | P9B01VN | — | P9B01FN |
| | 0 | X | 0 | P9B10VN | — | P9B10FN | — |
| | 0 | 0 | X | P9B11VN | — | — | — |
| | 0 | 0 | X | P9B11VN | — | — | — |
| L | X | 0 | 0 | — | P9B10VN | — | P9B10FN |
| | 0 | X | 0 | P9B01VN | — | P9B01FN | — |
| | X | 0 | 0 | — | — | — | — |
| | 0 | X | 0 | P9B11VN | — | — | — |
| U | 0 | 0 | X | P9B11VN | — | — | — |
| | 0 | X | 0 | — | — | — | — |
| | 0 | 0 | X | — | P9B11VN | — | — |
| | X | 0 | 0 | — | — | — | — |



Operator Positions



Contact Block Positions
(viewed from rear)



Outlines and Dimensions: See page 9-85

Accessories: See page 9-110 to 9-119

Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

4-Position Knob and Lever Operated Selector Switches

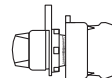
Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Knob 4-Position

| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|---------------------------|----------------------|----------|----------------|-----------------------|
| 4-Position | Round Polished Chrome | Maintained | X | P9CSMX0* | \$14.50 |
| 4-Position | Round Satin Chrome | Maintained | X | P9MSMX0* | \$14.50 |
| 4-Position | Round Engineered Plastic | Maintained | X | P9XSMX0* | \$14.50 |
| 4-Position | Square Engineered Plastic | Maintained | X | P9SSMX0* | \$14.50 |
| 4-Position | Round Polished Chrome | Spring Return R ← 2R | X | P9CSMX5* | \$18.50 |
| 4-Position | Round Satin Chrome | Spring Return R ← 2R | X | P9MSMX5* | \$18.50 |
| 4-Position | Round Engineered Plastic | Spring Return R ← 2R | X | P9XSMX5* | \$18.50 |
| 4-Position | Square Engineered Plastic | Spring Return R ← 2R | X | P9SSMX5* | \$18.50 |

4-Position Selector Switches

Black Lever 4-Position

| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|--------------------------|----------------------|----------|----------------|-----------------------|
| 4-Position | Round Polished Chrome | Maintained | X | P9CSVX0N | \$14.50 |
| 4-Position | Round Satin Chrome | Maintained | X | P9MSVX0N | \$14.50 |
| 4-Position | Round Engineered Plastic | Maintained | X | P9XSVX0N | \$14.50 |
| 4-Position | Round Polished Chrome | Spring Return R ← 2R | X | P9CSVX5N | \$18.50 |
| 4-Position | Round Satin Chrome | Spring Return R ← 2R | X | P9MSVX5N | \$18.50 |
| 4-Position | Round Engineered Plastic | Spring Return R ← 2R | X | P9XSVX5N | \$18.50 |

Cams

Note selection and position of contact block(s).

| Cam Code | | | | | Screw Terminal Contact Block | |
|----------|------------|------------|------------|------------|------------------------------|------------|
| | Position 1 | Position 2 | Position 1 | Position 2 | Position 1 | Position 2 |
| X | 0 | X | 0 | 0 | P9B11VN | — |
| | 0 | 0 | 0 | X | | |
| | 0 | 0 | X | 0 | | |
| | X | 0 | 0 | 0 | — | P9B11VN |



Operator Positions

Replace asterisk (*) in product number with color code from colors table below.

*Colors

| Colors | Black | Red | Green | Yellow | Blue | No Knob ¹ |
|-------------|-------|-----|-------|--------|------|----------------------|
| *Color code | N | R | V | G | L | 0 |

¹Subtract \$3.00 from List Price, GO-10GC, for selector switches ordered without knobs.

Color knobs are listed separately on page 9-111.



Contact Block Positions (viewed from rear)



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

Section 9

5-Position Knob and Lever Operated Selector Switches
 Non-Illuminated
 600 VAC Max., 300 VCD Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



5-Position Selector Switches

Knob 5-Position

| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|---------------------------|--------------|----------|----------------|-----------------------|
| 5-Position | Round Polished Chrome | Maintained | X, Y | P9CSM‡0* | \$26.00 |
| 5-Position | Round Satin Chrome | Maintained | X, Y | P9MSM‡0* | \$26.00 |
| 5-Position | Round Engineered Plastic | Maintained | X, Y | P9XSM‡0* | \$26.00 |
| 5-Position | Square Engineered Plastic | Maintained | X, Y | P9SSM‡0* | \$26.00 |

Black Lever 5-Position

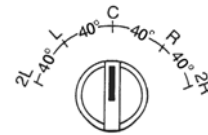
| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|--------------------------|--------------|----------|----------------|-----------------------|
| 5-Position | Round Polished Chrome | Maintained | X, Y | P9CSV‡0N | \$26.00 |
| 5-Position | Round Satin Chrome | Maintained | X, Y | P9MSV‡0N | \$26.00 |
| 5-Position | Round Engineered Plastic | Maintained | X, Y | P9XSV‡0N | \$26.00 |

Replace double dagger (‡) in maintained product number with cam code from cams table below.

Cams

Choose desired cam. Note selection and position of contact block(s).

| ‡Cam Code | | | | | | Screw Terminal Contact Block | |
|-----------|---|---|---|---|---|------------------------------|------------|
| | | | | | | Position 1 | Position 2 |
| W | | | | | | P9B11VN | — |
| | 0 | 0 | X | 0 | 0 | — | P9B11VN |
| | 0 | 0 | 0 | 0 | X | — | P9B11VN |
| Y | 0 | X | 0 | 0 | 0 | P9B11VN | — |
| | 0 | 0 | 0 | 0 | X | — | P9B11VN |
| | 0 | 0 | 0 | X | 0 | — | P9B11VN |
| | X | 0 | 0 | 0 | 0 | — | P9B11VN |



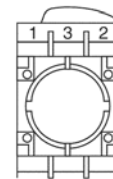
Operator Positions

Replace asterisk (*) in product number with color code from colors table below.

*Colors

| Colors | Black | Red | Green | Yellow | Blue | No Knob ¹ |
|-------------|-------|-----|-------|--------|------|----------------------|
| *Color code | N | R | V | G | L | 0 |

¹Subtract \$3.00 from List Price, GO-10GC, for selector switches ordered without knobs.
 Color knobs are listed separately on page 9-111.



Contact Block Positions
(viewed from rear)



Outlines and Dimensions: See page 9-85
 Accessories: See page 9-110 to 9-119
 Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

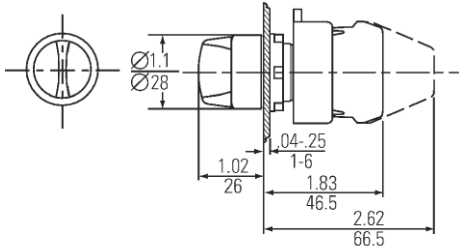
Knob and Lever Operated

Non-Illuminated

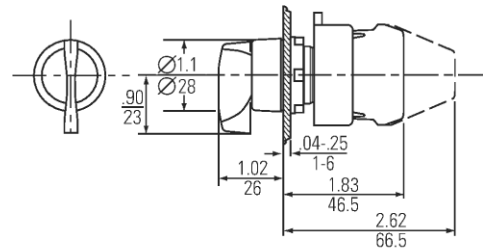
Outlines and Dimensions ($\frac{in}{mm}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

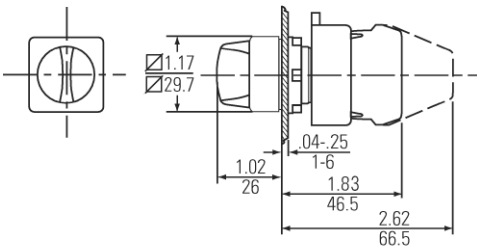
10 Amps Continuous AC, 2.5 Amps Continuous DC



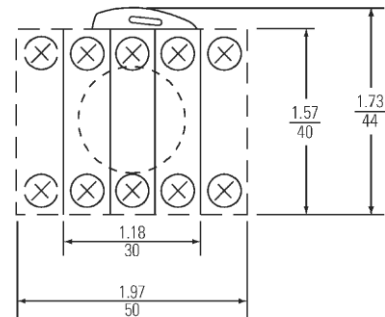
Round Knob Selector Switch



Round Lever Selector Switch



Square Knob Selector Switch



Typical Back Side View

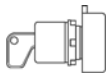


Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

2-Position Key Operated Selector Switches
Non-Illuminated
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



2-Position Key Selector Switches

Key 2-Position

| Position Type | Release Type | Cam Code | Key Removal | Product Number | List Price GO-10GC |
|---------------|---------------------|----------|------------------|----------------|-----------------------|
| 2-Position | Maintained | D | Left | P9#SCD0A† | \$43.50 |
| 2-Position | Maintained | D | Right | P9#SCD0E† | \$43.50 |
| 2-Position | Maintained | D | Left and Right | P9#SCD0K† | \$43.50 |
| 2-Position | Maintained | I | Center | P9#SCIO† | \$43.50 |
| 2-Position | Maintained | I | Right | P9#SCIOE† | \$43.50 |
| 2-Position | Maintained | I | Center and Right | P9#SCION† | \$43.50 |
| 2-Position | Maintained | H | Left | P9#SCH0A† | \$43.50 |
| 2-Position | Maintained | H | Center | P9#SCH0C† | \$43.50 |
| 2-Position | Maintained | H | Left and Center | P9#SCH0H† | \$43.50 |
| 2-Position | Spring Return L → C | H | Center | P9#SCH1C† | \$56.50 |
| 2-Position | Spring Return C ← R | D | Left | P9#SCD5A† | \$56.50 |
| 2-Position | Spring Return C ← R | I | Center | P9#SCI5C† | \$56.50 |

Replace pound sign (#) in product number with style code from Styles table.

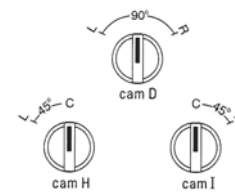
#Styles

| Style | Polished Chrome | Satin Chrome | Round Engineered Plastic | Square Engineered Plastic |
|-------------|-----------------|--------------|--------------------------|---------------------------|
| #Style Code | C | M | X | S |

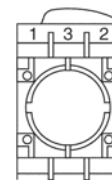
Cams

Note position of contact block for cam selection.

| Cam Code | | | | Quick-Connect | | | |
|----------|---|---|---|------------------------------|------------|------------------------|------------|
| | | | | Screw Terminal Contact Block | | Terminal Contact Block | |
| | | | | Position 1 | Position 2 | Position 1 | Position 2 |
| D | 0 | — | X | — | P9B10VN | — | P9B10FN |
| | X | — | 0 | P9B01VN | — | P9B01FN | — |
| | 0 | — | X | P9B11VN | — | — | — |
| | X | — | 0 | — | — | — | — |
| I | — | 0 | X | — | P9B10VN | — | P9B10FN |
| | — | X | 0 | P9B01VN | — | P9B01FN | — |
| | — | 0 | X | P9B11VN | — | — | — |
| | — | X | 0 | — | — | — | — |
| H | X | 0 | — | — | P9B10VN | — | P9B10FN |
| | 0 | X | — | P9B01VN | — | P9B01FN | — |
| | X | 0 | — | P9B11VN | — | — | — |
| | 0 | X | — | — | — | — | — |



Operator Positions



Contact Block Positions
(viewed from rear)

Replace dagger (†) in product number with key code from Keys table.

†Keys

| Key | Std. | Special ¹ | | | | | | | | | | |
|-----------|----------------------|----------------------|------|---------------|------|------|-------------|------|--------------|------|----------------|--|
| Number | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) | |
| †Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 | |
| Key | Colored ¹ | | | | | | | | | | | |
| Number | 73033 (Yellow) | | | 73034 (Black) | | | 73037 (Red) | | 73038 (Blue) | | 73040 (Orange) | |
| †Key Code | 33 | | | 34 | | | 37 | | 38 | | 40 | |

¹To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC.

Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.



Outlines and Dimensions: See page 9-90
Accessories: See page 9-110 to 9-119
Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

3-Position Key Operated Selector Switches

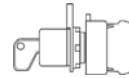
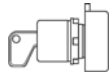
Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Key Operated 3-Position

3-Position Key Selector Switches

| Position Type | Release Type | Cam Code | Key Removal | Product Number | List Price GO-10GC |
|---------------|-------------------------|----------|------------------------|----------------|--------------------|
| 3-Position | Maintained | Z | Left | P9#SCZ0A† | \$43.50 |
| 3-Position | Maintained | Z | Center | P9#SCZ0C† | \$43.50 |
| 3-Position | Maintained | Z | Right | P9#SCZ0E† | \$43.50 |
| 3-Position | Maintained | Z | Left and Center | P9#SCZ0H† | \$43.50 |
| 3-Position | Maintained | Z | Left and Right | P9#SCZ0K† | \$43.50 |
| 3-Position | Maintained | Z | Center and Right | P9#SCZ0N† | \$43.50 |
| 3-Position | Maintained | Z | Left, Center and Right | P9#SCZ0T† | \$43.50 |
| 3-Position | Maintained | E | Left | P9#SCE0A† | \$43.50 |
| 3-Position | Maintained | E | Center | P9#SCE0C† | \$43.50 |
| 3-Position | Maintained | E | Right | P9#SCE0E† | \$43.50 |
| 3-Position | Maintained | E | Left and Center | P9#SCE0H† | \$43.50 |
| 3-Position | Maintained | E | Left and Right | P9#SCE0K† | \$43.50 |
| 3-Position | Maintained | E | Center and Right | P9#SCE0N† | \$43.50 |
| 3-Position | Maintained | E | Left, Center and Right | P9#SCE0T† | \$43.50 |
| 3-Position | Maintained | L | Left | P9#SCL0A† | \$43.50 |
| 3-Position | Maintained | L | Center | P9#SCL0C† | \$43.50 |
| 3-Position | Maintained | L | Right | P9#SCL0E† | \$43.50 |
| 3-Position | Maintained | L | Left and Center | P9#SCL0H† | \$43.50 |
| 3-Position | Maintained | L | Left and Right | P9#SCL0K† | \$43.50 |
| 3-Position | Maintained | L | Center and Right | P9#SCL0N† | \$43.50 |
| 3-Position | Maintained | L | Left, Center and Right | P9#SCL0T† | \$43.50 |
| 3-Position | Maintained | U | Left | P9#SCU0A† | \$43.50 |
| 3-Position | Maintained | U | Center | P9#SCU0C† | \$43.50 |
| 3-Position | Maintained | U | Right | P9#SCU0E† | \$43.50 |
| 3-Position | Maintained | U | Left and Center | P9#SCU0H† | \$43.50 |
| 3-Position | Maintained | U | Left and Right | P9#SCU0K† | \$43.50 |
| 3-Position | Maintained | U | Center and Right | P9#SCU0N† | \$43.50 |
| 3-Position | Maintained | U | Left, Center and Right | P9#SCU0T† | \$43.50 |
| 3-Position | Spring Return L → C | Z | Center | P9#SCZ1C† | \$56.50 |
| 3-Position | Spring Return L → C | Z | Right | P9#SCZ1E† | \$56.50 |
| 3-Position | Spring Return L → C | Z | Center and Right | P9#SCZ1N† | \$56.50 |
| 3-Position | Spring Return L → C | E | Center | P9#SCE1C† | \$56.50 |
| 3-Position | Spring Return L → C | E | Right | P9#SCE1E† | \$56.50 |
| 3-Position | Spring Return L → C | E | Center and Right | P9#SCE1N† | \$56.50 |
| 3-Position | Spring Return L → C | L | Center | P9#SCL1C† | \$56.50 |
| 3-Position | Spring Return L → C | L | Right | P9#SCL1E† | \$56.50 |
| 3-Position | Spring Return L → C | L | Center and Right | P9#SCL1N† | \$56.50 |
| 3-Position | Spring Return L → C | U | Center | P9#SCU1C† | \$56.50 |
| 3-Position | Spring Return L → C | U | Right | P9#SCU1E† | \$56.50 |
| 3-Position | Spring Return L → C | U | Center and Right | P9#SCU1N† | \$56.50 |
| 3-Position | Spring Return C ← R | Z | Left | P9#SCZ5A† | \$56.50 |
| 3-Position | Spring Return C ← R | Z | Center | P9#SCZ5C† | \$56.50 |
| 3-Position | Spring Return C ← R | Z | Left and Center | P9#SCZ5H† | \$56.50 |
| 3-Position | Spring Return C ← R | E | Left | P9#SCE5A† | \$56.50 |
| 3-Position | Spring Return C ← R | E | Center | P9#SCE5C† | \$56.50 |
| 3-Position | Spring Return C ← R | E | Left and Center | P9#SCE5H† | \$56.50 |
| 3-Position | Spring Return C ← R | L | Left | P9#SCL5A† | \$56.50 |
| 3-Position | Spring Return C ← R | L | Center | P9#SCL5C† | \$56.50 |
| 3-Position | Spring Return C ← R | L | Left and Center | P9#SCL5H† | \$56.50 |
| 3-Position | Spring Return C ← R | U | Left | P9#SCU5A† | \$56.50 |
| 3-Position | Spring Return C ← R | U | Center | P9#SCU5C† | \$56.50 |
| 3-Position | Spring Return C ← R | U | Left and Center | P9#SCU5H† | \$56.50 |
| 3-Position | Spring Return L → C ← R | Z | Center | P9#SCZ3C† | \$56.50 |
| 3-Position | Spring Return L → C ← R | E | Center | P9#SCE3C† | \$56.50 |
| 3-Position | Spring Return L → C ← R | L | Center | P9#SCL3C† | \$56.50 |
| 3-Position | Spring Return L → C ← R | U | Center | P9#SCU3C† | \$56.50 |

Replace pound sign (#) in product number with style code from Styles table on page 9-88.
 Replace dagger (†) in product number with key code from Keys table on page 9-88.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

Section 9

3-Position Key Operated Selector Switches

Non-Illuminated

600 VAC Max., 300 VDC Max.




10 Amps Continuous AC, 2.5 Amps Continuous DC

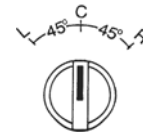
#Styles

| Style | Polished Chrome | Satin Chrome | Round Engineered Plastic | Square Engineered Plastic |
|-------------|-----------------|--------------|--------------------------|---------------------------|
| #Style Code | C | M | X | S |

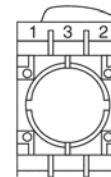
Cams

Note selection and position of contact block(s) for cam selection.

| Cam Code (6th digit in product number) | | | | Quick-Connect | | | |
|--|---|---|---|------------------------------|------------|------------------------|------------|
| |  |  |  | Screw Terminal Contact Block | | Terminal Contact Block | |
| | | | | Position 1 | Position 2 | Position 1 | Position 2 |
| Z | 0 | 0 | X | P9B10VN | — | P9B10FN | — |
| | X | 0 | 0 | — | P910VN | — | P9B10FN |
| | X | X | 0 | P9B01VN | — | P9B01FN | — |
| | 0 | X | X | — | P9B01VN | — | P9B01FN |
| | 0 | 0 | X | P9B11VN | — | — | — |
| | X | X | 0 | — | — | — | — |
| | X | 0 | 0 | — | P9B11VN | — | — |
| | 0 | X | X | — | — | — | — |
| E | 0 | 0 | X | — | P9B01VN | — | P9B01FN |
| | 0 | X | 0 | P9B10VN | — | P9B10FN | — |
| | 0 | 0 | X | P9B11VN | — | — | — |
| | 0 | X | 0 | — | — | — | — |
| L | X | 0 | 0 | — | P9B10VN | — | P9B10FN |
| | 0 | X | 0 | P9B01VN | — | P9B01FN | — |
| | X | 0 | 0 | P9B11VN | — | — | — |
| | 0 | X | 0 | — | — | — | — |
| U | 0 | 0 | X | — | — | — | — |
| | 0 | X | 0 | P9B11VN | — | — | — |
| | 0 | 0 | X | — | P9B11VN | — | — |
| | X | 0 | 0 | — | — | — | — |



Operator Positions



Contact Block Positions
(viewed from rear)

†Keys

| Key Number | Std. | Special ¹ | | | | | | | | | | Colored ¹ | | | | |
|------------|------|----------------------|------|------|------|------|------|------|------|------|--------------|----------------------|---------------|-------------|--------------|----------------|
| | | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) |
| †Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 | 33 | 34 | 37 | 38 | 40 |

¹To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC. Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

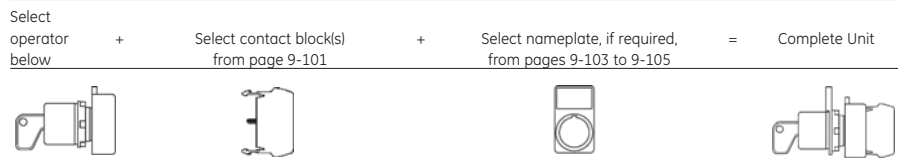
4-Position Key Operated Selector Switches

Non-Illuminated

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process



4-Position Key Selector Switches

Key Operated 4-Position

| Position Type | Release Type | Cam Code | Key Removal | Product Number | List Price GO-10GC |
|---------------|----------------------|----------|---------------------------------|----------------|-----------------------|
| 4-Position | Maintained | X | 2 Left | P9#SCX0A† | \$53.00 |
| 4-Position | Maintained | X | Left | P9#SCX0B† | \$53.00 |
| 4-Position | Maintained | X | Right | P9#SCX0D† | \$53.00 |
| 4-Position | Maintained | X | 2 Right | P9#SCX0E† | \$53.00 |
| 4-Position | Maintained | X | 2 Left and Left | P9#SCX0F† | \$53.00 |
| 4-Position | Maintained | X | 2 Left and Right | P9#SCX0J† | \$53.00 |
| 4-Position | Maintained | X | 2 Left and 2 Right | P9#SCX0K† | \$53.00 |
| 4-Position | Maintained | X | Left and Right | P9#SCX0L† | \$53.00 |
| 4-Position | Maintained | X | Left and 2 Right | P9#SCX0M† | \$53.00 |
| 4-Position | Maintained | X | Right and 2 Right | P9#SCX0P† | \$53.00 |
| 4-Position | Maintained | X | 2 Left, Left and Right | P9#SCX0R† | \$53.00 |
| 4-Position | Maintained | X | 2 Left, Left and 2 Right | P9#SCX0S† | \$53.00 |
| 4-Position | Maintained | X | 2 Left, Right and 2 Right | P9#SCX0U† | \$53.00 |
| 4-Position | Maintained | X | Left, Right and 2 Right | P9#SCX0V† | \$53.00 |
| 4-Position | Maintained | X | 2 Left, Left, Right and 2 Right | P9#SCX0Z† | \$53.00 |
| 4-Position | Spring Return 2R → R | X | 2 Left | P9#SCX5A† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | Left | P9#SCX5B† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | Right | P9#SCX5D† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | 2 Left and Left | P9#SCX5F† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | 2 Left and Right | P9#SCX5J† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | Left and Right | P9#SCX5L† | \$66.00 |
| 4-Position | Spring Return 2R → R | X | 2 Left, Left and Right | P9#SCX5R† | \$66.00 |

Replace pound sign (#) in product number with style code from Styles table.

#Styles

| Style | Polished Chrome | Satin Chrome | Round Engineered Plastic | Square Engineered Plastic |
|-------------|-----------------|--------------|--------------------------|---------------------------|
| #Style Code | C | M | X | S |

Cams

Note selection and position of contact block(s).

| Cam Code | | | | | Screw Terminal Contact Block | |
|----------|---|---|---|---|------------------------------|------------|
| | | | | | Position 1 | Position 2 |
| X | 0 | X | 0 | 0 | P9B11VN | — |
| | 0 | 0 | 0 | X | — | — |
| | 0 | 0 | X | 0 | — | P9B11VN |
| | X | 0 | 0 | 0 | — | — |

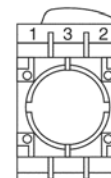


Operator Positions

Replace dagger (†) in product number with key code from Keys table.

†Keys

| Key Number | Std. | | | | | | | | | | Special ¹ | | | | | Colored ¹ | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------|---------------|-------------|--------------|----------------------|--|--|--|--|
| | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) | | | | |
| †Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 | 33 | 34 | 37 | 38 | 40 | | | | |



Contact Block Positions (viewed from rear)

¹To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC. Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

Section 9

C-2000

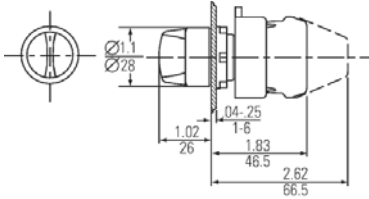
Key Operated

Non-Illuminated

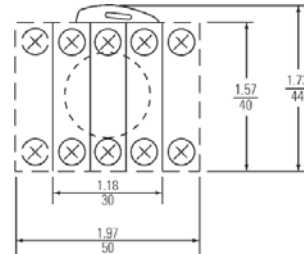
Outlines and Dimensions ($\frac{\text{in}}{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

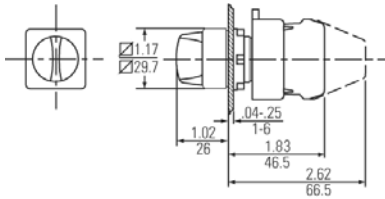
10 Amps Continuous AC, 2.5 Amps Continuous DC



Round Key Selector Switch



Typical Back Side View



Square Key Selector Switch



Product Number Selection Instructions: See page 9-87

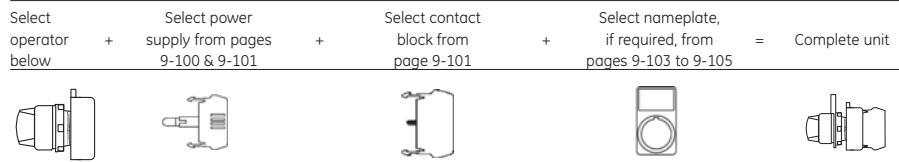
Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

2- and 3-Position Knob Operated Selector Switches
 Illuminated
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process



2- and 3-Position Illuminated Knob Operated Selector Switches

Knob Operated

| Position Type | Operator Style | Release Type | Cam Code | Product Number | List Price GO-10GC |
|---------------|---------------------------|-------------------------|----------|----------------|--------------------|
| 2-Position | Round Polished Chrome | Maintained | D | P9CSLD0* | \$18.50 |
| 2-Position | Round Satin Chrome | Maintained | D | P9MSLD0* | \$18.50 |
| 2-Position | Round Engineered Plastic | Maintained | D | P9XSLD0* | \$18.50 |
| 2-Position | Square Engineered Plastic | Maintained | D | P9SSLD0* | \$18.50 |
| 3-Position | Round Polished Chrome | Maintained | Z | P9CSLZ0* | \$18.50 |
| 3-Position | Round Satin Chrome | Maintained | Z | P9MSLZ0* | \$18.50 |
| 3-Position | Round Engineered Plastic | Maintained | Z | P9XSLZ0* | \$18.50 |
| 3-Position | Square Engineered Plastic | Maintained | Z | P9SSLZ0* | \$18.50 |
| 3-Position | Round Polished Chrome | Spring Return L → C | Z | P9CSLZ1* | \$26.00 |
| 3-Position | Round Satin Chrome | Spring Return L → C | Z | P9MSLZ1* | \$26.00 |
| 3-Position | Round Engineered Plastic | Spring Return L → C | Z | P9XSLZ1* | \$26.00 |
| 3-Position | Square Engineered Plastic | Spring Return L → C | Z | P9SSLZ1* | \$26.00 |
| 3-Position | Round Polished Chrome | Spring Return C ← R | Z | P9CSLZ5* | \$26.00 |
| 3-Position | Round Satin Chrome | Spring Return C ← R | Z | P9MSLZ5* | \$26.00 |
| 3-Position | Round Engineered Plastic | Spring Return C ← R | Z | P9XSLZ5* | \$26.00 |
| 3-Position | Square Engineered Plastic | Spring Return C ← R | Z | P9SSLZ5* | \$26.00 |
| 3-Position | Round Polished Chrome | Spring Return L → C ← R | Z | P9CSLZ3* | \$26.00 |
| 3-Position | Round Satin Chrome | Spring Return L → C ← R | Z | P9MSLZ3* | \$26.00 |
| 3-Position | Round Engineered Plastic | Spring Return L → C ← R | Z | P9XSLZ3* | \$26.00 |
| 3-Position | Square Engineered Plastic | Spring Return L → C ← R | Z | P9SSLZ3* | \$26.00 |

Replace asterisk (*) in product number with color code from Colors table below.

*Colors

| Color | Red | Green | Yellow | Blue | White | Orange | Clear | No Knob ¹ |
|-------------|-----|-------|--------|------|-------|--------|-------|----------------------|
| *Color Code | R | V | G | L | B | A | I | 0 |

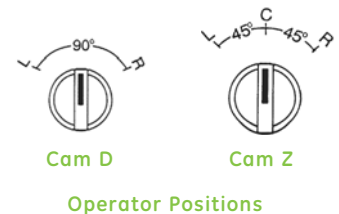
¹When ordering operator without knob, deduct \$3.00 from List Price, GO-10GC. Color lenses are listed separately on page 9-112.

Cams

Note selection and position of contact block(s) according to operator type.

2-Position

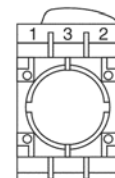
| †Cam Code | Operator Style | | | Screw Terminal Contact Block | | Quick-Connect Terminal Contact Block | |
|-----------|----------------|-------|-------|------------------------------|------------|--------------------------------------|------------|
| | Cam D | Cam Z | Cam Z | Position 1 | Position 2 | Position 1 | Position 2 |
| D | 0 | — | X | — | P9B10VN | — | P9B10FN |
| | X | — | 0 | P9B01VN | — | P9B01FN | — |
| | 0 | — | X | P9B11VN | — | — | — |
| | X | — | 0 | — | — | — | — |



Note selection and position of contact block(s) according to operator type.

3-Position

| †Cam Code | Operator Style | | | Screw Terminal Contact Block | | Quick-Connect Terminal Contact Block | |
|-----------|----------------|-------|-------|------------------------------|------------|--------------------------------------|------------|
| | Cam D | Cam Z | Cam Z | Position 1 | Position 2 | Position 1 | Position 2 |
| D | 0 | 0 | X | P9B10VN | — | P9B10FN | — |
| | X | 0 | 0 | — | P9B10VN | — | P9B10FN |
| | X | X | 0 | P9B01VN | — | P9B01FN | — |
| | 0 | X | X | — | P9B01VN | — | P9B01FN |
| Z | 0 | 0 | X | P9B10VN | — | P9B10FN | — |
| | X | X | 0 | P9B11VN | — | — | — |
| | X | 0 | 0 | — | P9B11VN | — | — |
| | 0 | X | X | — | — | — | — |



†Cam code is 6th digit of product number.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

C-2000

Section 9

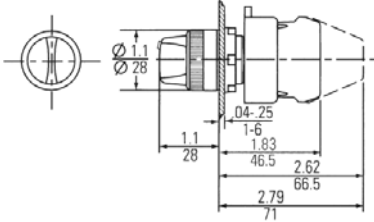
Knob Operated

Illuminated

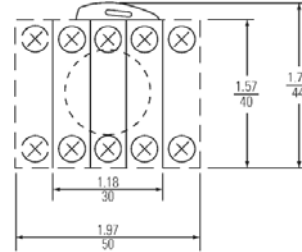
Outlines and Dimensions ($\frac{\text{in}}{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

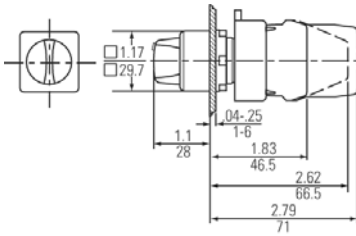
10 Amps Continuous AC, 2.5 Amps Continuous DC



Round Illuminated Knob Selector Switch



Typical Back Side View



Square Illuminated Knob Selector Switch



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights

C-2000

Standard

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select power supply from page 9-100 & 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Standard Pilot Lights

Standard Operators

| Operator Style | Lens Type | Power Supply Type | Product Number | List Price GO-10GC |
|---------------------------|------------|--------------------|-----------------------|--------------------|
| Round Polished Chrome | Diffused | — | P9CL*D | \$6.00 |
| Round Polished Chrome | Refracted | — | P9CL*R | \$6.00 |
| Round Polished Chrome | Glass lens | — | P9CL*V | \$18.50 |
| Round Polished Chrome | None | — | P9CL00 | \$5.00 |
| Round Satin Chrome | Diffused | — | P9ML*D | \$6.00 |
| Round Satin Chrome | Refracted | — | P9ML*R | \$6.00 |
| Round Satin Chrome | Glass lens | — | P9ML*V | \$18.50 |
| Round Satin Chrome | None | — | P9ML00 | \$5.00 |
| Round Engineered Plastic | Diffused | — | P9XL*D | \$6.00 |
| Round Engineered Plastic | Refracted | — | P9XL*R | \$6.00 |
| Round Engineered Plastic | None | — | P9XL00 | \$5.00 |
| Square Engineered Plastic | Diffused | — | P9SL*D | \$7.00 |
| Square Engineered Plastic | None | — | P9SL00 | \$6.00 |
| Unibloc | Diffused | Full Voltage-120 V | P9XU*DD0 ¹ | \$12.00 |
| Unibloc | Refracted | Full Voltage-120 V | P9XU*RDO ¹ | \$12.00 |
| Unibloc | Diffused | Resistor-120 V | P9XU*DRN ¹ | \$23.00 |
| Unibloc | Refracted | Resistor-120 V | P9XU*RRN ¹ | \$23.00 |
| Unibloc | None | Full Voltage-120 V | P9XU00D0 ¹ | \$11.00 |
| Unibloc | None | Resistor-120 V | P9XU00RN ¹ | \$22.00 |

¹Available only as a pilot light, Unibloc combines an indicator light and power source in one unit, producing a savings for the customer. Full-voltage versions do not include lamp; select lamp from page 9-119. Resistor versions are 130V (ac/dc) and include BA9S 130 V/2W lamp.

Replace asterisk (*) in product number with color code digit from Colors table below.

*Colors

| Color | Red | Green | Yellow | Blue | White | Orange | Clear |
|-------------|-----|-------|--------|------|-------|--------|-------|
| *Color Code | R | V | G | L | B | A | I |



Specially Marked Diffusers: See page 9-110

Outlines and Dimensions: See page 9-95
Accessories: See page 9-110 to 9-119
Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights

C-2000

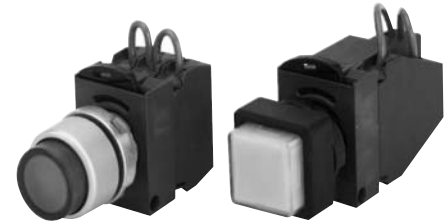
Push to Test

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

| | | | | | | | | |
|-------------------------------|---|--|---|--------------------------------------|---|--|---|---------------|
| Select assembled device below | + | Select power supply from pages 9-100 & 9-101 | + | Select contact block from page 9-101 | + | Select nameplate, if required, from pages 9-103 to 9-105 | = | Complete unit |
|-------------------------------|---|--|---|--------------------------------------|---|--|---|---------------|



Push to Test Operators

| Terminal type | Power Supply Type | Operator Style | Product Number | List Price GO-10GC |
|------------------------|-------------------|---------------------------|----------------|--------------------|
| Screw Terminal | Full Voltage | Round Polished Chrome | P9CPL*SDN12NC† | \$48.50 |
| Screw Terminal | Full Voltage | Round Satin Chrome | P9MPL*SDN12NC† | \$48.50 |
| Screw Terminal | Full Voltage | Round Engineered Plastic | P9XPL*SDN12NC† | \$48.50 |
| Screw Terminal | Full Voltage | Square Engineered Plastic | P9SPL*SDN12NC† | \$48.50 |
| Quick-Connect Terminal | Full Voltage | Round Polished Chrome | P9CPL*SDN45ND† | \$48.50 |
| Quick-Connect Terminal | Full Voltage | Round Satin Chrome | P9MPL*SDN45ND† | \$48.50 |
| Quick-Connect Terminal | Full Voltage | Round Engineered Plastic | P9XPL*SDN45ND† | \$48.50 |
| Quick-Connect Terminal | Full Voltage | Square Engineered Plastic | P9SPL*SDN45ND† | \$48.50 |
| Screw Terminal | Transformer | Round Polished Chrome | P9CPL*SDN30NH† | \$70.00 |
| Screw Terminal | Transformer | Round Satin Chrome | P9MPL*SDN30NH† | \$70.00 |
| Screw Terminal | Transformer | Round Engineered Plastic | P9XPL*SDN30NH† | \$70.00 |
| Screw Terminal | Transformer | Square Engineered Plastic | P9SPL*SDN30NH† | \$70.00 |
| Screw Terminal | Resistor | Round Polished Chrome | P9CPL*SDN30NK† | \$60.00 |
| Screw Terminal | Resistor | Round Satin Chrome | P9MPL*SDN30NK† | \$60.00 |
| Screw Terminal | Resistor | Round Engineered Plastic | P9XPL*SDN30NK† | \$60.00 |
| Screw Terminal | Resistor | Square Engineered Plastic | P9SPL*SDN30NK† | \$60.00 |

Push-to-Test Pilot Lights

Replace asterisk (*) in product number with color code digit from Colors table below.

*Colors

| Color | Red | Green | Yellow | Blue | White | Orange | Clear | No Lens ¹ |
|-------------|-----|-------|--------|------|-------|--------|-------|----------------------|
| *Color Code | R | V | G | L | B | A | I | O |

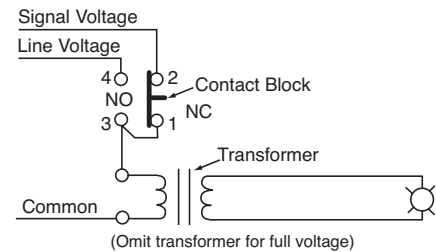
¹When ordering Push-to-Test pilot light with no lens, also change eighth digit in product number from D to O and deduct **\$1.00** from **List Price**. Color lenses and diffusers are listed separately on page 9-112.

Replace dagger (†) in product number with power supply code from corresponding section of power supplies table below.

†Power Supplies

| †Power Supply Type | Lamp | Incandescent Bulb | LED Bulb |
|-----------------------|---------------------------|--------------------|---------------------------------|
| | | †Power Supply Code | †Power Supply Code ² |
| Full Voltage (ac/dc) | 6 V | AI | AL |
| | 12 V | BI | BL |
| | 24 V | DI | DL |
| | 48 V | GI | GL |
| | 60 V | HI | — |
| | 120 V (ac only) | — | JL |
| | 130 V | LI | — |
| | 48 V | GI | GL |
| | 60 V | HI | HL |
| | 110-120 V | JI | JL |
| Transformer (ac only) | 220-250 V | NI | NL |
| | 277 V | RI | RL |
| | 380 V | UI | UL |
| | 415-440 V | WI | WL |
| | 480-500 V | YI | YL |
| | 550-600 V | ZI | ZL |
| | Standard Resistor (ac/dc) | 110-120 V | JI |
| | 220-240 V | NI | — |

²When ordering operator with LED and **\$15.00** to **List Price, GO-10GC**. Available for red, green, yellow, white and orange lenses only.



Schematic Diagram



Outlines and Dimensions: See page 9-95
 Accessories: See page 9-110 to 9-119
 Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights

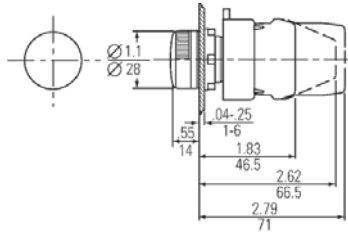
C-2000

Standard

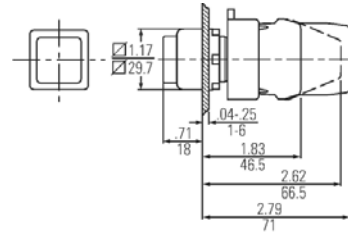
Outlines and Dimensions ($\frac{in}{mm}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

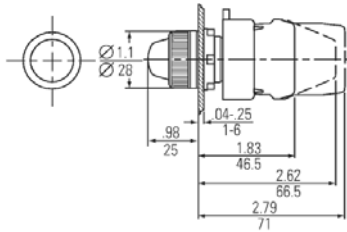
10 Amps Continuous AC, 2.5 Amps Continuous DC



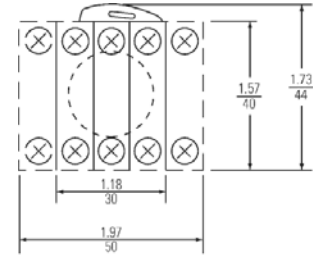
Round Indicating Light



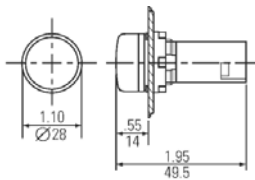
Square Indicating Light



Round Indicating Light—Glass Lens



Typical Back Side View



Round Indicating Light—Unibloc



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

C-2000

Special Operators

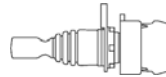
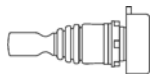
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Boot is nitrile rubber, check for application suitability. For optional silicone boot, contact factory for availability.

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



Joysticks

| Position Type | Release Type | Operator Style | Mechanical Interlock | Product Number | List Price GO-10GC |
|---------------|------------------------------|--------------------------|----------------------|----------------|--------------------|
| 3-Position | Maintained All Positions | Round Polished Chrome | No | P9CMN2F | \$85.00 |
| 3-Position | Maintained All Positions | Round Polished Chrome | Yes | P9CMB2F | \$85.00 |
| 3-Position | Maintained All Positions | Round Satin Chrome | No | P9MMN2F | \$85.00 |
| 3-Position | Maintained All Positions | Round Satin Chrome | Yes | P9MMB2F | \$85.00 |
| 3-Position | Maintained All Positions | Round Engineered Plastic | No | P9XMN2F | \$85.00 |
| 3-Position | Maintained All Positions | Round Engineered Plastic | Yes | P9XMB2F | \$85.00 |
| 3-Position | Momentary All Positions | Round Polished Chrome | No | P9CMN2T | \$85.00 |
| 3-Position | Momentary All Positions | Round Polished Chrome | Yes | P9CMB2T | \$85.00 |
| 3-Position | Momentary All Positions | Round Satin Chrome | No | P9MMN2T | \$85.00 |
| 3-Position | Momentary All Positions | Round Satin Chrome | Yes | P9MMB2T | \$85.00 |
| 3-Position | Momentary All Positions | Round Engineered Plastic | No | P9XMN2T | \$85.00 |
| 3-Position | Momentary All Positions | Round Engineered Plastic | Yes | P9XMB2T | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Polished Chrome | No | P9CMN2A | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Polished Chrome | Yes | P9CMB2A | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Satin Chrome | No | P9MMN2A | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Satin Chrome | Yes | P9MMB2A | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Engineered Plastic | No | P9XMN2A | \$85.00 |
| 3-Position | Up Momentary—Down Maintained | Round Engineered Plastic | Yes | P9XMB2A | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Polished Chrome | No | P9CMN2B | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Polished Chrome | Yes | P9CMB2B | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Satin Chrome | No | P9MMN2B | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Satin Chrome | Yes | P9MMB2B | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Engineered Plastic | No | P9XMN2B | \$85.00 |
| 3-Position | Up Maintained—Down Momentary | Round Engineered Plastic | Yes | P9XMB2B | \$85.00 |
| 5-Position | Maintained All Positions | Round Polished Chrome | No | P9CMN4F | \$115.00 |
| 5-Position | Maintained All Positions | Round Polished Chrome | Yes | P9CMB4F | \$115.00 |
| 5-Position | Maintained All Positions | Round Satin Chrome | No | P9MMN4F | \$115.00 |
| 5-Position | Maintained All Positions | Round Satin Chrome | Yes | P9MMB4F | \$115.00 |
| 5-Position | Maintained All Positions | Round Engineered Plastic | No | P9XMN4F | \$115.00 |
| 5-Position | Maintained All Positions | Round Engineered Plastic | Yes | P9XMB4F | \$115.00 |
| 5-Position | Momentary All Positions | Round Polished Chrome | No | P9CMN4T | \$115.00 |
| 5-Position | Momentary All Positions | Round Polished Chrome | Yes | P9CMB4T | \$115.00 |
| 5-Position | Momentary All Positions | Round Satin Chrome | No | P9MMN4T | \$115.00 |
| 5-Position | Momentary All Positions | Round Satin Chrome | Yes | P9MMB4T | \$115.00 |
| 5-Position | Momentary All Positions | Round Engineered Plastic | No | P9XMN4T | \$115.00 |
| 5-Position | Momentary All Positions | Round Engineered Plastic | Yes | P9XMB4T | \$115.00 |

Special Operators

Cams

Note selection and position of contact block(s) for cam.

3-Position Joystick

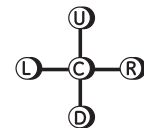
| Position | | | Screw Terminal Contact Block Product No. and Mounting Position | |
|----------|--------|------|--|------------|
| Up | Center | Down | Position 1 | Position 2 |
| X | 0 | 0 | P9B11VN | — |
| 0 | 0 | X | — | P9B11VN |
| 0 | 0 | X | — | P9B11VN |
| X | 0 | 0 | — | P9B11VN |

5-Position Joystick

| Position | | | | | Screw Terminal Contact Block Product No. and Mounting Position | |
|----------|-------|--------|------|------|--|------------|
| Up | Right | Center | Down | Left | Position 1 | Position 2 |
| 0 | X | 0 | 0 | 0 | P9B11VN | — |
| 0 | 0 | 0 | 0 | X | — | P9B11VN |
| 0 | 0 | 0 | X | 0 | — | P9B11VN |
| X | 0 | 0 | 0 | 0 | — | P9B11VN |

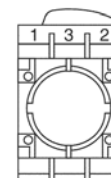


3-Position Joystick



5-Position Joystick

Operator Positions



Contact Block Positions (viewed from rear)



Outlines and Dimensions: See page 9-99

Accessories: See page 9-110 to 9-119

Technical Data: See page 9-127 to 9-133

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

C-2000

Special Operators

600 VAC Max., 300 VDC Max

10 Amps Continuous AC, 2.5 Amps Continuous DC

Selection Process

Select operator below + Select contact block(s) from page 9-101 + Select nameplate, if required, from pages 9-103 to 9-105 = Complete Unit



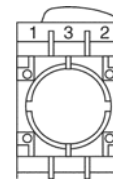
Toggle Switches

| Position Type | Release Type | Operator Style | Product Number | List Price GO-10GC |
|---------------|------------------------|---------------------------|----------------|--------------------|
| 2-Position | Maintained | Round Polished Chrome | P9CCD | \$15.50 |
| 2-Position | Maintained | Round Satin Chrome | P9MCD | \$15.50 |
| 2-Position | Maintained | Round Engineered Plastic | P9XCD | \$15.50 |
| 2-Position | Maintained | Square Engineered Plastic | P9SCD | \$15.50 |
| 3-Position | Maintained | Round Polished Chrome | P9CCB | \$15.50 |
| 3-Position | Maintained | Round Satin Chrome | P9MCB | \$15.50 |
| 3-Position | Maintained | Round Engineered Plastic | P9XCB | \$15.50 |
| 3-Position | Maintained | Square Engineered Plastic | P9SCB | \$15.50 |
| 3-Position | Spring Return From Top | Round Polished Chrome | P9CCC | \$18.50 |
| 3-Position | Spring Return From Top | Round Satin Chrome | P9MCC | \$18.50 |
| 3-Position | Spring Return From Top | Round Engineered Plastic | P9XCC | \$18.50 |
| 3-Position | Spring Return From Top | Square Engineered Plastic | P9SCC | \$18.50 |

Cams

Note selection and position of contact block(s) for cam.

| Positions | Contact Block Mounting Position | | | | | | |
|-----------|---------------------------------|--------|------|----------------|-------------|----------------------|----------------------|
| | Up | Center | Down | Screw Terminal | | Quick-Connect | |
| | | | | Product No. | Product No. | Terminal Product No. | Terminal Product No. |
| 2 | X | — | O | — | P9B10VN | — | P9B10FN |
| | O | — | X | P9B01VN | — | P9B01FN | — |
| | X | — | O | P9B11VN | — | — | — |
| | O | — | X | — | — | — | — |
| 3 | X | O | O | — | P9B10VN | — | P9B10FN |
| | O | O | X | P9B01VN | — | P9B01FN | — |
| | X | O | O | P9B11VN | — | — | — |
| | O | O | X | — | — | — | — |



Contact Block Positions (viewed from rear)

Wobble Sticks

| Operator Style | Product Number | List Price GO-10GC |
|--------------------------|----------------|--------------------|
| Round Polished Chrome | P9CWR | \$31.00 |
| Round Satin Chrome | P9MWR | \$31.00 |
| Round Engineered Plastic | P9XWR | \$31.00 |

Potentiometer Operators

| Operator Style | Product Number | List Price GO-10GC |
|---------------------------|----------------|--------------------|
| Round Polished Chrome | P9CZ | \$65.00 |
| Round Satin Chrome | P9MZ | \$65.00 |
| Round Engineered Plastic | P9XZ | \$65.00 |
| Square Engineered Plastic | P9SZ | \$65.00 |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

C-2000

Section 9

Special Operators

600 VAC Max., 300 VDC Max

10 Amps Continuous AC, 2.5 Amps Continuous DC

Buzzer (Piezoelectric Transducer)

| Operator Style | Voltage | Product Number | List Price GO-10GC |
|---------------------------|----------------|----------------|-----------------------|
| Round Engineered Plastic | 24 VAC/DC | P9XBD | \$65.00 |
| Round Engineered Plastic | 110-240 VAC/DC | P9XBM | \$65.00 |
| Square Engineered Plastic | 24 VAC/DC | P9SBD | \$65.00 |
| Square Engineered Plastic | 110-240 VAC/DC | P9SBM | \$65.00 |

Reset Push Buttons

| Operator Style | Product Number ¹ | List Price GO-10GC |
|---------------------------|-----------------------------|-----------------------|
| Round Polished Chrome | P9CRG | \$12.50 |
| Round Satin Chrome | P9MRG | \$12.50 |
| Round Engineered Plastic | P9XRG | \$12.50 |
| Square Engineered Plastic | P9SRG | \$12.50 |

¹Flush blue push buttons with white "R" provided with screw adjustable from 60 mm to 80 mm depth.

Extended Screw for all Reset Push Buttons

| Accessory Type | Product Number ² | List Price GO-10GC |
|----------------|-----------------------------|-----------------------|
| Extended Screw | P9ACVLR | \$4.50 |

²Adjustable from 80 mm to 170 mm depth.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

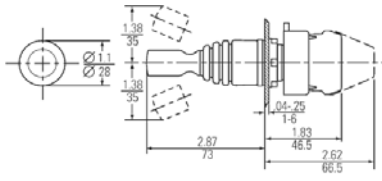
C-2000

Special Operators

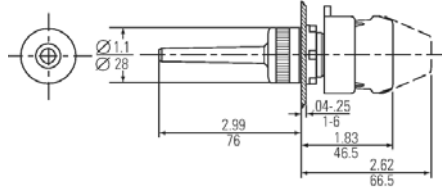
Outlines and Dimensions (in/mm) (For Estimating Only)

600 VAC Max., 300 VDC Max.

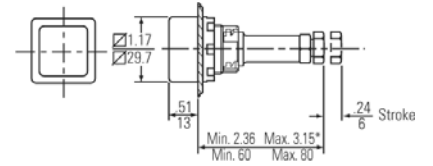
10 Amps Continuous AC, 2.5 Amps Continuous DC



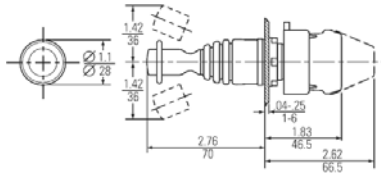
Round Joysticks



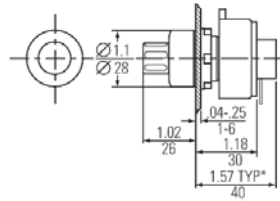
Round Wobble Stick



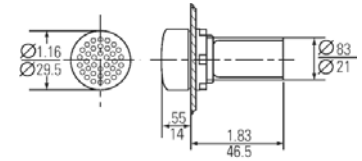
Square Reset Push Button



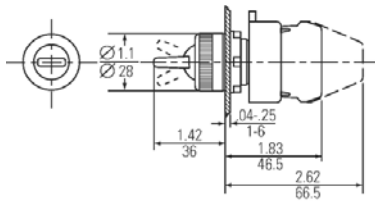
Round Joystick With Interlock



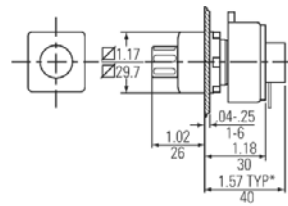
Round Potentiometer Operator



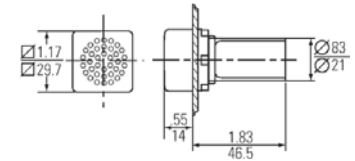
Round Buzzer



Round Toggle Switch

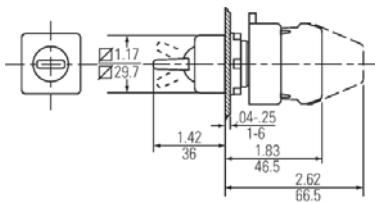


Square Potentiometer¹ Operator

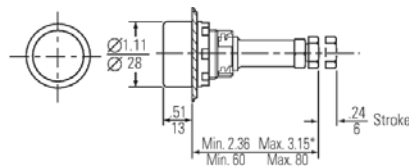


Square Buzzer

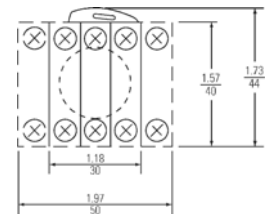
¹Potentiometer supplied by customer



Square Toggle Switch



Round Reset Push Button



Typical Back Side View



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Section 9

Power Supplies and Contact Blocks

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Full Voltage Power Supplies AC/DC

| Bulb Type | Terminal type | Lamp Operational Mode | Voltage | Product Number | List Price GO-10GC |
|----------------|------------------------|-----------------------|-------------------|-----------------------|--------------------|
| Incandescent | Screw Terminal | Steady | No lamp | P9PDNV0 | \$17.50 |
| Incandescent | Screw Terminal | Steady | 6V | P9PDNVA | \$21.00 |
| Incandescent | Screw Terminal | Steady | 12V | P9PDNVB | \$21.00 |
| Incandescent | Screw Terminal | Steady | 24V | P9PDNVD | \$21.00 |
| Incandescent | Screw Terminal | Steady | 48V | P9PDNVG | \$21.00 |
| Incandescent | Screw Terminal | Steady | 60V | P9PDNVH | \$21.00 |
| Incandescent | Screw Terminal | Steady | 130V | P9PDNVL | \$21.00 |
| Incandescent | Screw Terminal | Flashing | 24V | P9PDMVD | \$51.00 |
| Incandescent | Screw Terminal | Flashing | 120V | P9PDMVJ | \$51.00 |
| Incandescent | Screw Terminal | Panel Test | No lamp | P9PDTV0 | \$32.50 |
| Incandescent | Screw Terminal | Panel Test | 6V | P9PDTVA | \$36.00 |
| Incandescent | Screw Terminal | Panel Test | 12V | P9PDTVB | \$36.00 |
| Incandescent | Screw Terminal | Panel Test | 24V | P9PDTVD | \$36.00 |
| Incandescent | Screw Terminal | Panel Test | 48V | P9PDTVG | \$36.00 |
| Incandescent | Screw Terminal | Panel Test | 60V | P9PDTVH | \$36.00 |
| Incandescent | Screw Terminal | Panel Test | 130V | P9PDTVL | \$36.00 |
| Incandescent | Quick-Connect Terminal | Steady | No lamp | P9PDNF0 | \$17.50 |
| Incandescent | Quick-Connect Terminal | Steady | 6V | P9PDNFA | \$21.00 |
| Incandescent | Quick-Connect Terminal | Steady | 12V | P9PDNFB | \$21.00 |
| Incandescent | Quick-Connect Terminal | Steady | 24V | P9PDNFD | \$21.00 |
| Incandescent | Quick-Connect Terminal | Steady | 48V | P9PDNFG | \$21.00 |
| Incandescent | Quick-Connect Terminal | Steady | 60V | P9PDNFH | \$21.00 |
| Incandescent | Quick-Connect Terminal | Steady | 130V | P9PDNFL | \$21.00 |
| LED | Screw Terminal | Steady | 6V | P9PDNVL* | \$36.00 |
| LED | Screw Terminal | Steady | 12V | P9PDNVBL* | \$36.00 |
| LED | Screw Terminal | Steady | 24V | P9PDNVDL* | \$36.00 |
| LED | Screw Terminal | Steady | 48V | P9PDNVGL* | \$36.00 |
| LED | Screw Terminal | Steady | 120V ² | P9PDNVJL* | \$36.00 |
| LED | Screw Terminal | Flashing | 24V | P9PDMVDL* | \$66.00 |
| LED | Screw Terminal | Flashing | 120V ² | P9PDMVJL* | \$66.00 |
| LED | Screw Terminal | Panel Test | 6V | P9PDTVAL* | \$51.00 |
| LED | Screw Terminal | Panel Test | 12V | P9PDTVBL* | \$51.00 |
| LED | Screw Terminal | Panel Test | 24V | P9PDTVDL* | \$51.00 |
| LED | Screw Terminal | Panel Test | 48V | P9PDTVGL* | \$51.00 |
| LED | Screw Terminal | Panel Test | 120V ² | P9PDTVJL* | \$43.50 |
| LED | Quick-Connect Terminal | Steady | 6V | P9PDNFAL* | \$36.00 |
| LED | Quick-Connect Terminal | Steady | 12V | P9PDNFBL* | \$36.00 |
| LED | Quick-Connect Terminal | Steady | 24V | P9PDNFDL* | \$36.00 |
| LED | Quick-Connect Terminal | Steady | 48V | P9PDNFGL* | \$36.00 |
| LED | Quick-Connect Terminal | Steady | 120V ² | P9PDNFJL* | \$36.00 |
| Neon | Screw Terminal | Steady | 110V | P9PDNVIN ¹ | \$25.00 |
| Neon | Screw Terminal | Steady | 220V | P9PDNVMN ¹ | \$25.00 |
| Neon | Screw Terminal | Panel Test | 110V | P9PDTVIN ¹ | \$40.00 |
| Neon | Screw Terminal | Panel Test | 220V | P9PDTVMN ¹ | \$40.00 |
| Neon | Quick-Connect Terminal | Steady | 110V | P9PDNFIN ¹ | \$25.00 |
| Neon | Quick-Connect Terminal | Steady | 220V | P9PDNFMN ¹ | \$25.00 |
| Integrated LED | Screw Terminal | Steady | 24 VAC/DC | P9PLNVD* | \$31.00 |
| Integrated LED | Screw Terminal | Steady | 120V | P9PLNVJ* | \$31.00 |
| Integrated LED | Screw Terminal | Steady | 230V | P9PLNVN* | \$31.00 |
| Integrated LED | Screw Terminal | Flashing | 24 VAC/DC | P9PLFVD* | \$56.50 |
| Integrated LED | Screw Terminal | Flashing | 120V | P9PLFVJ* | \$56.50 |
| Integrated LED | Screw Terminal | Flashing | 230V | P9PLFVN* | \$56.50 |

¹Neon bulbs are recommended for use only with clear, red, and yellow lenses.

²AC only

Transformer Power Supplies 50/60 Hz AC

| Bulb Type | Terminal type | Lamp Operational Mode | Voltage | Product Number | List Price GO-10GC |
|--------------|----------------|-----------------------|----------|----------------|--------------------|
| Incandescent | Screw Terminal | Steady | 48V | P9PTNVG | \$42.50 |
| Incandescent | Screw Terminal | Steady | 60V | P9PTNVH | \$42.50 |
| Incandescent | Screw Terminal | Steady | 110-120V | P9PTNVJ | \$42.50 |
| Incandescent | Screw Terminal | Steady | 220-250V | P9PTNVN | \$42.50 |
| Incandescent | Screw Terminal | Steady | 277-280V | P9PTNVR | \$42.50 |
| Incandescent | Screw Terminal | Steady | 380V | P9PTNVU | \$42.50 |
| Incandescent | Screw Terminal | Steady | 415-440V | P9PTNVW | \$42.50 |
| Incandescent | Screw Terminal | Steady | 480-500V | P9PTNVY | \$42.50 |
| Incandescent | Screw Terminal | Steady | 550-600V | P9PTNVZ | \$42.50 |
| Incandescent | Screw Terminal | Flashing | 48V | P9PTMVG | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 60V | P9PTMVH | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 110-120V | P9PTMVJ | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 220-250V | P9PTMVN | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 277-280V | P9PTMVR | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 380V | P9PTMVU | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 415-440V | P9PTMVW | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 480-500V | P9PTMVY | \$72.50 |
| Incandescent | Screw Terminal | Flashing | 550-600V | P9PTMVZ | \$72.50 |
| LED | Screw Terminal | Steady | 48V | P9PTNVGL* | \$57.50 |
| LED | Screw Terminal | Steady | 60V | P9PTNVHL* | \$57.50 |
| LED | Screw Terminal | Steady | 110-120V | P9PTNVJL* | \$57.50 |
| LED | Screw Terminal | Steady | 220-250V | P9PTNVNL* | \$57.50 |
| LED | Screw Terminal | Steady | 277-280V | P9PTNVRL* | \$57.50 |
| LED | Screw Terminal | Steady | 380V | P9PTNVUL* | \$57.50 |
| LED | Screw Terminal | Steady | 415-440V | P9PTNVWL* | \$57.50 |
| LED | Screw Terminal | Steady | 480-500V | P9PTNVYL* | \$57.50 |
| LED | Screw Terminal | Steady | 550-600V | P9PTNVZL* | \$57.50 |
| LED | Screw Terminal | Flashing | 48V | P9PTMVGJL* | \$87.50 |
| LED | Screw Terminal | Flashing | 60V | P9PTMVHL* | \$87.50 |
| LED | Screw Terminal | Flashing | 110-112V | P9PTMVJL* | \$87.50 |
| LED | Screw Terminal | Flashing | 220-250V | P9PTMVNL* | \$87.50 |
| LED | Screw Terminal | Flashing | 277-280V | P9PTMVRJL* | \$87.50 |
| LED | Screw Terminal | Flashing | 380V | P9PTMVUL* | \$87.50 |
| LED | Screw Terminal | Flashing | 415-440V | P9PTMVWL* | \$87.50 |
| LED | Screw Terminal | Flashing | 480-500V | P9PTMVYL* | \$87.50 |
| LED | Screw Terminal | Flashing | 550-600V | P9PTMVZL* | \$87.50 |

Complete product number by inserting color code digit in place of asterisk (*).

*LED Colors

| LED Color | Red | Green | Yellow | Orange | Blue | White |
|------------|-----|-------|--------|--------|------|-------|
| Color Code | R | V | G | A | L | B |



Outlines and Dimensions: See page 9-102

Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Power Supplies and Contact Blocks

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Resistor Power Supplies AC/DC

| Bulb Type | Terminal type | Lamp Operational Mode | Voltage | Product Number | List Price GO-10GC |
|--------------|----------------|-----------------------|----------|----------------|--------------------|
| Incandescent | Screw Terminal | Steady | 110-120V | P9PRNVJ | \$35.00 |
| Incandescent | Screw Terminal | Steady | 220-240V | P9PRNVN | \$35.00 |
| Incandescent | Screw Terminal | Steady with Diode | 220-240V | P9PRDVN | \$35.00 |
| Incandescent | Screw Terminal | Steady Long Life | 110-120V | P9PRLVJ | \$35.00 |
| Incandescent | Screw Terminal | Panel Test | 220-240V | P9PRTVN | \$50.00 |

Full-Voltage Power Supplies Low-Level Energy (Reed)

| Bulb Type | Terminal type | Lamp Operational Mode | Voltage | Product Number | List Price GO-10GC |
|--------------|------------------------|-----------------------|---------|---------------------|--------------------|
| Incandescent | Quick-Connect Terminal | Steady | - | P9PDHF ¹ | \$17.50 |

¹For use with Reed Logic flange only.

Contact Blocks

| Terminal type | Contact Block Type | Contact Configuration | Product Number | List Price GO-10GC |
|------------------------|------------------------|-----------------------|----------------------|--------------------|
| Screw Terminal | Standard | 1NO | P9B10VN | \$7.50 |
| Screw Terminal | Standard | 1NC | P9B01VN | \$7.50 |
| Screw Terminal | Standard | 1NO-1NC | P9B11VN | \$15.00 |
| Screw Terminal | Standard | 2NO | P9B20VN | \$15.00 |
| Screw Terminal | Standard | 2NC | P9B02VN | \$15.00 |
| Screw Terminal | Early Make | 1NO | P9B10VA | \$7.50 |
| Screw Terminal | Late Opening | 1NC | P9B01VR | \$7.50 |
| Screw Terminal | Base Mount | 1NO | P9B10BN | \$7.50 |
| Screw Terminal | Base Mount | 1NC | P9B01BN | \$7.50 |
| Screw Terminal | 0.1-30 sec. Time-Delay | 1NO-1NC | P9B11T3 | \$75.00 |
| Screw Terminal | 10-180 sec. Time-Delay | 1NO-1NC | P9B11T8 | \$75.00 |
| Quick-Connect Terminal | Standard | 1NO | P9B10FN | \$7.50 |
| Quick-Connect Terminal | Standard | 1NC | P9B01FN | \$7.50 |
| Quick-Connect Terminal | Reed | 1NO | P9B10FH ² | \$18.00 |
| Quick-Connect Terminal | Reed | 1NC | P9B01FH ² | \$18.00 |

²Requires special flange (P9ACFSM).

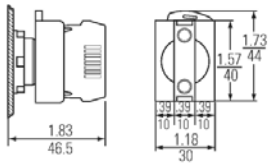
Order on page 9-118.



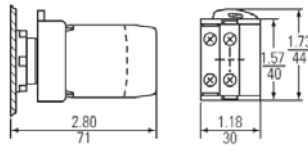
Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators C-2000

Section 9

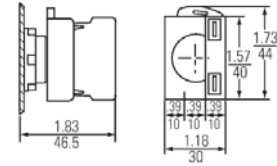
Power Supplies and Contact Blocks
 Outlines and Dimensions (in mm) (For Estimating Only)
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC



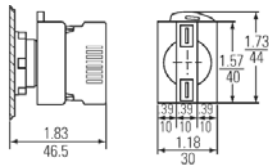
Full-Voltage, Long-Life, & Resistor & Diode Power Supplies with Screw Terminals



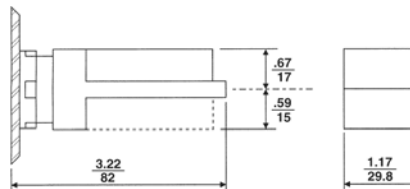
Full-Voltage & Transformer Continuous or Flashing Power Supplies with Screw Terminals



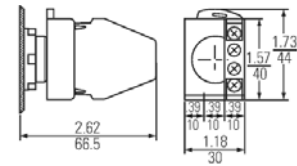
Single Contact Blocks with Quick-Connect Terminals



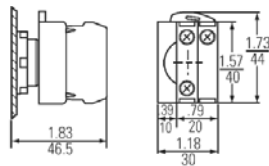
Full-Voltage Power Supply with Quick-Connect Terminals



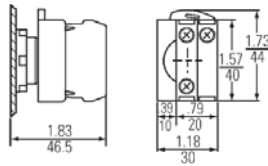
Quick-Connect—Logic reed switch—Contact Block Quick-Connect—Logic Power Supplies



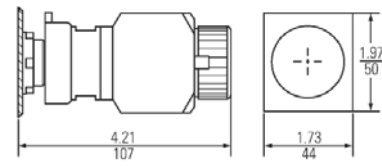
Double Contact Blocks with Screw Terminals



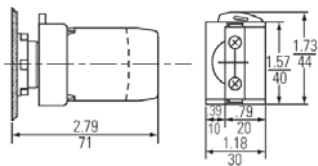
Resistor, Full-Voltage Test and Resistor Test Power Supplies with Screw Terminals



Single Contact Blocks with Screw Terminals



Time-Delay Contact Blocks with Screw Terminals



Transformer Power Supply with Screw Terminals



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Nameplates

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Standard Metal

| Nameplate Marking | Product Number | List Price GO-10GC |
|------------------------------------|----------------|-----------------------|
| Auto | P9ACP2N219 | \$1.80 |
| Auto Cut | P9ACP2N272 | \$1.80 |
| Auto Return | P9ACP2N273 | \$1.80 |
| CLOSE | P9ACP2N205 | \$1.80 |
| Control Off | P9ACP2N262 | \$1.80 |
| Control On | P9ACP2N286 | \$1.80 |
| Cycle On | P9ACP2N266 | \$1.80 |
| DECREASE | P9ACP2N274 | \$1.80 |
| DOWN | P9ACP2N203 | \$1.80 |
| EMERGENCY STOP (Red) | P9ACP2R229 | \$1.80 |
| Emergency Stop Pull to Reset (RED) | P9ACP2R230 | \$1.80 |
| FAST | P9ACP2N208 | \$1.80 |
| Fault | P9ACP2N218 | \$1.80 |
| FORWARD | P9ACP2N214 | \$1.80 |
| Hand | P9ACP2N220 | \$1.80 |
| HIGH | P9ACP2N221 | \$1.80 |
| IN | P9ACP2N275 | \$1.80 |
| INCH | P9ACP2N209 | \$1.80 |
| INCREASE | P9ACP2N278 | \$1.80 |
| JOG | P9ACP2N210 | \$1.80 |
| LEFT | P9ACP2N222 | \$1.80 |
| LOW | P9ACP2N223 | \$1.80 |
| LOWER | P9ACP2N217 | \$1.80 |
| Off (Red) | P9ACP2R213 | \$1.80 |
| ON | P9ACP2N212 | \$1.80 |
| OPEN | P9ACP2N206 | \$1.80 |
| OUT | P9ACP2N293 | \$1.80 |
| Overload Tripped | P9ACP2N226 | \$1.80 |
| POWER ON | P9ACP2N240 | \$1.80 |
| Push-to-Stop/Pull-to-Start | P9ACP2N241 | \$1.80 |
| RAISE | P9ACP2N216 | \$1.80 |
| RESET | P9ACP2N291 | \$1.80 |
| RETURN | P9ACP2N242 | \$1.80 |
| REVERSE | P9ACP2N215 | \$1.80 |
| RIGHT | P9ACP2N224 | \$1.80 |
| RUN | P9ACP2N211 | \$1.80 |
| Safe | P9ACP2N281 | \$1.80 |
| SLOW | P9ACP2N207 | \$1.80 |
| Spindle Closed | P9ACP2N294 | \$1.80 |
| Spindle Open | P9ACP2N295 | \$1.80 |
| START | P9ACP2N202 | \$1.80 |
| STOP (Red) | P9ACP2R201 | \$1.80 |
| Stop Rotate-to-Reset | P9ACP2N228 | \$1.80 |
| Sub SPD Closed | P9ACP2N296 | \$1.80 |
| Sub SPD Open | P9ACP2N297 | \$1.80 |
| TEST | P9ACP2N225 | \$1.80 |
| UP | P9ACP2N204 | \$1.80 |
| Feed Hold | P9ACP2N263 | \$1.80 |
| FOR REV | P9ACP2N231 | \$1.80 |
| HAND AUTO | P9ACP2N243 | \$1.80 |
| HIGH LOW | P9ACP2N244 | \$1.80 |
| H.P. Coolant | P9ACP2N290 | \$1.80 |
| Inch Cut | P9ACP2N276 | \$1.80 |
| Inch Return | P9ACP2N277 | \$1.80 |
| JOG FORWARD | P9ACP2N279 | \$1.80 |
| JOG REVERSE | P9ACP2N280 | \$1.80 |
| JOG RUN | P9ACP2N245 | \$1.80 |
| LEFT RIGHT | P9ACP2N246 | \$1.80 |
| LOW HIGH | P9ACP2N247 | \$1.80 |
| LOWER RAISE | P9ACP2N248 | \$1.80 |
| OFF ON | P9ACP2N233 | \$1.80 |
| OPEN CLOSE | P9ACP2N234 | \$1.80 |
| RAISE LOWER | P9ACP2N249 | \$1.80 |
| REV FOR | P9ACP2N250 | \$1.80 |
| RUN JOG | P9ACP2N251 | \$1.80 |
| SAFE RUN | P9ACP2N252 | \$1.80 |
| SLOW FAST | P9ACP2N253 | \$1.80 |
| START CYCLE | P9ACP2N282 | \$1.80 |
| Start Feed | P9ACP2N283 | \$1.80 |
| START JOG | P9ACP2N254 | \$1.80 |

Standard Metal (continued)

| Nameplate Marking | Product Number | List Price GO-10GC |
|-------------------|----------------|-----------------------|
| START STOP | P9ACP2N255 | \$1.80 |
| Stop Cycle | P9ACP2N265 | \$1.80 |
| Stop Feed | P9ACP2N264 | \$1.80 |
| Stop Reset (Red) | P9ACP2R227 | \$1.80 |
| STOP START | P9ACP2N232 | \$1.80 |
| UP DOWN | P9ACP2N256 | \$1.80 |
| OFF COOLANT ON | P9ACP2N257 | \$1.80 |
| Auto Off Hand | P9ACP2N258 | \$1.80 |
| FOR OFF REV | P9ACP2N239 | \$1.80 |
| FOR STOP REV | P9ACP2N259 | \$1.80 |
| HAND OFF AUTO | P9ACP2N261 | \$1.80 |
| JOG OFF RUN | P9ACP2N298 | \$1.80 |
| JOG SAFE RUN | P9ACP2N267 | \$1.80 |
| Local Off Remote | P9ACP2N237 | \$1.80 |
| LOW OFF HIGH | P9ACP2N238 | \$1.80 |
| LOWER OFF RAISE | P9ACP2N268 | \$1.80 |
| MAN OFF AUTO | P9ACP2N269 | \$1.80 |
| OPEN OFF CLOSE | P9ACP2N270 | \$1.80 |
| SLOW OFF FAST | P9ACP2N271 | \$1.80 |

Plastic Insert

| Nameplate Marking | Product Number ¹ | List Price GO-10GC |
|------------------------------------|-----------------------------|-----------------------|
| Auto | P9ACPBS219 | \$0.50 |
| Auto Cut | P9ACPBS272 | \$0.50 |
| Auto Return | P9ACPBS273 | \$0.50 |
| CLOSE | P9ACPBS205 | \$0.50 |
| Control Off | P9ACPBS262 | \$0.50 |
| Control On | P9ACPBS286 | \$0.50 |
| Cycle On | P9ACPBS266 | \$0.50 |
| DECREASE | P9ACPBS274 | \$0.50 |
| DOWN | P9ACPBS203 | \$0.50 |
| EMERGENCY STOP (Red) | P9ACPBS229 | \$0.50 |
| Emergency Stop Pull to Reset (RED) | P9ACPBS230 | \$0.50 |
| FAST | P9ACPBS208 | \$0.50 |
| Fault | P9ACPBS218 | \$0.50 |
| FORWARD | P9ACPBS214 | \$0.50 |
| Hand | P9ACPBS220 | \$0.50 |
| HIGH | P9ACPBS221 | \$0.50 |
| IN | P9ACPBS275 | \$0.50 |
| INCH | P9ACPBS209 | \$0.50 |
| INCREASE | P9ACPBS278 | \$0.50 |
| JOG | P9ACPBS210 | \$0.50 |
| LEFT | P9ACPBS222 | \$0.50 |
| LOW | P9ACPBS223 | \$0.50 |
| LOWER | P9ACPBS217 | \$0.50 |
| Off (Red) | P9ACPBS213 | \$0.50 |
| ON | P9ACPBS212 | \$0.50 |
| OPEN | P9ACPBS206 | \$0.50 |
| OUT | P9ACPBS293 | \$0.50 |
| Overload Tripped | P9ACPBS226 | \$0.50 |
| POWER ON | P9ACPBS240 | \$0.50 |
| Push-to-Stop/Pull-to-Start | P9ACPBS241 | \$0.50 |
| RAISE | P9ACPBS216 | \$0.50 |
| RESET | P9ACPBS291 | \$0.50 |
| RETURN | P9ACPBS242 | \$0.50 |
| REVERSE | P9ACPBS215 | \$0.50 |
| RIGHT | P9ACPBS224 | \$0.50 |
| RUN | P9ACPBS211 | \$0.50 |
| Safe | P9ACPBS281 | \$0.50 |
| SLOW | P9ACPBS207 | \$0.50 |
| Spindle Closed | P9ACPBS294 | \$0.50 |
| Spindle Open | P9ACPBS295 | \$0.50 |
| START | P9ACPBS202 | \$0.50 |
| STOP (Red) | P9ACPBS201 | \$0.50 |
| Stop Rotate-to-Reset | P9ACPBS228 | \$0.50 |
| Sub SPD Closed | P9ACPBS296 | \$0.50 |
| Sub SPD Open | P9ACPBS297 | \$0.50 |
| TEST | P9ACPBS225 | \$0.50 |

¹For use with plastic nameplate holders on page 9-104.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Section 9

Nameplates

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Plastic Insert (continued)

| Nameplate Marking | Product Number ¹ | List Price GO-10GC |
|-------------------|-----------------------------|-----------------------|
| UP | P9ACPBS204 | \$.50 |
| Feed Hold | P9ACPBS263 | \$.50 |
| FOR REV | P9ACPBS231 | \$.50 |
| HAND AUTO | P9ACPBS243 | \$.50 |
| HIGH LOW | P9ACPBS244 | \$.50 |
| H.P. Coolant | P9ACPBS290 | \$.50 |
| Inch Cut | P9ACPBS276 | \$.50 |
| Inch Return | P9ACPBS277 | \$.50 |
| JOG FORWARD | P9ACPBS279 | \$.50 |
| JOG REVERSE | P9ACPBS280 | \$.50 |
| JOG RUN | P9ACPBS245 | \$.50 |
| LEFT RIGHT | P9ACPBS246 | \$.50 |
| LOW HIGH | P9ACPBS247 | \$.50 |
| LOWER RAISE | P9ACPBS248 | \$.50 |
| OFF ON | P9ACPBS233 | \$.50 |
| OPEN CLOSE | P9ACPBS234 | \$.50 |
| RAISE LOWER | P9ACPBS249 | \$.50 |
| REV FOR | P9ACPBS250 | \$.50 |
| RUN JOG | P9ACPBS251 | \$.50 |
| SAFE RUN | P9ACPBS252 | \$.50 |
| SLOW FAST | P9ACPBS253 | \$.50 |
| START CYCLE | P9ACPBS282 | \$.50 |
| Start Feed | P9ACPBS283 | \$.50 |
| START JOG | P9ACPBS254 | \$.50 |
| START STOP | P9ACPBS255 | \$.50 |
| Stop Cycle | P9ACPBS265 | \$.50 |
| Stop Feed | P9ACPBS264 | \$.50 |
| Stop Reset (Red) | P9ACPBS227 | \$.50 |
| STOP START | P9ACPBS232 | \$.50 |
| UP DOWN | P9ACPBS256 | \$.50 |
| OFF COOLANT ON | P9ACPBS257 | \$.50 |
| Auto Off Hand | P9ACPBS258 | \$.50 |
| FOR OFF REV | P9ACPBS239 | \$.50 |
| FOR STOP REV | P9ACPBS259 | \$.50 |
| HAND OFF AUTO | P9ACPBS261 | \$.50 |
| JOG OFF RUN | P9ACPBS298 | \$.50 |
| JOG SAFE RUN | P9ACPBS267 | \$.50 |
| Local Off Remote | P9ACPBS237 | \$.50 |
| LOW OFF HIGH | P9ACPBS238 | \$.50 |
| LOWER OFF RAISE | P9ACPBS268 | \$.50 |
| MAN OFF AUTO | P9ACPBS269 | \$.50 |
| OPEN OFF CLOSE | P9ACPBS270 | \$.50 |
| SLOW OFF FAST | P9ACPBS271 | \$.50 |

¹For use with plastic nameplate holders.

Plastic Insert

| Nameplate Marking | Product Number ¹ | List Price GO-10GC |
|-------------------|-----------------------------|-----------------------|
| Abrir | P9ACPBS506 | \$.50 |
| Adelente | P9ACPBS502 | \$.50 |
| Atras | P9ACPBS508 | \$.50 |
| Atras Adelante | P9ACPBS518 | \$.50 |
| Atras O Adelante | P9ACPBS519 | \$.50 |
| Bajar | P9ACPBS505 | \$.50 |
| Bajo | P9ACPBS514 | \$.50 |
| Cerrar | P9ACPBS501 | \$.50 |
| Defecto | P9ACPBS513 | \$.50 |
| Derecha | P9ACPBS509 | \$.50 |
| Emergencia | P9ACPBS516 | \$.50 |
| Izquierda | P9ACPBS504 | \$.50 |
| Manual | P9ACPBS503 | \$.50 |
| Marcha | P9ACPBS510 | \$.50 |
| Paro (Red) | P9ACPBS511 | \$.50 |
| Paro Marcha | P9ACPBS517 | \$.50 |
| Paro O Marcha | P9ACPBS520 | \$.50 |
| Rapido | P9ACPBS512 | \$.50 |
| Reame | P9ACPBS515 | \$.50 |
| Subir | P9ACPBS507 | \$.50 |

¹For use with plastic nameplate holders.

Plastic Nameplates with Blank Inserts

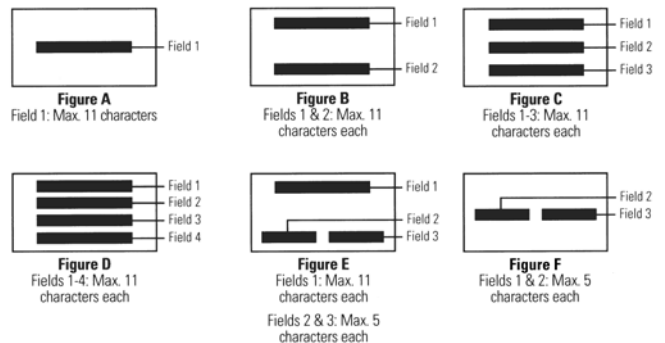
| Nameplate Type | Operator Style | Nameplate Size | Product Number ² | List Price GO-10GC |
|--------------------------|---------------------------|----------------|-----------------------------|-----------------------|
| Plastic w/ Blank Inserts | Round Polished Chrome | Standard | P9ARTBS | \$1.00 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |
| Plastic w/ Blank Inserts | Round Polished Chrome | Jumbo | P9ARTBM | \$1.50 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |
| Plastic w/ Blank Inserts | Square Engineered Plastic | Standard | P9ASTBS | \$2.00 ea. |
| | Spare Blank Insert | | | |
| Spare Blank Insert | Round Polished Chrome | Standard | P9ACPBS | \$.50 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |
| Spare Blank Insert | Round Polished Chrome | Jumbo | P9ARPBM | \$.50 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |
| Transparent Insert | Round Polished Chrome | Standard | P9ACPTS | \$.50 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |
| Transparent Insert | Round Polished Chrome | Jumbo | P9ARPTM | \$.50 ea. |
| | Round Satin Chrome | | | |
| | Round Engineered Plastic | | | |

²Package quantity is five, order in multiples of 5. Includes black holder with black/red reversible insert.

Plastic Nameplate Holders With Custom Engraved Inserts

| Operator Style | Nameplate Size | Product Number | List Price GO-10GC |
|---------------------------|----------------|----------------|-----------------------|
| Round Polished Chrome | Standard | P9ARTBSEN | \$8.00 |
| Round Satin Chrome | | | |
| Round Engineered Plastic | | | |
| Round Polished Chrome | Jumbo | P9ARTBMEN | \$8.00 |
| Round Satin Chrome | | | |
| Round Engineered Plastic | | | |
| Square Engineered Plastic | Standard | P9ASTBSEN | \$8.00 |

For custom engraved engineered plastic nameplates, specify Figure corresponding to desired field configuration, characters desired for each field, and color (black or red) of field.



Legend for Custom Engraved Inserts

Blank Metal

| Nameplate Size | Color | Product Number | List Price GO-10GC |
|----------------|-------|----------------|-----------------------|
| Standard | Black | P9ACP2N | \$1.80 |
| Standard | Red | P9ACP2R | \$1.80 |
| Joystick | Black | P9ACP3N | \$1.80 |
| Joystick | Red | P9ACP3R | \$1.80 |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Nameplates

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Custom Engraved Metal

| Color | Figure | Nameplate Size | Max. Characters per Field | Product Number | List Price GO-10GC |
|-------|--------|----------------|--|----------------|--------------------|
| Black | 1 | Standard | Field 1: 13 | P9ACP2NBEN | \$8.00 |
| Black | 2 | Standard | Fields 1 & 2: 13 each | P9ACP2NCEN | \$8.00 |
| Black | 3 | Standard | Fields 1 & 2: 6 each | P9ACP2NFEN | \$8.00 |
| Black | 4 | Standard | Fields 1 & 3: 6 each, Fields 2: 13 | P9ACP2NGEN | \$8.00 |
| Black | 5 | Standard | Fields 1-4: 13 each | P9ACP2NHEN | \$8.00 |
| Black | 7 | Joystick | Fields 1 & 2: 17 each | P9ACP3NJEN | \$8.00 |
| Black | 8 | Joystick | Fields 1 & 2: 17 each; Fields 3 & 4: 4 each | P9ACP3NKEN | \$8.00 |
| Red | 1 | Standard | Field 1: 13 | P9ACP2RBEN | \$8.00 |
| Red | 2 | Standard | Fields 1 & 2: 13 each | P9ACP2RCEN | \$8.00 |
| Red | 3 | Standard | Fields 1 & 2: 6 each | P9ACP2RFEN | \$8.00 |
| Red | 4 | Standard | Fields 1 & 3: 6 each, Fields 2: 13 | P9ACP2RGEN | \$8.00 |
| Red | 5 | Standard | Fields 1-4: 13 each | P9ACP2RHEN | \$8.00 |
| Red | 7 | Joystick | Fields 1 & 2: 17 each | P9ACP3RJEN | \$8.00 |
| Red | 8 | Joystick | Fields 1 & 2: 17 each; Fields 3 & 4: 4 each | P9ACP3RKEN | \$8.00 |

For custom engraved metal nameplates, specify Figure corresponding to desired field configuration and characters desired for each field.

Yellow Emergency Round

| Nameplate Marking | Nameplate Diameter | Product Number ¹ | List Price GO-10GC |
|-------------------|--------------------|-----------------------------|--------------------|
| Blank | 59 mm | 080XTGR | \$2.00 |
| Blank | 78 mm | 080XTG8 | \$2.00 |
| Engraved | 59 mm | 080XTGR02 | \$2.00 |
| EMERGENCY STOP | 78 mm | 080XTG802 | \$2.00 |

¹Package quantity is five, order in multiples of 5.

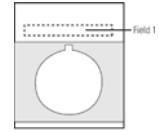


Figure 1

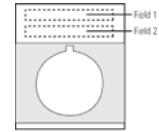


Figure 2

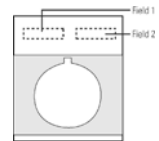


Figure 3

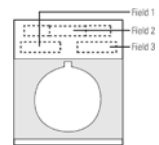


Figure 4

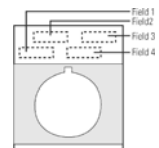


Figure 5

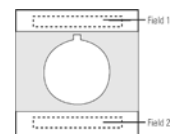


Figure 7

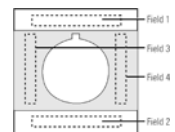


Figure 8



Blank and Yellow Emergency Stop



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

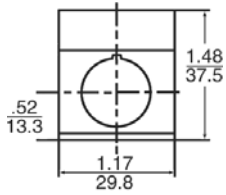
Section 9

Nameplates

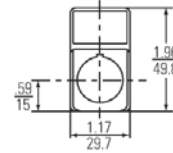
Outlines and Dimensions ($\frac{\text{in.}}{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

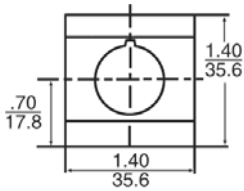
10 Amps Continuous AC, 2.5 Amps Continuous DC



Standard Metal Nameplate



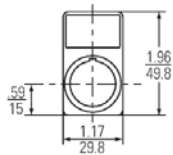
Square Standard Plate Holder



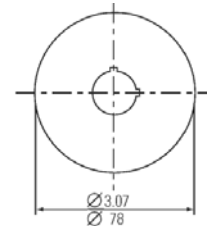
Metal Joystick Nameplate



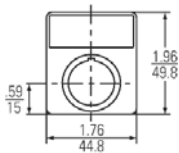
Round Yellow Nameplate (59 mm)



Round Standard Plate Holder



Round Yellow Nameplate (78 mm)



Round Large Plate Holder



Pilot and Signaling Devices





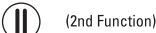




Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Specially Marked Push Button Caps
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Specially Marked Push Button Caps

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

| Marking Description | Color | Special Function Type | Operator Style | Product Number | List Price GO-10GC | |
|---------------------------------------|-------|-----------------------|----------------|-------------------------|-----------------------|---|
| Stop (text) | Red | Flush, Recessed | Round | P9ARBGR201 ¹ | \$3.50 | |
| Stop (text) | Red | Extended | Round | P9ARBSR201 | \$3.50 | |
| Stop (text) | Red | Flush | Square | P9ASBGR201 | \$3.50 |  |
| Stop (text) | Red | Extended | Square | P9ASBSR201 | \$3.50 | |
| Start (text) | Black | Flush, Recessed | Round | P9ARBGN202 ¹ | \$3.50 | |
| Start (text) | Black | Extended | Round | P9ARBSN202 | \$3.50 | |
| Start (text) | Black | Flush | Square | P9ASBGN202 | \$3.50 |  |
| Start (text) | Black | Extended | Square | P9ASBSN202 | \$3.50 | |
| Start (text) | Green | Flush, Recessed | Round | P9ARBGV202 ¹ | \$3.50 | |
| Start (text) | Green | Extended | Round | P9ARBSV202 | \$3.50 | |
| Start (text) | Green | Flush | Square | P9ASBGV202 | \$3.50 | |
| Start (text) | Green | Extended | Square | P9ASBSV202 | \$3.50 | |
| Stop (O) | Red | Flush, Recessed | Round | P9ARBGRO29 ¹ | \$3.50 | |
| Stop (O) | Red | Extended | Round | P9ARBSRO29 | \$3.50 |  |
| Stop (O) | Red | Flush | Square | P9ASBGR029 | \$3.50 | |
| Stop (O) | Red | Extended | Square | P9ASBSR029 | \$3.50 | |
| Start (I) | Black | Flush, Recessed | Round | P9ARBGN028 ¹ | \$3.50 | |
| Start (I) | Black | Extended | Round | P9ARBSN028 | \$3.50 | |
| Start (I) | Black | Flush | Square | P9ASBGN028 | \$3.50 |  |
| Start (I) | Black | Extended | Square | P9ASBSN028 | \$3.50 | |
| Start (I) | Green | Flush, Recessed | Round | P9ARBGV028 ¹ | \$3.50 | |
| Start (I) | Green | Extended | Round | P9ARBSV028 | \$3.50 | |
| Start (I) | Green | Flush | Square | P9ASBGV028 | \$3.50 | |
| Start (I) | Green | Extended | Square | P9ASBSV028 | \$3.50 | |
| 2nd Function | Black | Flush, Recessed | Round | P9ARBGN035 ¹ | \$3.50 | |
| 2nd Function | Black | Extended | Round | P9ARBSN035 | \$3.50 | |
| 2nd Function | Black | Flush | Square | P9ASBGN035 | \$3.50 |  |
| 2nd Function | Black | Extended | Square | P9ASBSN035 | \$3.50 | |
| 2nd Function | Green | Flush, Recessed | Round | P9ARBGV035 ¹ | \$3.50 | |
| 2nd Function | Green | Extended | Round | P9ARBSV035 | \$3.50 | |
| 2nd Function | Green | Flush | Square | P9ASBGV035 | \$3.50 | |
| 2nd Function | Green | Extended | Square | P9ASBSV035 | \$3.50 | |
| 3rd Function | Black | Flush, Recessed | Round | P9ARBGN038 ¹ | \$3.50 | |
| 3rd Function | Black | Extended | Round | P9ARBSN038 | \$3.50 | |
| 3rd Function | Black | Flush | Square | P9ASBGN038 | \$3.50 |  |
| 3rd Function | Black | Extended | Square | P9ASBSN038 | \$3.50 | |
| 3rd Function | Green | Flush, Recessed | Round | P9ARBGV038 ¹ | \$3.50 | |
| 3rd Function | Green | Extended | Round | P9ARBSV038 | \$3.50 | |
| 3rd Function | Green | Flush | Square | P9ASBGV038 | \$3.50 | |
| 3rd Function | Green | Extended | Square | P9ASBSV038 | \$3.50 | |
| Continuous Linear Movement | Black | Flush, Recessed | Round | P9ARBGN006 ¹ | \$3.50 | |
| Continuous Linear Movement | Black | Extended | Round | P9ARBSN006 | \$3.50 | |
| Continuous Linear Movement | Black | Flush | Square | P9ASBGN006 | \$3.50 |  |
| Continuous Linear Movement | Black | Extended | Square | P9ASBSN006 | \$3.50 | |
| Continuous Linear Movement | Green | Flush, Recessed | Round | P9ARBGV006 ¹ | \$3.50 | |
| Continuous Linear Movement | Green | Extended | Round | P9ARBSV006 | \$3.50 | |
| Continuous Linear Movement | Green | Flush | Square | P9ASBGV006 | \$3.50 | |
| Continuous Linear Movement | Green | Extended | Square | P9ASBSV006 | \$3.50 | |
| Continuous Clockwise Rotation | Black | Flush, Recessed | Round | P9ARBGN012 ¹ | \$3.50 | |
| Continuous Clockwise Rotation | Black | Extended | Round | P9ARBSN012 | \$3.50 | |
| Continuous Clockwise Rotation | Black | Flush | Square | P9ASBGN012 | \$3.50 |  |
| Continuous Clockwise Rotation | Black | Extended | Square | P9ASBSN012 | \$3.50 | |
| Continuous Clockwise Rotation | Green | Flush, Recessed | Round | P9ARBGV012 ¹ | \$3.50 | |
| Continuous Clockwise Rotation | Green | Extended | Round | P9ARBSV012 | \$3.50 | |
| Continuous Clockwise Rotation | Green | Flush | Square | P9ASBGV012 | \$3.50 | |
| Continuous Clockwise Rotation | Green | Extended | Square | P9ASBSV012 | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Black | Flush, Recessed | Round | P9ARBGN013 ¹ | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Black | Extended | Round | P9ARBSN013 | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Black | Flush | Square | P9ASBGN013 | \$3.50 |  |
| Continuous Counter-Clockwise Rotation | Black | Extended | Square | P9ASBSN013 | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Green | Flush, Recessed | Round | P9ARBGV013 ¹ | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Green | Extended | Round | P9ARBSV013 | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Green | Flush | Square | P9ASBGV013 | \$3.50 | |
| Continuous Counter-Clockwise Rotation | Green | Extended | Square | P9ASBSV013 | \$3.50 | |

¹Caps for engineered plastic push buttons available for flush operators only.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Specially Marked Push Button Caps

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Specially Marked Push Button Caps

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

| Marking Description | Color | Special Function Type | Operator Style | Product Number | List Price GO-10GC |
|---------------------|-------|-----------------------|----------------|-------------------------|--------------------|
| Feed | Black | Flush, Recessed | Round | P9ARBGNO14 ¹ | \$3.50 |
| Feed | Black | Extended | Round | P9ARBSNO14 | \$3.50 |
| Feed | Black | Flush | Square | P9ASBGN014 | \$3.50 |
| Feed | Black | Extended | Square | P9ASBSNO14 | \$3.50 |
| Feed | Green | Flush, Recessed | Round | P9ARBGV014 ¹ | \$3.50 |
| Feed | Green | Extended | Round | P9ARBSV014 | \$3.50 |
| Feed | Green | Flush | Square | P9ASBGV014 | \$3.50 |
| Feed | Green | Extended | Square | P9ASBSV014 | \$3.50 |
| Increase (+) | Black | Flush, Recessed | Round | P9ARBGNO17 ¹ | \$3.50 |
| Increase (+) | Black | Extended | Round | P9ARBSNO17 | \$3.50 |
| Increase (+) | Black | Flush | Square | P9ASBGN017 | \$3.50 |
| Increase (+) | Black | Extended | Square | P9ASBSNO17 | \$3.50 |
| Increase (+) | Green | Flush, Recessed | Round | P9ARBGV017 ¹ | \$3.50 |
| Increase (+) | Green | Extended | Round | P9ARBSV017 | \$3.50 |
| Increase (+) | Green | Flush | Square | P9ASBGV017 | \$3.50 |
| Increase (+) | Green | Extended | Square | P9ASBSV017 | \$3.50 |
| Decrease (-) | Black | Flush, Recessed | Round | P9ARBGNO18 ¹ | \$3.50 |
| Decrease (-) | Black | Extended | Round | P9ARBSNO18 | \$3.50 |
| Decrease (-) | Black | Flush | Square | P9ASBGN018 | \$3.50 |
| Decrease (-) | Black | Extended | Square | P9ASBSNO18 | \$3.50 |
| Decrease (-) | Green | Flush, Recessed | Round | P9ARBGV018 ¹ | \$3.50 |
| Decrease (-) | Green | Extended | Round | P9ARBSV018 | \$3.50 |
| Decrease (-) | Green | Flush | Square | P9ASBGV018 | \$3.50 |
| Decrease (-) | Green | Extended | Square | P9ASBSV018 | \$3.50 |
| Auto | Black | Flush, Recessed | Round | P9ARBGNO26 ¹ | \$3.50 |
| Auto | Black | Extended | Round | P9ARBSNO26 | \$3.50 |
| Auto | Black | Flush | Square | P9ASBGN026 | \$3.50 |
| Auto | Black | Extended | Square | P9ASBSNO26 | \$3.50 |
| Auto | Green | Flush, Recessed | Round | P9ARBGV026 ¹ | \$3.50 |
| Auto | Green | Extended | Round | P9ARBSV026 | \$3.50 |
| Auto | Green | Flush | Square | P9ASBGV026 | \$3.50 |
| Auto | Green | Extended | Square | P9ASBSV026 | \$3.50 |
| Hand | Black | Flush, Recessed | Round | P9ARBGNO27 ¹ | \$3.50 |
| Hand | Black | Extended | Round | P9ARBSNO27 | \$3.50 |
| Hand | Black | Flush | Square | P9ASBGN027 | \$3.50 |
| Hand | Black | Extended | Square | P9ASBSNO27 | \$3.50 |
| Hand | Green | Flush, Recessed | Round | P9ARBGV027 ¹ | \$3.50 |
| Hand | Green | Extended | Round | P9ARBSV027 | \$3.50 |
| Hand | Green | Flush | Square | P9ASBGV027 | \$3.50 |
| Hand | Green | Extended | Square | P9ASBSV027 | \$3.50 |
| Engage | Black | Flush, Recessed | Round | P9ARBGNO31 ¹ | \$3.50 |
| Engage | Black | Extended | Round | P9ARBSNO31 | \$3.50 |
| Engage | Black | Flush | Square | P9ASBGN031 | \$3.50 |
| Engage | Black | Extended | Square | P9ASBSNO31 | \$3.50 |
| Engage | Green | Flush, Recessed | Round | P9ARBGV031 ¹ | \$3.50 |
| Engage | Green | Extended | Round | P9ARBSV031 | \$3.50 |
| Engage | Green | Flush | Square | P9ASBGV031 | \$3.50 |
| Engage | Green | Extended | Square | P9ASBSV031 | \$3.50 |
| Disengage | Black | Flush, Recessed | Round | P9ARBGNO32 ¹ | \$3.50 |
| Disengage | Black | Extended | Round | P9ARBSNO32 | \$3.50 |
| Disengage | Black | Flush | Square | P9ASBGN032 | \$3.50 |
| Disengage | Black | Extended | Square | P9ASBSNO32 | \$3.50 |
| Disengage | Green | Flush, Recessed | Round | P9ARBGV032 ¹ | \$3.50 |
| Disengage | Green | Extended | Round | P9ARBSV032 | \$3.50 |
| Disengage | Green | Flush | Square | P9ASBGV032 | \$3.50 |
| Disengage | Green | Extended | Square | P9ASBSV032 | \$3.50 |
| Coolant | Black | Flush, Recessed | Round | P9ARBGNO01 ¹ | \$3.50 |
| Coolant | Black | Extended | Round | P9ARBSNO01 | \$3.50 |
| Coolant | Black | Flush | Square | P9ASBGN001 | \$3.50 |
| Coolant | Black | Extended | Square | P9ASBSNO01 | \$3.50 |
| Coolant | Green | Flush, Recessed | Round | P9ARBGV001 ¹ | \$3.50 |
| Coolant | Green | Extended | Round | P9ARBSV001 | \$3.50 |
| Coolant | Green | Flush | Square | P9ASBGV001 | \$3.50 |
| Coolant | Green | Extended | Square | P9ASBSV001 | \$3.50 |



(Feed)



(Increase)



(Decrease)



(Auto)



(Hand)



(Engage)



(Disengage)



(Coolant)

¹Caps for engineered plastic push buttons available for flush operators only.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

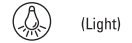
C-2000

Specially Marked Push Button Caps
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

Specially Marked Push Button Caps

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

| Marking Description | Color | Special Function Type | Operator Style | Product Number | List Price GO-10GC |
|---------------------|-------|-----------------------|----------------|-------------------------|--------------------|
| Light | Black | Flush, Recessed | Round | P9ARBG002 ¹ | \$3.50 |
| Light | Black | Extended | Round | P9ARBSN002 | \$3.50 |
| Light | Black | Flush | Square | P9ASBGN002 | \$3.50 |
| Light | Black | Extended | Square | P9ASBSN002 | \$3.50 |
| Light | Green | Flush, Recessed | Round | P9ARBGV002 ¹ | \$3.50 |
| Light | Green | Extended | Round | P9ARBSV002 | \$3.50 |
| Light | Green | Flush | Square | P9ASBGV002 | \$3.50 |
| Light | Green | Extended | Square | P9ASBSV002 | \$3.50 |
| Lubrication | Black | Flush, Recessed | Round | P9ARBG005 ¹ | \$3.50 |
| Lubrication | Black | Extended | Round | P9ARBSN005 | \$3.50 |
| Lubrication | Black | Flush | Square | P9ASBGN005 | \$3.50 |
| Lubrication | Black | Extended | Square | P9ASBSN005 | \$3.50 |
| Lubrication | Green | Flush, Recessed | Round | P9ARBGV005 ¹ | \$3.50 |
| Lubrication | Green | Extended | Round | P9ARBSV005 | \$3.50 |
| Lubrication | Green | Flush | Square | P9ASBGV005 | \$3.50 |
| Lubrication | Green | Extended | Square | P9ASBSV005 | \$3.50 |
| Reset (R) | Blue | Flush, Recessed | Round | P9ARBSL037 ¹ | \$3.50 |
| Reset (R) | Blue | Extended | Round | P9ARBSL037 | \$3.50 |
| Reset (R) | Blue | Flush | Square | P9ASBSL037 | \$3.50 |
| Reset (R) | Blue | Extended | Square | P9ASBSL037 | \$3.50 |
| Reset (R) | Red | Flush, Recessed | Round | P9ARBSR036 ¹ | \$3.50 |
| Reset (R) | Red | Extended | Round | P9ARBSR036 | \$3.50 |
| Reset (R) | Red | Flush | Square | P9ASBSR036 | \$3.50 |
| Reset (R) | Red | Extended | Square | P9ASBSR036 | \$3.50 |
| Impulse Control (T) | Black | Flush, Recessed | Round | P9ARBG030 ¹ | \$3.50 |
| Impulse Control (T) | Black | Extended | Round | P9ARBSN030 | \$3.50 |
| Impulse Control (T) | Black | Flush | Square | P9ASBGN030 | \$3.50 |
| Impulse Control (T) | Black | Extended | Square | P9ASBSN030 | \$3.50 |
| Impulse Control (T) | Green | Flush, Recessed | Round | P9ARBGV030 ¹ | \$3.50 |
| Impulse Control (T) | Green | Extended | Round | P9ARBSV030 | \$3.50 |
| Impulse Control (T) | Green | Flush | Square | P9ASBGV030 | \$3.50 |
| Impulse Control (T) | Green | Extended | Square | P9ASBSV030 | \$3.50 |



(Light)



(Lubrication)



(Reset)



(Impulse Control)

¹Caps for engineered plastic push buttons available for flush operators only.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Specially Marked Diffusers and Inserts

For Illuminated Push Buttons and Pilot Lights

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

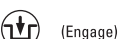
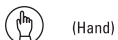
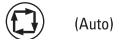
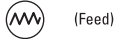
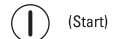
Specially Marked Diffusers and Inserts – White

For use with illuminated push buttons and diffused pilot lights only.

For round operators (polished chrome, satin chrome, round engineered plastic), order operator without lens, specially marked diffuser and lens separately. For square engineered plastic operators, order operator, insert and lens separately.

Separate lenses are listed on page 9-112.

| Marking Description | For use with | Operator Style | Type | Product Number | List Price GO-10GC |
|---------------------------------------|--|----------------|----------|----------------|-----------------------|
| Stop (text) | Pilot Lights | Round | Diffuser | P9ARDLS201 | \$1.00 |
| Stop (text) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL201 | \$1.00 |
| Stop (text) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF201 | \$1.00 |
| Start (text) | Pilot Lights | Round | Diffuser | P9ARDLS202 | \$1.00 |
| Start (text) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL202 | \$1.00 |
| Start (text) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF202 | \$1.00 |
| Stop (O) | Pilot Lights | Round | Diffuser | P9ARDLS029 | \$1.00 |
| Stop (O) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL029 | \$1.00 |
| Stop (O) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF029 | \$1.00 |
| Start (I) | Pilot Lights | Round | Diffuser | P9ARDLS028 | \$1.00 |
| Start (I) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL028 | \$1.00 |
| Start (I) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF028 | \$1.00 |
| 2nd Function | Pilot Lights | Round | Diffuser | P9ARDLS035 | \$1.00 |
| 2nd Function | Illuminated Push Buttons | Round | Diffuser | P9ARDPL035 | \$1.00 |
| 2nd Function | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF035 | \$1.00 |
| 3rd Function | Pilot Lights | Round | Diffuser | P9ARDLS038 | \$1.00 |
| 3rd Function | Illuminated Push Buttons | Round | Diffuser | P9ARDPL038 | \$1.00 |
| 3rd Function | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF038 | \$1.00 |
| Continuous Linear Movement | Pilot Lights | Round | Diffuser | P9ARDLS006 | \$1.00 |
| Continuous Linear Movement | Illuminated Push Buttons | Round | Diffuser | P9ARDPL006 | \$1.00 |
| Continuous Linear Movement | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF006 | \$1.00 |
| Continuous Clockwise Rotation | Pilot Lights | Round | Diffuser | P9ARDLS012 | \$1.00 |
| Continuous Clockwise Rotation | Illuminated Push Buttons | Round | Diffuser | P9ARDPL012 | \$1.00 |
| Continuous Clockwise Rotation | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF012 | \$1.00 |
| Continuous Counter-Clockwise Rotation | Pilot Lights | Round | Diffuser | P9ARDLS013 | \$1.00 |
| Continuous Counter-Clockwise Rotation | Illuminated Push Buttons | Round | Diffuser | P9ARDPL013 | \$1.00 |
| Continuous Counter-Clockwise Rotation | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF013 | \$1.00 |
| Feed | Pilot Lights | Round | Diffuser | P9ARDLS014 | \$1.00 |
| Feed | Illuminated Push Buttons | Round | Diffuser | P9ARDPL014 | \$1.00 |
| Feed | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF014 | \$1.00 |
| Increase (+) | Pilot Lights | Round | Diffuser | P9ARDLS017 | \$1.00 |
| Increase (+) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL017 | \$1.00 |
| Increase (+) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF017 | \$1.00 |
| Decrease (-) | Pilot Lights | Round | Diffuser | P9ARDLS018 | \$1.00 |
| Decrease (-) | Illuminated Push Buttons | Round | Diffuser | P9ARDPL018 | \$1.00 |
| Decrease (-) | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF018 | \$1.00 |
| Auto | Pilot Lights | Round | Diffuser | P9ARDLS026 | \$1.00 |
| Auto | Illuminated Push Buttons | Round | Diffuser | P9ARDPL026 | \$1.00 |
| Auto | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF026 | \$1.00 |
| Hand | Pilot Lights | Round | Diffuser | P9ARDLS027 | \$1.00 |
| Hand | Illuminated Push Buttons | Round | Diffuser | P9ARDPL027 | \$1.00 |
| Hand | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF027 | \$1.00 |
| Engage | Pilot Lights | Round | Diffuser | P9ARDLS031 | \$1.00 |
| Engage | Illuminated Push Buttons | Round | Diffuser | P9ARDPL031 | \$1.00 |
| Engage | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF031 | \$1.00 |
| Disengage | Pilot Lights | Round | Diffuser | P9ARDLS032 | \$1.00 |
| Disengage | Illuminated Push Buttons | Round | Diffuser | P9ARDPL032 | \$1.00 |
| Disengage | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF032 | \$1.00 |
| Coolant | Pilot Lights | Round | Diffuser | P9ARDLS001 | \$1.00 |
| Coolant | Illuminated Push Buttons | Round | Diffuser | P9ARDPL001 | \$1.00 |
| Coolant | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF001 | \$1.00 |
| Light | Pilot Lights | Round | Diffuser | P9ARDLS002 | \$1.00 |
| Light | Illuminated Push Buttons | Round | Diffuser | P9ARDPL002 | \$1.00 |
| Light | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF002 | \$1.00 |
| Lubrication | Pilot Lights | Round | Diffuser | P9ARDLS005 | \$1.00 |
| Lubrication | Illuminated Push Buttons | Round | Diffuser | P9ARDPL005 | \$1.00 |
| Lubrication | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF005 | \$1.00 |
| Impulse Control | Pilot Lights | Round | Diffuser | P9ARDLS030 | \$1.00 |
| Impulse Control | Illuminated Push Buttons | Round | Diffuser | P9ARDPL030 | \$1.00 |
| Impulse Control | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF030 | \$1.00 |
| Blank Insert | Pilot Lights, Illuminated Push Buttons | Square | Insert | 08QDF | \$1.00 |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Caps, Heads, Lenses and Handles
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

For Non-Illuminated Devices

| Accessory Type | For use with | Head Size | Operator Style | Color | Product Number | List Price GO-10GC |
|--------------------------------|---|-------------|----------------|--------|----------------------|-----------------------|
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Black | P9ARBGN | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Red | P9ARBGR | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Green | P9ARBGV | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Yellow | P9ARBGG | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Brown | P9ARBGM | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Blue | P9ARBGL | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | White | P9ARBGB | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Round | Gray | P9ARBGH | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Black | P9ASBGN | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Red | P9ASBGR | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Green | P9ASBGV | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Yellow | P9ASBGG | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Brown | P9ASBGM | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Blue | P9ASBGL | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | White | P9ASBGB | \$1.00 |
| Caps | Recessed Push Buttons, Flush Push Buttons | - | Square | Gray | P9ASBGH | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Black | P9ARBSN | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Red | P9ARBSR | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Green | P9ARBSV | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Yellow | P9ARBSG | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Brown | P9ARBSM | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Blue | P9ARBSL | \$1.00 |
| Caps | Extended Push Buttons | - | Round | White | P9ARBSB | \$1.00 |
| Caps | Extended Push Buttons | - | Round | Gray | P9ARBSH | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Black | P9ASBSN | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Red | P9ASBSR | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Green | P9ASBSV | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Yellow | P9ASBSG | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Brown | P9ASBSM | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Blue | P9ASBSL | \$1.00 |
| Caps | Extended Push Buttons | - | Square | White | P9ASBSB | \$1.00 |
| Caps | Extended Push Buttons | - | Square | Gray | P9ASBSH | \$1.00 |
| Mushroom Heads | | 28 mm dia. | Round | Black | P9ARB3N | \$7.00 |
| Mushroom Heads | | 28 mm dia. | Round | Red | P9ARB3R | \$7.00 |
| Mushroom Heads | | 28 mm dia. | Round | Green | P9ARB3V | \$7.00 |
| Mushroom Heads | | 28 mm dia. | Round | Yellow | P9ARB3G | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Black | P9ARB4N | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Red | P9ARB4R | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Green | P9ARB4V | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Yellow | P9ARB4G | \$7.00 |
| Mushroom Heads | | 60 mm dia. | Round | Black | P9ARB6N | \$9.00 |
| Mushroom Heads | | 60 mm dia. | Round | Red | P9ARB6R | \$9.00 |
| Mushroom Heads | | 60 mm dia. | Round | Green | P9ARB6V | \$9.00 |
| Mushroom Heads | | 60 mm dia. | Round | Yellow | P9ARB6G | \$9.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Black | P9ASB3N | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Red | P9ASB3R | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Green | P9ASB3V | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Yellow | P9ASB3G | \$7.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Black | P9ACB4N | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Red | P9ACB4R | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Green | P9ACB4V | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Yellow | P9ACB4G | \$8.00 |
| Knobs | Knob Operated Selector Switches | - | Round, Square | Black | P9ACMNN | \$3.00 |
| Knobs | Knob Operated Selector Switches | - | Round, Square | Red | P9ACMNR | \$3.00 |
| Knobs | Knob Operated Selector Switches | - | Round, Square | Green | P9ACMNV | \$3.00 |
| Knobs | Knob Operated Selector Switches | - | Round, Square | Yellow | P9ACMNG | \$3.00 |
| Knobs | Knob Operated Selector Switches | - | Round, Square | Blue | P9ACMNL | \$3.00 |
| Levers | | - | Round | Black | P9ARMVN | \$3.00 |
| Transparent Protective Caps | Extended Push Buttons, Flush Push Buttons | - | Round | Clear | P9ARCST | \$5.00 |
| Transparent Protective Caps | Extended Push Buttons, Flush Push Buttons | - | Square | Clear | P9ASCST | \$5.00 |
| Transparent Protective Caps | Flush Push Buttons | - | Round | Clear | O80CPT | \$5.00 |
| Transparent Protective Caps | Flush Push Buttons | - | Square | Clear | P9ASCCT | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Round | Black | O80CPN | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Round | Red | O80CPR | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Round | Green | O80CPV | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Round | Yellow | O80CPG | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Square | Black | P9ASCGN | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Square | Red | P9ASCGR | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Square | Green | P9ASC GV | \$5.00 |
| Colored Protective Caps | Flush Push Buttons | - | Square | Yellow | P9ASC GG | \$5.00 |
| Protective Silicone Rubber Cap | Flush Multi-function Push Buttons | - | Multi-Function | Clear | O80CPDT | \$5.00 |
| Transparent Flush Guard Ring | | - | - | Clear | P9ARSRL ¹ | \$1.24 |

¹Order quantity of 100.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Section 9

Caps, Heads, Lenses and Handles

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

For Illuminated Devices

| Accessory Type | For use with | Head Size | Operator Style | Color | Product Number | List Price GO-10GC |
|--------------------------------|---|-------------|---------------------------|--------|----------------------|-----------------------|
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Red | P9ARGLRR | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Green | P9ARGLRV | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Yellow | P9ARGLRG | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Orange | P9ARGLRA | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Blue | P9ARGLRL | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | White | P9ARGLRB | \$1.00 |
| Refracted Lenses | Pilot Lights | - | Round and Round Unibloc | Clear | P9ARGLRI | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Red | P9ARGLDR | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Green | P9ARGLDV | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Yellow | P9ARGLDG | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Orange | P9ARGLDA | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Blue | P9ARGLDL | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | White | P9ARGLDB | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Round and Round Unibloc | Clear | P9ARGLDI | \$0.50 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Red | P9ASGLDR | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Green | P9ASGLDV | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Yellow | P9ASGLDG | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Orange | P9ASGLDA | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Blue | P9ASGLDL | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | White | P9ASGLDB | \$1.00 |
| Diffused Lenses ¹ | Pilot Lights | - | Square | Clear | P9ASGLDI | \$1.00 |
| Diffusers | Pilot Lights | - | Round | Clear | P9ARDLS | \$0.50 |
| Diffusers | Push Buttons, Pilot Lights | - | Square | Clear | P9ASDPL ² | \$0.50 |
| Diffusers | Push Buttons | - | Round | Clear | P9ARDPL | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Red | P9ARGPDR | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Green | P9ARGPDV | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Yellow | P9ARGPDG | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Orange | P9ARGPDA | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Blue | P9ARGPDL | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | White | P9ARGPDB | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Round | Clear | P9ARGPDI | \$0.50 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Red | P9ASGPDR | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Green | P9ASGPDV | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Yellow | P9ASGPDG | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Orange | P9ASGPDA | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Blue | P9ASGPDL | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | White | P9ASGPDB | \$1.00 |
| Diffused Lenses ¹ | Push Buttons | - | Square | Clear | P9ASGPDI | \$1.00 |
| Glass Lenses | Pilot Lights | - | Round | Red | P9ARGLVR | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | Green | P9ARGLVV | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | Yellow | P9ARGLVG | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | Orange | P9ARGLVA | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | Blue | P9ARGLVL | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | White | P9ARGLVB | \$13.50 |
| Glass Lenses | Pilot Lights | - | Round | Clear | P9ARGLVI | \$13.50 |
| Mushroom Heads | | 40 mm dia. | Round | Red | P9ARGP4R | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Green | P9ARGP4V | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Yellow | P9ARGP4G | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Orange | P9ARGP4A | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Blue | P9ARGP4L | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | White | P9ARGP4B | \$7.00 |
| Mushroom Heads | | 40 mm dia. | Round | Clear | P9ARGP4I | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Red | P9ASGP3R | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Green | P9ASGP3V | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Yellow | P9ASGP3G | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Orange | P9ASGP3A | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Blue | P9ASGP3L | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | White | P9ASGP3B | \$7.00 |
| Mushroom Heads | | 29.7 mm sq. | Square | Clear | P9ASGP3I | \$7.00 |
| Knobs | | - | Round, Square | Red | P9ACGSLR | \$3.00 |
| Knobs | | - | Round, Square | Green | P9ACGSLV | \$3.00 |
| Knobs | | - | Round, Square | Yellow | P9ACGSLG | \$3.00 |
| Knobs | | - | Round, Square | Orange | P9ACGSLA | \$3.00 |
| Knobs | | - | Round, Square | Blue | P9ACGSLL | \$3.00 |
| Knobs | | - | Round, Square | White | P9ACGSLB | \$3.00 |
| Knobs | | - | Round, Square | Clear | P9ACGSLI | \$3.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Red | P9ACGP4R | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Green | P9ACGP4V | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Yellow | P9ACGP4G | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Orange | P9ACGP4A | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Blue | P9ACGP4L | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | White | P9ACGP4B | \$8.00 |
| Heads | Push-pull Mushroom-head Push Buttons | 40 mm dia. | Round, Square | Clear | P9ACGP4I | \$8.00 |
| Protective Silicone Rubber Cap | Multi-function Push Buttons | - | Flush Multi-Function | Clear | 080CPDT | \$5.00 |
| Protective Silicone Rubber Cap | Multi-function Push Buttons | - | Flush Top/Extended Bottom | Clear | P9ADCST | \$5.00 |
| Transparent Protective Caps | Extended Push Buttons, Flush Push Buttons | - | Round | Clear | P9ARCST | \$5.00 |
| Transparent Protective Caps | Extended Push Buttons, Flush Push Buttons | - | Square | Clear | P9ASCST | \$5.00 |

¹Must order diffuser separately for round devices. Diffuser is built into square devices.

²Order quantity—100.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

For Base-Mounted Pilot Devices
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

Plastic Enclosures

(NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13 & IP66)

For use with operators from pages 9-65 to 9-98.

| Enclosure Holes | Enclosure Color | For use with | Product Number | List Price GO-10GC |
|-----------------|------------------------|--|----------------|--------------------|
| 1 | Gray With Yellow Cover | P9S Plastic Operators P9X Plastic Operators | P9EPEG1 | \$15.00 |
| 1 | Gray | P9S Plastic Operators P9X Plastic Operators | P9EPE01 | \$15.00 |
| 2 | Gray | P9S Plastic Operators P9X Plastic Operators | P9EPE02 | \$17.50 |
| 3 | Gray | P9S Plastic Operators P9X Plastic Operators | P9EPE03 | \$22.50 |
| 4 | Gray | P9S Plastic Operators P9X Plastic Operators | P9EPE04 | \$32.00 |
| 6 | Gray | P9S Plastic Operators P9X Plastic Operators | P9EPE06 | \$49.00 |



Plastic Enclosures

Legend Plates For Plastic Enclosures

(Self-adhesive, black background)

| Marking Language | Legend Plate Marking | Product Number ¹ | List Price GO-10GC |
|------------------|---|-----------------------------|--------------------|
| Symbol | → | P9AELN006 | \$1.50 |
| Symbol | I | P9AELN028 | \$1.50 |
| Symbol | 0 | P9AELN029 | \$1.50 |
| Symbol | II | P9AELN035 | \$1.50 |
| Symbol | III | P9AELN038 | \$1.50 |
| Symbol | 0-I | P9AELN039 | \$1.50 |
| Symbol | I-0-II | P9AELN042 | \$1.50 |
| English | Stop | P9AELN201 | \$1.50 |
| English | Start | P9AELN202 | \$1.50 |
| English | Down | P9AELN203 | \$1.50 |
| English | Up | P9AELN204 | \$1.50 |
| English | Close | P9AELN205 | \$1.50 |
| English | Open | P9AELN206 | \$1.50 |
| English | On | P9AELN212 | \$1.50 |
| English | Off | P9AELN213 | \$1.50 |
| English | Forward | P9AELN214 | \$1.50 |
| English | Reverse | P9AELN215 | \$1.50 |
| English | Auto | P9AELN219 | \$1.50 |
| English | Left | P9AELN222 | \$1.50 |
| English | Right | P9AELN224 | \$1.50 |
| French | Arret | P9AELN301 | \$1.50 |
| French | Arriere | P9AELN302 | \$1.50 |
| French | Avant | P9AELN303 | \$1.50 |
| French | Descente | P9AELN304 | \$1.50 |
| French | Droite | P9AELN305 | \$1.50 |
| French | Gauche | P9AELN306 | \$1.50 |
| French | Marche | P9AELN308 | \$1.50 |
| French | Fermer | P9AELN309 | \$1.50 |
| French | Manuel | P9AELN312 | \$1.50 |
| French | Ouvrir | P9AELN316 | \$1.50 |
| Spanish | Cerrar | P9AELN501 | \$1.50 |
| Spanish | Adelante | P9AELN502 | \$1.50 |
| Spanish | Izquierda | P9AELN504 | \$1.50 |
| Spanish | Bajar | P9AELN505 | \$1.50 |
| Spanish | Abrir | P9AELN506 | \$1.50 |
| Spanish | Subir | P9AELN507 | \$1.50 |
| Spanish | Atras | P9AELN508 | \$1.50 |
| Spanish | Derecha | P9AELN509 | \$1.50 |
| Spanish | Marcha | P9AELN510 | \$1.50 |
| Spanish | Paro | P9AELN511 | \$1.50 |
| Spanish | Rapido | P9AELN512 | \$1.50 |
| Spanish | Rearme | P9AELN515 | \$1.50 |
| Spanish | Linea | P9AELN523 | \$1.50 |
| None | Blank | P9AELN | \$1.50 |
| Specify | Custom engraved, seven characters maximum | P9AELNEN | \$8.00 |

¹Package quantity is five; order in multiples of five.

Ground Terminal

| Product Number | List Price GO-10GC |
|----------------|--------------------|
| P9AEMT | \$1.00 |

Base-Mount Power Supplies (Screw Terminals Only)

| Power Supply Type | Bulb Type | Voltage | Product Number | List Price GO-10GC |
|--------------------|--------------|----------|----------------------|--------------------|
| Full Voltage | Incandescent | No lamp | P9PDNBO | \$17.50 |
| Full Voltage | Incandescent | 6V | P9PDNBA | \$21.00 |
| Full Voltage | Incandescent | 12V | P9PDNBB | \$21.00 |
| Full Voltage | Incandescent | 24V | P9PDNBD | \$21.00 |
| Full Voltage | Incandescent | 48V | P9PDNBG | \$21.00 |
| Full Voltage | Incandescent | 60V | P9PDNBH | \$21.00 |
| Full Voltage | Incandescent | 130V | P9PDNBL | \$21.00 |
| Full Voltage | LED | 6V | P9PDNBAL* | \$36.00 |
| Full Voltage | LED | 12V | P9PDNBBL* | \$36.00 |
| Full Voltage | LED | 24V | P9PDNBDL* | \$36.00 |
| Full Voltage | LED | 48V | P9PDNBGL* | \$36.00 |
| Full Voltage | LED | 120V | P9PDNBHL* | \$36.00 |
| Full Voltage | Neon | 110V | P9PDNBIN | \$25.00 |
| Full Voltage | Neon | 220V | P9PDNBIMN | \$25.00 |
| Resistor | Incandescent | 110-120V | P9PRNB ² | \$14.00 |
| Resistor | Incandescent | 220-240V | P9PRNB ³ | \$14.00 |
| Diode Resistor | Incandescent | 220-240V | P9PRDBN ⁴ | \$35.00 |
| Long-Life Resistor | Incandescent | 110-120V | P9PRLBJ | \$35.00 |

²Must be used with P9PDNBH full-voltage power supply (wired-in series).

³Must be used with P9PDNBL full-voltage power supply (wired-in series).

⁴AC only.

Replace asterisk (*) in LED product number with code from LED colors table.

*LED Colors

| Colors | Red | Green | Yellow | Orange | White | Blue |
|-------------|-----|-------|--------|--------|-------|------|
| *Color Code | R | V | G | A | B | L |

Contact Blocks (Screw Terminals Only)

| Contact Block Type | Contact Configuration | Product Number | List Price GO-10GC |
|--------------------|-----------------------|----------------|--------------------|
| Base Mount | 1NO | P9B10BN | \$7.50 |
| Base Mount | 1NC | P9B01BN | \$7.50 |



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Section 9

For Base-Mounted Pilot Devices

Outlines and Dimensions ($\frac{\text{in.}}{\text{mm}}$) (For Estimating Only)

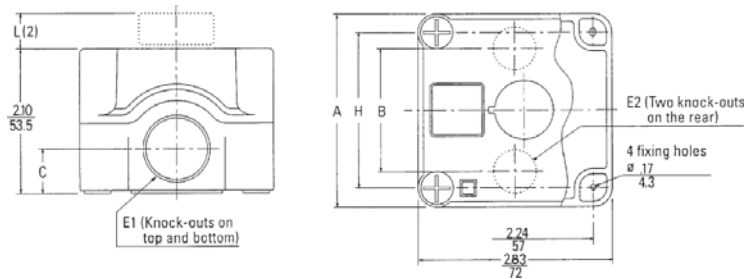
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

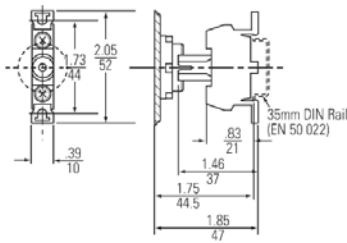
Plastic Enclosures - NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13 and IP66

| Enclosure Holes | Center Distance (in/mm) | Dimension A (in/mm) | Dimension B (in/mm) | Dimension C (in/mm) | Dimension E1 \varnothing (in/mm) | Dimension E2 ¹ \varnothing (in/mm) | Dimension H (in/mm) |
|-----------------|-------------------------|---------------------|---------------------|---------------------|------------------------------------|---|---------------------|
| 1 | | 2.83 (72) | 1.81 (46) | .65 (16.5) | .91 (23) | .61 (15.5) | 2.24 (57) |
| 2 | 1.18 (30) | 4.33 (110) | 3.07 (78) | .65 (16.5) | .91 (23) | .85 (21.5) | 3.74 (95) |
| 3 | 1.18 (30) | 5.51 (140) | 4.25 (108) | .65 (16.5) | .91 (23) | .85 (21.5) | 4.92 (125) |
| 4 | 1.18 (30) | 6.89 (175) | 5.63 (143) | .65 (16.5) | .91 (23) | .85 (21.5) | 6.30 (160) |
| 6 | 1.18 (30) | 9.25 (235) | 7.87 (200) | .77 (19.5) | 1.14 (29) | .91 (23) | 8.66 (220) |

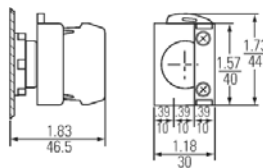
¹1-, 2-, 3-, and 4-hole enclosures suitable for cable gland, with locknut, PG16 or 1/2" NPT. 6-hole enclosure suitable for cable gland, with locknut, PG21 or 3/4" NPT.



Plastic Enclosures



Base Mount Power Supply



Single Contact Blocks with Screw Terminals



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Enclosures

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Die-Cast Aluminum NEMA Type 1, 3, 3R, 4, 4X, 12 and 13

| Enclosure Holes | Useful Depth (inches/mm) | Product Number ¹ | List Price GO-10GC |
|-----------------|--------------------------|-----------------------------|--------------------|
| 1 | 2.83 (72) | 080SP1 | \$30.00 |
| 1 | 3.82 (97) | 080SP1M | \$35.00 |
| 2 | 2.83 (72) | 080SP2 | \$35.00 |
| 2 | 3.82 (97) | 080SP2M | \$42.00 |
| 3 | 3.82 (97) | 080SP3 | \$42.00 |
| 4 | 2.83 (72) | 080SP4 | \$43.00 |
| 4 | 3.82 (97) | 080SP4M | \$51.00 |
| 6 | 3.82 (97) | 080SP6 | \$53.00 |
| 8 | 3.82 (97) | 080SP8 | \$63.00 |
| 12 | 3.82 (97) | 080SP12 | \$83.00 |
| 18 | 3.82 (97) | 080SP18 | \$113.00 |
| 24 | 3.82 (97) | 080SP24 | \$143.00 |
| 35 | 4.37 (111) | 080SP35 | \$198.00 |

¹Multi-function push buttons (P9DPL...) are not suitable for these enclosures.



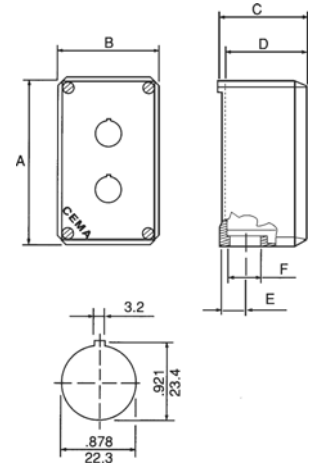
Die-Cast Aluminum Enclosures

Hole Location and Centerline Distances

| Product Number | Vertical Hole Location | Vertical Centerline Distance in (mm) | Horizontal Hole Location | Horizontal Centerline Distance in (mm) |
|----------------|------------------------|--------------------------------------|--------------------------|--|
| 080SP2 | 2 | 1.97 (50) | — | — |
| 080SP2M | 2 | 1.97 (50) | — | — |
| 080SP3 | 3 | 1.97 (50) | — | — |
| 080SP4 | 2 | 1.97 (50) | 2 | 1.18 (30) |
| 080SP4M | 2 | 1.97 (50) | 2 | 1.18 (30) |
| 080SP6 | 3 | 1.97 (50) | 2 | 1.18 (30) |
| 080SP8 | 2 | 1.97 (50) | 4 | 1.18 (30) |
| 080SP12 | 3 | 1.97 (50) | 4 | 1.18 (30) |
| 080SP18 | 3 | 1.97 (50) | 6 | 1.18 (30) |
| 080SP24 | 4 | 1.97 (50) | 6 | 1.18 (30) |
| 080SP35 | 5 | 1.97 (50) | 7 | 1.18 (30) |

Dimensions in (mm)

| Product Number | Dimension A in (mm) | Dimension B in (mm) | Dimension C in (mm) | Dimension D in (mm) | Dimension E in (mm) | Dimension F metric type hole |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------------|
| 080SP1 | 3.43 (87) | 3.43 (87) | 2.95 (75) | 2.83 (72) | .846 (21.5) | PG21 |
| 080SP1M | 3.43 (87) | 3.43 (87) | 3.94 (100) | 3.82 (97) | .846 (21.5) | PG21 |
| 080SP2 | 5.71 (145) | 3.43 (87) | 2.95 (75) | 2.83 (72) | .846 (21.5) | PG21 |
| 080SP2M | 5.71 (145) | 3.43 (87) | 3.94 (100) | 3.82 (97) | .846 (21.5) | PG21 |
| 080SP3 | 7.67 (195) | 3.43 (87) | 3.94 (100) | 3.82 (97) | .846 (21.5) | PG21 |
| 080SP4 | 5.71 (145) | 3.43 (87) | 2.95 (75) | 2.83 (72) | .846 (21.5) | PG21 |
| 080SP4M | 5.71 (145) | 3.43 (87) | 3.94 (100) | 3.82 (97) | .846 (21.5) | PG21 |
| 080SP6 | 7.67 (195) | 3.43 (87) | 3.94 (100) | 3.82 (97) | .846 (21.5) | PG21 |
| 080SP8 | 5.98 (152) | 5.98 (152) | 3.94 (100) | 3.82 (97) | 1.06 (27) | PG29 |
| 080SP12 | 8.07 (205) | 9.05 (230) | 3.94 (100) | 3.82 (97) | 1.06 (27) | PG29 |
| 080SP18 | 10.12 (257) | 11.81 (300) | 3.94 (100) | 3.82 (97) | 1.37 (35) | PG36 |
| 080SP24 | 10.12 (257) | 11.81 (300) | 3.94 (100) | 3.82 (97) | 1.37 (35) | PG36 |
| 080SP35 | 13.78 (350) | 13.78 (350) | 4.80 (122) | 4.37 (111) | 1.61 (41) | PG36 |



Outlines and Dimensions (in. / mm)
(For Estimating Only)

Metric to NPT Adaptors

| Adaptor Type | Product Number | List Price GO-10GC |
|--------------------|----------------|--------------------|
| PG21 to 1/2-inch | 080PG21A | \$25.00 |
| PG21 to 3/4-inch | 080PG21B | \$25.00 |
| PG29 to 1-inch | 080PG29C | \$25.00 |
| PG36 to 1-1/4-inch | 080PG36D | \$25.00 |



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Section 9

Enclosures

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Enclosure Only

| Enclosure Material | Enclosure Holes | Product Number ¹ | List Price GO-10GC |
|--------------------|-----------------|-----------------------------|-----------------------|
| Sheet Steel | 1 | 080HEG11 | \$42.00 |
| Sheet Steel | 2 | 080HEG12 | \$45.00 |
| Sheet Steel | 3 | 080HEG13 | \$48.00 |
| Sheet Steel | 4 | 080HEG14 | \$54.00 |
| Sheet Steel | 6 | 080HEG32 | \$72.00 |
| Sheet Steel | 9 | 080HEG33 | \$84.00 |
| Sheet Steel | 12 | 080HEG43 | \$108.00 |
| Sheet Steel | 16 | 080HEG44 | \$138.00 |
| Sheet Steel | 24 | 080HEG64 | \$216.00 |
| Sheet Steel | 30 | 080HEG65 | \$240.00 |
| Stainless Steel | 1 | 080HES11 | \$102.00 |
| Stainless Steel | 2 | 080HES12 | \$120.00 |
| Stainless Steel | 3 | 080HES13 | \$132.00 |
| Stainless Steel | 4 | 080HES14 | \$156.00 |
| Stainless Steel | 6 | 080HES32 | \$198.00 |
| Stainless Steel | 9 | 080HES33 | \$312.00 |
| Stainless Steel | 12 | 080HES43 | \$336.00 |
| Stainless Steel | 16 | 080HES44 | \$432.00 |
| Stainless Steel | 24 | 080HES64 | \$660.00 |
| Stainless Steel | 30 | 080HES65 | \$780.00 |



Sheet Steel and
Stainless Steel Enclosures

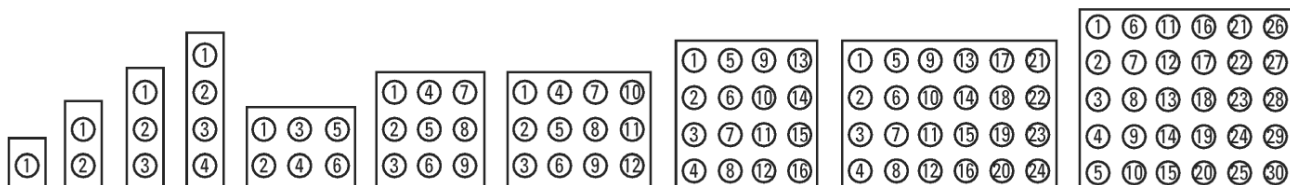
¹Multi-function push buttons (P9DPL...) are not suitable for these enclosures.

Assembled Unwired Stations

When ordering assembled, unwired stations, specify units and nameplates by hole arrangement. Prices do not include operators, terminals, nameplates, etc.

| Enclosure Material | Enclosure Holes | Product Number ¹ | List Price GO-10GC |
|--------------------|-----------------|-----------------------------|-----------------------|
| Sheet Steel | 1 | 080HEG11B | \$60.00 |
| Sheet Steel | 2 | 080HEG12B | \$69.00 |
| Sheet Steel | 3 | 080HEG13B | \$78.00 |
| Sheet Steel | 4 | 080HEG14B | \$90.00 |
| Sheet Steel | 6 | 080HEG32B | \$120.00 |
| Sheet Steel | 9 | 080HEG33B | \$150.00 |
| Sheet Steel | 12 | 080HEG43B | \$192.00 |
| Sheet Steel | 16 | 080HEG44B | \$246.00 |
| Sheet Steel | 24 | 080HEG64B | \$378.00 |
| Sheet Steel | 30 | 080HEG65B | \$432.00 |
| Stainless Steel | 1 | 080HES11B | \$120.00 |
| Stainless Steel | 2 | 080HES12B | \$144.00 |
| Stainless Steel | 3 | 080HES13B | \$162.00 |
| Stainless Steel | 4 | 080HES14B | \$192.00 |
| Stainless Steel | 6 | 080HES32B | \$246.00 |
| Stainless Steel | 9 | 080HES33B | \$378.00 |
| Stainless Steel | 12 | 080HES43B | \$420.00 |
| Stainless Steel | 16 | 080HES44B | \$540.00 |
| Stainless Steel | 24 | 080HES64B | \$822.00 |
| Stainless Steel | 30 | 080HES65B | \$972.00 |

¹Multi-function push buttons (P9DPL...) are not suitable for these enclosures.



Hole Arrangements



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Enclosures

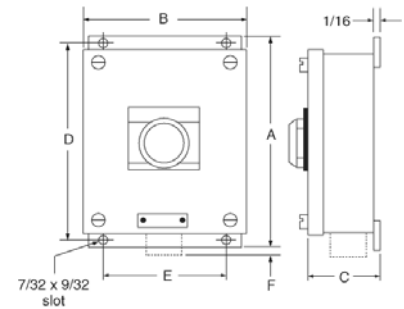
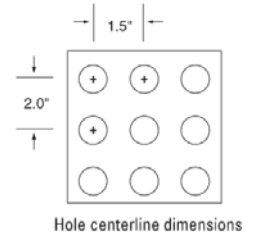
Outlines and Dimensions [in.(mm)] (For Estimating Only)

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Enclosure Only

| Product Number | Dimension A in (mm) | Dimension B in (mm) | Dimension C in (mm) | Dimension D in (mm) | Dimension E in (mm) | Dimension F in (mm) | Hub Dimension (in) |
|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| 080HEG11 | 5.50 (139.7) | 3.50 (88.9) | 4.25 (108.0) | 5.00 (127.0) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HEG12 | 7.75 (196.8) | 3.50 (88.9) | 4.25 (108.0) | 7.25 (184.2) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HEG13 | 10.00 (254.0) | 3.50 (88.9) | 4.25 (108.0) | 9.50 (241.3) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HEG14 | 13.38 (339.8) | 3.50 (88.9) | 4.25 (108.0) | 12.88 (327.2) | 2.38 (60.4) | .31 (7.9) | 1 |
| 080HEG32 | 8.25 (209.6) | 6.50 (165.1) | 4.25 (108.0) | 7.75 (196.8) | 5.88 (149.4) | .31 (7.9) | 1 |
| 080HEG33 | 10.50 (266.7) | 9.25 (235.0) | 4.25 (108.0) | 10.00 (254.0) | 5.88 (149.4) | .31 (7.9) | 1.25 |
| 080HEG43 | 10.50 (266.7) | 9.25 (235.0) | 4.25 (108.0) | 10.00 (254.0) | 8.19 (208.0) | .31 (7.9) | 1.5 |
| 080HEG44 | 12.75 (323.8) | 11.50 (292.1) | 4.25 (108.0) | 12.25 (311.2) | 8.19 (208.0) | .31 (7.9) | 1.5 |
| 080HEG64 | 12.75 (323.8) | 11.50 (292.1) | 4.25 (108.0) | 12.25 (311.2) | 10.38 (263.6) | .31 (7.9) | 1.5 |
| 080HEG65 | 15.00 (381.0) | 11.50 (292.1) | 4.25 (108.0) | 14.50 (368.3) | 10.38 (263.6) | .38 (9.6) | 1.5 |
| 080HES11 | 5.50 (139.7) | 3.50 (88.9) | 4.25 (108.0) | 5.00 (127.0) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HES12 | 7.75 (196.8) | 3.50 (88.9) | 4.25 (108.0) | 7.25 (184.2) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HES13 | 10.00 (254.0) | 3.50 (88.9) | 4.25 (108.0) | 9.50 (241.3) | 2.38 (60.4) | .31 (7.9) | 0.75 |
| 080HES14 | 13.38 (339.8) | 3.50 (88.9) | 4.25 (108.0) | 12.88 (327.2) | 2.38 (60.4) | .31 (7.9) | 1 |
| 080HES32 | 8.25 (209.6) | 6.50 (165.1) | 4.25 (108.0) | 7.75 (196.8) | 5.88 (149.4) | .31 (7.9) | 1 |
| 080HES33 | 10.50 (266.7) | 9.25 (235.0) | 4.25 (108.0) | 10.00 (254.0) | 5.88 (149.4) | .31 (7.9) | 1.25 |
| 080HES43 | 10.50 (266.7) | 9.25 (235.0) | 4.25 (108.0) | 10.00 (254.0) | 8.19 (208.0) | .31 (7.9) | 1.5 |
| 080HES44 | 12.75 (323.8) | 11.50 (292.1) | 4.25 (108.0) | 12.25 (311.2) | 8.19 (208.0) | .31 (7.9) | 1.5 |
| 080HES64 | 12.75 (323.8) | 11.50 (292.1) | 4.25 (108.0) | 12.25 (311.2) | 10.38 (263.6) | .31 (7.9) | 1.5 |
| 080HES65 | 15.00 (381.0) | 11.50 (292.1) | 4.25 (108.0) | 14.50 (368.3) | 10.38 (263.6) | .38 (9.6) | 1.5 |



Sheet- and stainless-steel enclosures

Enclosure Only Forms



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Section 9

Accessories

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Accessories

| Accessory Type | Operator Style | For use with | Head Size | Description | Product Number | List Price GO-10GC |
|--|----------------|---|----------------|---|----------------------|--------------------|
| Locking Ring Wrench | Round, Square | — | — | For tightening of metal locking ring | P9ACWAF | \$7.50 |
| Printed Circuit Board Adapter | Round, Square | Contact Blocks Power Supplies with Quick-connect Terminals | — | Use with contact blocks and power supplies with quick-connect terminals; to solder connection printed circuit board | P9ACA6 | \$4.00 |
| Flange | Round, Square | 3 Contact Blocks | — | Standard flange provided with all operators | P9ACFS3 | \$3.00 |
| Flange | Round, Square | 5 Contact Blocks | — | Optional flange for of maximum number mounting of contact blocks | P9ACFS5 ¹ | \$4.50 |
| Flange | Round, Square | Reed Logic Blocks Power Supplies | — | Optional for Reed block and power supply | P9ACFSM | \$4.50 |
| Padlocking Device with Clear Cover | Round, Square | Extended Push Buttons Flush Push Buttons Knob Selector Switches | — | Limits access to push buttons (flush and extended) and knob selector switch | P9ACRCL | \$15.00 |
| Extended Guard | Round | Mushroom-head Push Buttons | 40 mm diameter | Prevents accidental actuation of mushroom-head push button | P9ARRE4 | \$10.00 |
| Orientation Tab Bypass Ring | Round | — | — | Allows mounting of devices in panels without locating notch | P9ARAND | \$2.00 |
| Orientation Tab Extender | Round | — | — | Extends operator tab from 1.5 to 2.5 mm allowing mounting of devices on very thick panels | P9ARADE | \$2.00 |
| Ring Reducer, Black Plastic | Round | C-2000 Devices | — | Adapter allows C-2000 devices to be mounted in 30mm diameter hole | P9ARAX32 | \$7.50 |
| Ring Reducer, Polished Chrome | Round | C-2000 Devices | — | Adapter allows C-2000 devices to be mounted in 30mm diameter hole | P9ARAM32 | \$7.50 |
| Cap and Lens Extractor | Round | — | — | Provides easy removal of caps and lenses | P9ASEBG | \$7.00 |
| Lamp Extractor | Round, Square | — | — | Provides easy removal of bulbs | 080ESL | \$4.00 |
| Enclosure Hole Plug, Black Plastic | Round | — | — | Plugs unused holes in panel | P9ARHPR | \$5.00 |
| Enclosure Hole Plug, 30 x 30 mm, Black Plastic | Square | — | — | Plugs unused holes in panel | P9ASHP3 | \$5.00 |
| Enclosure Hole Plug, 30 x 50 mm, Black Plastic | Square | — | — | Plugs unused holes in panel | P9ASHP5 | \$5.00 |
| Push-On/ Push-Off Device | Round, Square | — | — | Converts a momentary push button into a maintained push button | P9ACDPP ² | \$26.00 |
| Assembled 4-Device Tabletop Display | — | — | — | Handy display of C-2000 push buttons | P9ACT04 | \$120.00 |
| Assembled 16-Device Tabletop Display | — | — | — | Handy display of C-2000 push buttons | P9ACT16 | \$250.00 |
| Sample Case | — | — | — | Portable overview of C-2000 push buttons | P9ACKITU | \$250.00 |
| Marking Plate, White | Round, Square | Contact Blocks | — | Snaps on back of contact block for circuit identification | P9ACPIU ³ | \$.25 |

¹Not suitable for use with push-pull or twist-to-release mushroom-heads; see maximum number of contacts in table, page 9-131.

²Use only early make contact (P9B10VA) when normally open contact is desired.

³Packaged in multiples of 5, order in multiples of 5.



Printed Circuit Board Adapter



Flanges



Padlocking Device with Clear Cover



Lamp Extractor



Push-on/ Push-off Device



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Accessories

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Keys

| Key Type | Key Number | Product Number | List Price GO-10GC |
|----------|-------------------|-------------------------|-----------------------|
| Standard | #3095 | 077C3095 ¹ | \$1.50 |
| Special | #3353 | 077C3353 ¹ | \$2.00 |
| Special | #9901 | 077C9901 ¹ | \$2.00 |
| Special | #9902 | 077C9902 ¹ | \$2.00 |
| Special | #9903 | 077C9903 ¹ | \$2.00 |
| Special | #9904 | 077C9904 ¹ | \$2.00 |
| Special | #9905 | 077C9905 ¹ | \$2.00 |
| Special | #9910 | 077C9910 ¹ | \$2.00 |
| Special | #9916 | 077C9916 ¹ | \$2.00 |
| Special | #9919 | 077C9919 ¹ | \$2.00 |
| Special | #R455 (Ronis key) | 077CR455 ¹ | \$2.00 |
| Colored | #73033 | 077CF73033 ¹ | \$2.00 |
| Colored | #73034 | 077CF73034 ¹ | \$2.00 |
| Colored | #73037 | 077CF73037 ¹ | \$2.00 |
| Colored | #73038 | 077CF73038 ¹ | \$2.00 |
| Colored | #73040 | 077CF73040 ¹ | \$2.00 |

¹Package quantity is five; order in multiples of five.
All include 2 Keys.



Keys



Enclosure Hole Plugs

Lamps

| Bulb Type | Voltage | Watts | Product Number | List Price GO-10GC |
|--------------|----------------------|-------|----------------|-----------------------|
| Incandescent | 6 VAC/DC | 0.6 | BA9S606 | \$3.00 |
| Incandescent | 6 VAC/DC | 1.5 | BA9S615 | \$3.00 |
| Incandescent | 12 VAC/DC | 2 | BA9S122 | \$3.00 |
| Incandescent | 24 VAC/DC | 2 | BA9S242 | \$3.00 |
| Incandescent | 48 VAC/DC | 2 | BA9S48 | \$3.00 |
| Incandescent | 60 VAC/DC | 1.2 | BA9S6012 | \$3.00 |
| Incandescent | 130 VAC/DC | 2 | BA9S130 | \$3.00 |
| Neon | 110 VAC ² | 0.077 | BA9SN110 | \$7.00 |
| Neon | 220 VAC ³ | 0.33 | BA9SN220 | \$7.00 |
| LED | 6 VAC/DC | 0.59 | 080BA9S6L* | \$18.00 |
| LED | 12 VAC/DC | 0.78 | 080BA9S12L* | \$18.00 |
| LED | 24 VAC/DC | 0.84 | 080BA9S24L* | \$18.00 |
| LED | 48 VAC/DC | 1.12 | 080BA9S48L* | \$18.00 |
| LED | 120 VAC/DC | 1.4 | 080BA9S120L* | \$18.00 |

²94 AC minimum starting voltage

³186 AC minimum starting voltage



Locking Ring Wrench



Ring Reducers, Black Plastic
and Polished Chrome

Replace asterisk (*) in LED Type product number from Colors table below.

*LED Colors

| Colors | Red | Green | Yellow | Orange | White | Blue |
|-------------|-----|-------|--------|--------|-------|------|
| *Color Code | R | V | G | A | B | L |



Assembled 16-Device Tabletop Display



Lamps



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

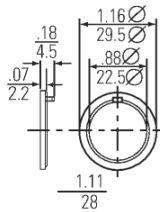
Section 9

Accessories

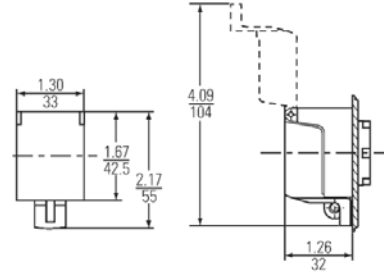
Outlines, Dimensions ($\frac{\text{in.}}{\text{mm}}$) (For Estimating Only)

600 VAC Max., 300 VDC Max.

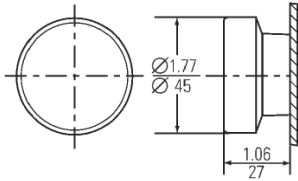
10 Amps Continuous AC, 2.5 Amps Continuous DC



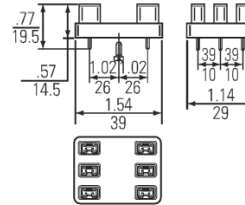
Orientation Tab Extender



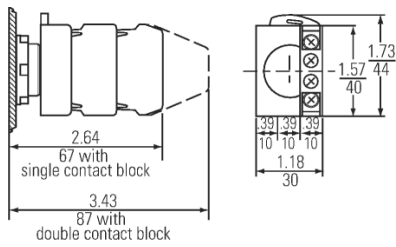
Padlocking Attachment



Extended Guard for 40 mm Mushroom-Head Push Button



Printed Circuit Board Adapter



Push-On/Push-Off Device



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Assembled Forms

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

C-2000 push buttons may be ordered factory-assembled with a single product number list price. These may be selected from either the Common Forms or Special Forms sections below.

Common Forms


Listed below are the most commonly ordered assembled push button devices. These devices are shipped factory-assembled with contact blocks and/or power supplies mounted on the operator. For assembled devices not listed, see the Special Forms

section on page 9-123 for data on developing product number and list price. All assembled devices carry an assembly charge of **\$5.00**, which is reflected in the **List Price, GO-10GC**, shown.

Minimum order quantity is **10 per item**. For smaller quantities, order individual components from pages 9-65 to 9-119.

Complete the assembled device product number by substituting the desired operator style (#), operator color (*), and/or lens color (*) with the appropriate digits from the tables below.

Operator Style (Third digit in Product Number)

| Style |  Polished Chrome |  Satin Chrome |  Round Engineered Plastic |  Square Engineered Plastic |
|-------------|---|--|--|---|
| #Style Code | C | M | X | S |

*Operator Color for Non-Illuminated Devices

| Color | Red | Green | Yellow | Blue | White | Brown | Grey | Black |
|-------------|-----|-------|--------|------|-------|-------|------|-------|
| *Color Code | R | V | G | L | B | M | H | N |

*Lens Color for Illuminated Devices

| Color | Red | Green | Yellow | Blue | White | Orange | Clear |
|-------------|-----|-------|--------|------|-------|--------|-------|
| *Color Code | R | V | G | L | B | A | I |

| Operator Type | Description | Product Number | List Price, GO-10GC | Consists of Components | | |
|---|--|-----------------|---------------------|------------------------|------------------|--------------|
| | | | | Operator | Contact Block(s) | Power Supply |
| Standard push button, flush | 1NO | P9#PN*GN10N0 | \$21.00 | P9#PN*G | P9B10VN | — |
| | 1NC | P9#PN*GN20N0 | \$21.00 | P9#PN*G | P9B01VN | — |
| | 1NO-1NC | P9#PN*GN30N0 | \$28.50 | P9#PN*G | P9B11VN | — |
| Standard push button, extended | 1NO | P9#PN*SN10N0 | \$21.00 | P9#PN*S | P9B10VN | — |
| | 1NC | P9#PN*SN20N0 | \$21.00 | P9#PN*S | P9B01VN | — |
| | 1NO-1NC | P9#PN*SN30N0 | \$28.50 | P9#PN*S | P9B11VN | — |
| Standard push button, recessed | 1NO | P9#PN*EN10N0 | \$21.00 | P9#PN*E ¹ | P9B10VN | — |
| | 1NC | P9#PN*EN20N0 | \$21.00 | P9#PN*E ¹ | P9B01VN | — |
| | 1NO-1NC | P9#PN*EN30N0 | \$28.50 | P9#PN*E ¹ | P9B11VN | — |
| Mushroom-head push button, 40mm diameter, red | Momentary, 1 NC | P9#EM4RNN20N0 | \$29.00 | P9#EM4RN | P9B01VN | — |
| | Push-pull, maintained, 1NC | P9#ET4RN1200 | \$34.00 | P9#ET4RN1 | P9B01VN | — |
| | Push-to-latch—turn-to-release, 1NC, polished chrome | P9CER4RNN20N0 | \$51.00 | P9CER4RN | P9B01VN | — |
| | Push-to-latch—turn-to-release, 1NC, satin chrome | P9MER4RNN20N0 | \$51.00 | P9MER4RN | P9B01VN | — |
| | Push-to-latch—turn-to-release, 1NC, positive-action, round engineered plastic | P9XER4RAN20N0 | \$51.00 | P9XER4RA | P9B01VN | — |
| | Push-to-latch—turn-to-release, 1NC, positive-action, square engineered plastic | P9SER4RAN20N0 | \$51.00 | P9SER4RA | P9B01VN | — |
| | Push-to-latch—key release, 1NC, standard key, polished chrome | P9CEC4RN95N20N0 | \$66.00 | P9CEC4RN95 | P9B01VN | — |
| | Push-to-latch—key release, 1NC, standard key, satin chrome | P9MEC4RN95N20N0 | \$66.00 | P9MEC4RN95 | P9B01VN | — |
| | Push-to-latch—key release, 1NC, standard key, positive-action, round engineered plastic | P9XEC4RA95N20N0 | \$66.00 | P9XEC4RA95 | P9B01VN | — |
| | Push-to-latch—key release, 1NC, standard key, positive-action, square engineered plastic | P9SEC4RA95N20N0 | \$66.00 | P9SEC4RA95 | P9B01VN | — |
| Illuminated push button, extended <i>continued on next page</i> | 24 V, full-voltage, 1NO-1NC | P9#PL*SDN12NADI | \$51.50 | P9#PL*SD | P9B10VN, P9B01VN | P9PDNVD |
| | 120 V, full-voltage, 1NO-1NC | P9#PL*SDN12NALI | \$51.50 | P9#PL*SD | P9B10VN, P9V01VN | P9PDNVL |
| | 120 V, transformer, 1NO-1NC | P9#PL*SDN30NGJI | \$73.00 | P9#PL*SD | P9B11VN | P9PTNVJ |

¹Not available in Round Engineered Plastic



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Section 9

Assembled Forms

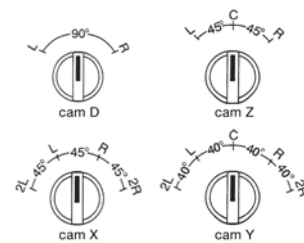
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

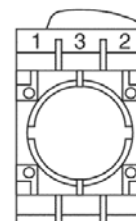
| Operator Type | Description | Product Number | List Price, GO-10GC | Consists of Components | | |
|--|--|-----------------|------------------------|------------------------|------------------|--------------|
| | | | | Operator | Contact Block(s) | Power Supply |
| Illuminated mushroom-head push button, momentary, 40 mm diameter | 24 V, full-voltage, 1NO-1NC, round | P9#EM4*LN12NADI | \$57.50 | P9#EM4*L | P9B10VN, P9B01VN | P9PDNVD |
| | 24 V, full-voltage, 1NO-1NC, 29 mm square | P9SEM3*LN12NADI | \$57.50 | P9SEM3*L | P9B10VN, P9B01VN | P9PDNVD |
| | 120 V, full-voltage, 1NO-1NC, round | P9#EM4*LN12NALI | \$57.50 | P9#EM4*L | P9B10VN, P9B01VN | P9PDNVL |
| | 120 V, full-voltage, 1NO-1NC, 29 mm square | P9SEM3*LN12NALI | \$57.50 | P9SEM3*L | P9B10VN, P9B01VN | P9PDNVL |
| | 120 V, transformer, 1NO-1NC, round | P9#EM4*LN30NGJI | \$79.00 | P9#EM4*L | P9B11VN | P9PTNVJ |
| | 120 V, transformer, 1NO-1NC, 29 mm square | P9SEM3*LN30NGJI | \$79.00 | P9SEM3*L | P9B11VN | P9PTNVJ |
| Illuminated mushroom-head push button, push-pull maintained | 24 V, full-voltage, 1NO-1NC, round | P9#ET4*L112ADI | \$64.50 | P9#ET4*L1 | P9B10VN, P9B01VN | P9PDNVD |
| | 120 V, full-voltage, 1NO-1NC, round | P9#ET4*L112ALI | \$64.50 | P9#ET4*L1 | P9B10VN, P9B01VN | P9PDNVL |
| | 120 V, transformer, 1NO-1NC, round | P9#ET4*L130GJI | \$86.00 | P9#ET4*L1 | P9B11VN | P9PTNVJ |
| Pilot light, diffused | 24 V, full-voltage | P9#L*DADI | \$32.00 | P9#L*D | — | P9PDNVD |
| | 120 V, full-voltage | P9#L*DALI | \$32.00 | P9#L*D | — | P9PDNVL |
| | 120 V, transformer | P9#L*DGJI | \$53.50 | P9#L*D | — | P9PTNVJ |
| Pilot light, refracted | 24 V, full-voltage | P9#L*RADI | \$32.00 | P9#L*R | — | P9PDNVD |
| | 120 V, full-voltage | P9#L*RALI | \$32.00 | P9#L*R | — | P9PDNVL |
| | 120 V, transformer | P9#L*RGJI | \$53.50 | P9#L*R | — | P9PTNVJ |
| Selector switch with black knob (see below) | 2-position, maintained, 90° throw, 1NO-1NC | P9#SMD0NN12N0 | \$34.50 | P9#SMD0N | P9B10VN, P9B01VN | — |
| | 3-position, maintained, 45° throw, 1NO-1NC | P9#SMZ0NN12N0 | \$34.50 | P9#SMZ0N | P9B10VN, P9B01VN | — |
| | 4-position, 45° throw, 2NO-2NC | P9#SMX0NN33N0 | \$49.50 | P9#SMX0N | (2) P9B11VN | — |
| | 5-position, 40° throw, 2NO-2NC | P9#SMY0NN33N0 | \$61.00 | P9#SMY0N | (2) P9B11VN | — |

Cams

| Type | Cam Code (6th digit in Product Number) | Cam Position | | | | Screw Terminal Contact Block Position | |
|------------|--|--------------|---|---|---|---------------------------------------|------------|
| | | 1 | 2 | 3 | 4 | Position 1 | Position 2 |
| 2 Position | D | | | | | — | P9B10VN |
| | | O | — | X | — | — | P9B10VN |
| 3 Position | Z | | | | | P9B10VN | — |
| | | O | O | X | — | P9B10VN | — |
| 4 Position | X | | | | | — | P9B11VN |
| | | O | X | O | O | P9B11VN | — |
| | | O | O | O | X | — | P9B11VN |
| | | X | O | O | O | — | P9B11VN |
| 5 Position | Y | | | | | — | P9B11VN |
| | | O | X | O | O | P9B11VN | — |
| | | O | O | O | X | — | P9B11VN |
| | | X | O | O | O | — | P9B11VN |



Operator Positions



Contact Block Positions
(viewed from rear)



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Assembled Forms—Illuminated Devices
 600 VAC Max., 300 VDC Max.
 10 Amps Continuous AC, 2.5 Amps Continuous DC

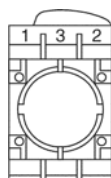
To specify and order special forms of assembled devices, first select the operator from pages 9-65 to 9-98. With the operator's number as a prefix, determine the number of contact blocks and choose a 3- or 5-position flange from Table 1 below.

Where the asterisk (*) appears, complete the appropriate product number digit with the contact block digit shown in Table 2. Note the flange position corresponds to the number shown above the asterisk. If no contact block is selected for this position, enter 0. If the device is illuminated, it will be necessary to insert the 3 power supply digits shown in the power supply tables in place of \$\$\$ at the end of the product number.

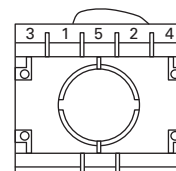
Product Number = [Operator Number + Contact Block Code + Power Supply]. Contact block code may be 5, 4 or 2 digits. No contact codes are used on Pilot Lights.

Pricing: Add list price for the operator + contact blocks adder (for each position) + Power Supply (if applicable) plus **\$5.00** assembly charge, GO-10GP. Minimum order quantity is **10 per item**. For smaller quantities order individual components from pages 9-65 to 9-119.

Special Forms-Table 1



Flange Position (viewed from rear) – 3-Position Flange



Contact Block Position (viewed from rear) – 5-Position Flange

Non-Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)

Power Supply: None

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|-----------------|
| 3-position flange | * = Contact Block Code for Flange Position indicated | 1 or 2 | 1, 2, or 4 |
| Operator product number | + N 1 2 N 0 | | |

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|------------------|
| 5-position flange | * = Contact Block Code for Flange Position indicated | 3 or 4 | 4-8 ¹ |
| Operator product number | + 3 1 2 4 0 | | |

¹Selector switch 4 max.

Non-Illuminated Push-Pull and Multifunction Push Buttons

Power Supply: None

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|-----------------|
| 3-position flange | * = Contact Block Code for Flange Position indicated | 1 or 2 | 1, 2, or 4 |
| Operator product number | + 1 2 4 0 | | |

5-position flange
Not Available

Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)

Power Supply: Full Voltage or Long Life Resistor

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|-----------------|
| 3-position flange | * = Contact Block Code for Flange Position indicated \$\$\$ = Power Supply Product Code Digits | 1 or 2 | 1, 2, or 4 |
| Operator product number | + N 1 2 N \$ \$ \$ | | |

Table 4 or 5

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|------------------|
| 5-position flange | * = Contact Block Code for Flange Position indicated \$\$\$ = Power Supply Product Code Digits | 3 or 4 | 4-8 ¹ |
| Operator product number | + 3 1 2 4 \$ \$ \$ | | |

Table 4 or 5

¹Selector switch 4 max.

Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)

Power Supply: Transformer, Panel Test (all), Standard Resistor

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|-----------------|
| 3-position flange | * = Contact Block Code for Flange Position indicated \$\$\$ = Power Supply Product Code Digits | 1 | 1 or 2 |
| Operator product number | + N 1 2 N \$ \$ \$ | | |

Table 3 or 5

| | | No. of Blocks | No. of Contacts |
|-------------------------|--|---------------|------------------|
| 5-position flange | * = Contact Block Code for Flange Position indicated \$\$\$ = Power Supply Product Code Digits | 2 or 3 | 3-6 ¹ |
| Operator product number | + 3 1 2 4 \$ \$ \$ | | |

Table 3 or 5

¹Selector switch 4 max.



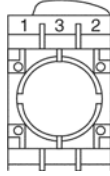
Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons C-2000

Assembled Forms-Illuminated Devices

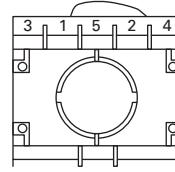
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Special Forms-Table 1 (continued)



Flange Position (viewed from rear) – 3-Position Flange



Contact Block Position (viewed from rear) – 5-Position Flange

Illuminated Push Buttons (except Push-Pull) and Selector Switches

Power Supply: Flashing

3-position flange

Not Available

5-position flange

* = Contact Block Code for Flange Position indicated | \$\$\$ = Power Supply Product Code Digits

| No. of Blocks | No. of Contacts |
|---------------|-----------------|
| 1 or 2 | 2, 3 or 4 |

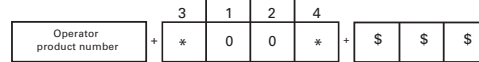


Table 3 or 4

Illuminated Push Buttons Push-Pull and Multifunction

Power Supply: Full Voltage or Long Life Resistor

3-position flange

* = Contact Block Code for Flange Position indicated

\$\$\$ = Power Supply Product Code Digits

| No. of Blocks | No. of Contacts |
|---------------|------------------------|
| 1 or 2 | 1, 2 or 4 ² |

² Push-pull 2 max.

5-position flange

Not Available



Table 3 or 4

Illuminated Push Buttons Push-Pull and Multifunction

Power Supply: Transformer, Panel Test (all), Standard Resistor

3-position flange

* = Contact Block Code for Flange Position indicated

\$\$\$ = Power Supply Product Code Digits

| No. of Blocks | No. of Contacts |
|---------------|-----------------|
| 1 | 1 or 2 |

5-position flange

Not Available

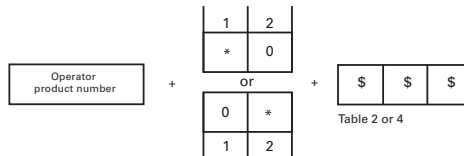


Table 2 or 4

Pilot Lights

Power Supply: All

3-position flange

\$\$\$ = Power Supply Product Code Digits

| No. of Blocks | No. of Contacts |
|---------------|-----------------|
| 1 | 1 or 2 |

5-position flange

Not Available



Table 2, 3 or 4



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Assembled Forms

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Contact Blocks-Table 2

| Terminal Type | Contacts | Possible Flange Position(s) | Product No. Digit | List Price, GO-10GC |
|------------------|------------------|-----------------------------|-------------------|---------------------|
| No contact block | | | 0 | \$0.00 |
| Screw | 1 NO | | 1 | \$7.50 |
| | 1NC | | 2 | \$7.50 |
| | 1NO-1NC | | 3 | \$15.00 |
| | 1 NO early make | | 6 | \$7.50 |
| | 1NC late opening | | 7 | \$7.50 |
| Quick Connect | 1 NO | | 4 | \$7.50 |
| | 1 NC | | 5 | \$7.50 |

Transformer Power Supplies-Table 3

| Transformer Type | Voltage (ac) | Possible Flange Position(s) | Lamp Type | | | |
|-------------------------|-----------------------------------|-----------------------------|--------------------|---------------------|--------------------|---------------------|
| | | | Incandescent | | LED | |
| | | | Product No. Digits | List Price, GO-10GC | Product No. Digits | List Price, GO-10GC |
| Standard Screw Terminal | 48 | | GGI | \$42.50 | GGL | \$57.50 |
| | 60 | | GHI | \$42.50 | GHL | \$57.50 |
| | 110-120 | | GJI | \$42.50 | GJL | \$57.50 |
| | 220-250 | | GNI | \$42.50 | GNL | \$57.50 |
| | 277-280 | | GRI | \$42.50 | GRL | \$57.50 |
| | 380 | | GUI | \$42.50 | GUL | \$57.50 |
| | 415-440 | | GWI | \$42.50 | GWL | \$57.50 |
| | 480-500 | | GVI | \$42.50 | GVL | \$57.50 |
| | 550-600 | | GZI | \$45.00 | GZL | \$57.50 |
| | Standard Screw Terminal, Flashing | 48 | | IGI | \$72.50 | IGL |
| 60 | | | IHI | \$72.50 | IHL | \$87.50 |
| 110-120 | | | IJI | \$72.50 | IJL | \$87.50 |
| 220-250 | | | INI | \$72.50 | INL | \$87.50 |
| 277-280 | | | IRI | \$72.50 | IRL | \$87.50 |
| 380 | | | IUI | \$72.50 | IUL | \$87.50 |
| 415-440 | | | IWI | \$72.50 | IWL | \$87.50 |
| 480-500 | | | IYI | \$72.50 | IYL | \$87.50 |
| 550-600 | | | IZI | \$72.50 | IZL | \$87.50 |

Shaded area indicates required or allowable alternative positions in flange.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Section 9

Assembled Forms

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Full Voltage Power Supplies-Table 4

| FV Power Supply Type | Voltage (AC/DC) | Possible Flange Position(s) | Lamp Type | | | | | |
|----------------------------|-----------------|-----------------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| | | | Incandescent | | LED | | Neon | |
| | | | Product No. Digits | List Price, GO-10GC | Product No. Digits | List Price, GO-10GC | Product No. Digits | List Price, GO-10GC |
| Standard Screw Terminal | 6 | | AAI | \$21.00 | AAL | \$36.00 | — | — |
| | 12 | | ABI | \$21.00 | ABL | \$36.00 | — | — |
| | 24 | | ADI | \$21.00 | ADL | \$36.00 | — | — |
| | 48 | | AGI | \$21.00 | AGL | \$36.00 | — | — |
| | 110 | | — | — | — | — | AIN | \$25.00 |
| | 120 (ac) | | — | — | AJL | \$36.00 | — | — |
| | 130 | | ALI | \$21.00 | — | — | — | — |
| | 220 | | — | — | — | — | AMN | \$25.00 |
| Quick Connect Terminal | 6 | | BAI | \$21.00 | BAL | \$36.00 | — | — |
| | 12 | | BBI | \$21.00 | BBL | \$36.00 | — | — |
| | 24 | | BDI | \$21.00 | BDL | \$36.00 | — | — |
| | 48 | | BGI | \$21.00 | BGL | \$36.00 | — | — |
| | 110 | | — | — | — | — | BIN | \$25.00 |
| | 120 (ac) | | — | — | BJL | \$36.00 | — | — |
| | 130 | | BLI | \$21.00 | — | — | — | — |
| | 220 | | — | — | — | — | BMN | \$25.00 |
| Screw Terminal, Flashing | 24 | | FDI | \$51.00 | FDL | \$66.00 | — | — |
| | 120 (ac) | | FJI | \$51.00 | FJL | \$66.00 | — | — |
| Screw Terminal, Panel Test | 6 | | EAI | \$36.00 | EAL | \$51.00 | — | — |
| | 12 | | EBI | \$36.00 | EBL | \$51.00 | — | — |
| | 24 | | EDI | \$36.00 | EDL | \$51.00 | — | — |
| | 48 | | EGI | \$36.00 | EGL | \$51.00 | — | — |
| | 110 | | — | — | — | — | EIN | \$40.00 |
| | 120 (ac) | | — | — | EJL | \$51.00 | — | — |
| | 130 | | ELI | \$36.00 | — | — | — | — |
| | 220 | | — | — | — | — | EMN | \$40.00 |

Resistor Power Supplies-Table 5

(Screw terminals and incandescent lamps only)

| Type | Input Voltage AC/DC | Possible Flange Positions | Product No. Digits | List Price, GO-10GC |
|-------------------------------|---------------------|---------------------------|--------------------|---------------------|
| Standard Resistor | 110-120 | | JJI | \$35.00 |
| | 220-240 | | JNI | \$35.00 |
| Resistor with Diode | 220-240 (ac) | | LNI | \$35.00 |
| Long Life Resistor | 110 | | NJI | \$35.00 |
| Standard Resistor, Panel Test | 220-240 | | QNI | \$50.00 |
| | | | | |

Shaded area indicates required or allowable alternative positions in flange.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Technical Data

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

General Specifications

| | | | |
|--------------------------------|---|---|---|
| Conformity to standards | UL508 (USA) NEMA ICS-2 (USA) VDE 0660 (Germany) BSI (Great Britain) CEI EN60947.5. 1 (Italy) CENELEC EN 5000 7 (Europe) | CSA C22.2 No. 14-M91 (Canada) IEC 947.5. 1 (International) UTE (France) NFC 63140 (France) JIS (Japan) | |
| Approvals | UL listed —File Number E66677 CSA Certified —File Number 16661-63 Manufacturing facility is registered to ISO 9000 | CE | |
| Finger protection at terminals | IP2X according to IEC 529 Terminal identification per CENELEC EN 50013 | | |
| Enclosure ratings | Suitable for use in NEMA Types 1, 3, 3R, 3S, 4, 4X, 12, and 13 enclosures. (Multi-function push buttons are suitable for NEMA Type 1 enclosures only unless used with protective rubber cap accessory.) IP66 per IEC 529, when mounted in enclosures with equal or superior seal. | | |
| Ambient temperature | <u>Operating</u> -13° to + 158°F -25° to + 70°C | <u>Storage</u> -40° to + 158°F -40° to + 70°C | |
| Climate suitability/humidity | <u>Climate Type</u> Temperature Wet Hot Wet Variable Wet | <u>Temperature</u> 74°F (23°C) 74°F (23°C) 104°F (40°C) 74° to 104°F (23° to 40°C) | <u>Relative Humidity</u> 50% 83% 92% 83% to 92% |
| Resistance to vibration | Per IEC 68-2-6 . 16g with a frequency from 40-500 Hz and maximum peak-to-peak amplitude of 0.75mm. | | |
| Resistance to shock | According to MIL 202B, method 202A . Test was performed for 1/2 sinusoid for 11ms, 38g max for all operators with transformers and 100g for all other operators. | | |
| Operating force | Standard push button operator: 2.5 lbs. (11N) Each contact block: 1.3 lbs. (6N) Selector switch operator: 2.4 in.-lb. (0.27 N-m) | | |

Wire Terminals

| | | | |
|--|---|------------------------|--|
| | Suitable for #22-#12 AWG stranded or solid copper wires, single or parallel conductors of same size. Terminal torque: 7-12 in./lb. Parallel conductor size combinations (stranded or solid wire): | | |
| Wire capacity and terminal torque requirements (for all power supplies and contact blocks) | <u>Parallel Conductor Size Combinations (Stranded or Solid Wire)</u> | <u>Terminal Torque</u> | |
| | #12 with #14 | 12 in.-lb. | |
| | #14 with #16 | 12 in.-lb. | |
| | #16 with #18 | 12 in.-lb. | |
| | #16 with #20 | 12 in.-lb. | |
| | #16 with #22 | 12 in.-lb. | |
| | #18 with #22 | 10-12 in.-lb. | |
| | #18 with #20 | 10-12 in.-lb. | |
| | #20 with #22 | 7-12 in.-lb. | |
| Quick connect terminals | Suitable for one female tab connector measuring 0.25 x 0.03 inches (6.35 x 0.8 mm) or two female tab connectors measuring 0.11 x 0.03 inches (2.8 x 0.8 mm). | | |

Contact Data

| | | | | | | | | | |
|----------------------------------|---|-----|-----|-----|-----|------|------|------|-----|
| Electrical reliability data | Electrical life and reliability in low level current: 80 million operations at 12V, 5mA, resistive load. (32 contacts tested successfully for 2.5 million operations.) | | | | | | | | |
| Dust resistance | In extremely dusty environments, electrical life at low level current is 250,000 operations at 12 V, 5mA, resistive load. In a clean environment, electrical life at low level current is 10 million operations at 12 V, 5mA, resistive load. | | | | | | | | |
| Thermal current | I _{th} = 10A per IEC 947-5-1 | | | | | | | | |
| Insulation voltage | U _i = 660 Volts ac/dc (opposite polarity) except 2NO and 2NC blocks 300 Vac/dc | | | | | | | | |
| Protection from electrical shock | Class I per IEC 536 for metal operators Class II (double insulation) per IEC 536 for plastic operators | | | | | | | | |
| Insulation category | Group "C" per VDE 0110 | | | | | | | | |
| Dielectric strength | 2500 Volts | | | | | | | | |
| Short circuit protection | 10A type gG fuse, per IEC 269.1 & 269.3 | | | | | | | | |
| Pilot duty ratings | A600 (maximum make volt-amperes = 7200; maximum break volt-amperes = 720; PF = .25) | | | | | | | | |
| | Volts (V) | 12 | 24 | 48 | 60 | 120 | 240 | 480 | 600 |
| | Continuous (A) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | Making (A) | 60 | 60 | 60 | 60 | 60 | 30 | 15 | 12 |
| | Breaking (A) | 10 | 10 | 10 | 10 | 6 | 3 | 1.5 | 1.2 |
| | Q300 (maximum make or break volt-amperes = 69) | | | | | | | | |
| | Volts (V) | 12 | 24 | 48 | 60 | 125 | 250 | 300 | |
| | Continuous (A) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | |
| | Making (A) | 2.5 | 2.5 | 1.4 | 1.1 | 0.55 | 0.27 | 0.23 | |
| | Breaking (A) | 2.5 | 2.5 | 1.4 | 1.1 | 0.55 | 0.27 | 0.23 | |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Section 9

Technical Data

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

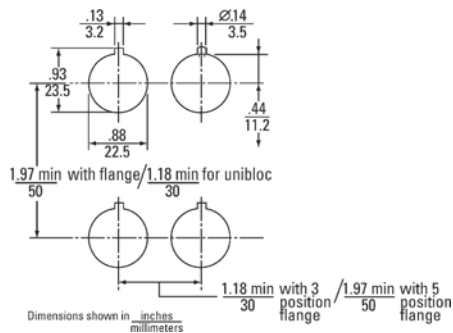
Contact Data

| IEC utilization categories | AC15 Control of AC Electromagnetic Loads | | | | | | | | | |
|----------------------------|--|-----|-----|-----|-----|------|------|-----|-----|-----|
| | Rated operational voltage and current | | | | | | | | | |
| | Ue (V) | 12 | 24 | 48 | 60 | 110 | 220 | 380 | 500 | 600 |
| | Ie (A) | 10 | 10 | 10 | 10 | 6 | 3 | 2 | 1.5 | 1.2 |
| | DC13 Control of DC Electromagnets | | | | | | | | | |
| | Rated operational voltage and current | | | | | | | | | |
| | Ue (V) | 12 | 24 | 48 | 60 | 110 | 220 | 300 | | |
| | Ie (A) | 2.5 | 2.5 | 1.4 | 1.0 | 0.55 | 0.27 | 0.2 | | |
| Contact characteristics | NC: slow make, double break (positive opening) NO: slow make, double break Self-cleaning (wiping action) contact Double-bridge contacts with four points of contact | | | | | | | | | |
| Contact resistance | ≤25mOhm per IEC 255.7 category 3 @ 24V, 1 amp | | | | | | | | | |
| Contact fidelity | Minimum current: 5mA Minimum voltage: 12 Vac/dc, maximum resistance—2 ohms | | | | | | | | | |
| Logic reed contact data | NC: Single break NO: Single break 120 Vac maximum, 0.15A maximum, 8VA maximum 30 Vdc maximum, .15A maximum, 4.5W maximum | | | | | | | | | |

Mounting

| | |
|---|--|
| Acceptable panel thickness | .040-.236 inches (1-6mm) |
| Operator locking ring torque | 26 in./lb. (3 N-m) |
| Force required to forcibly remove contact blocks and flange | Contact block or power supply from flange: 27 lbs. (118 N) 3- or 5-block flange from metal operator: 88 lbs. (392 N) 3- or 5-block flange from plastic operator: 66 lbs. (294 N) |

Mounting Dimensions



Mechanical Life Ratings for Operators

| Operators | Number of Operations |
|---|----------------------------------|
| Standard push buttons | 3,000,000 |
| Illuminated push buttons | 1,000,000—3,000,000 ¹ |
| Momentary mushroom-head push buttons | 3,000,000 |
| Maintained mushroom-head push buttons | 500,000 |
| Push-to-latch, turn-to-release mushroom-head push buttons | 300,000 |
| 3-position mushroom-head push buttons | 300,000 |
| Nonilluminated selector switches | 1,000,000 |
| Illuminated selector switches | 500,000 |
| Joysticks | 500,000 |
| Toggle switches | 500,000 |
| Wobble sticks | 1,000,000 |
| Key-operated push buttons | 500,000 |
| Selector push buttons | 1,000,000 |

¹Number of operations dependent on the operating duration of the lamp. If the lamp is left on for long periods of time, its heat can reduce mechanical life. All illuminated push buttons meet at least 1,000,000 operations.



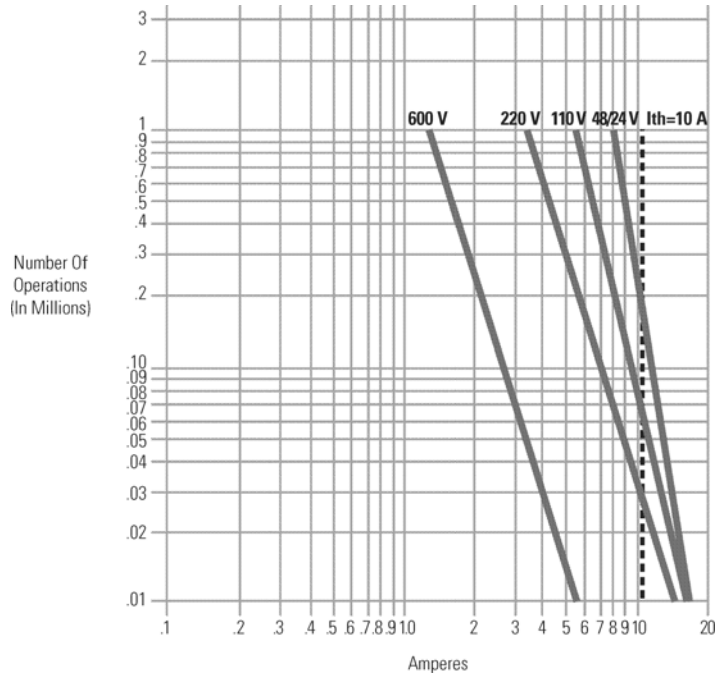
Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons C-2000

Technical Data

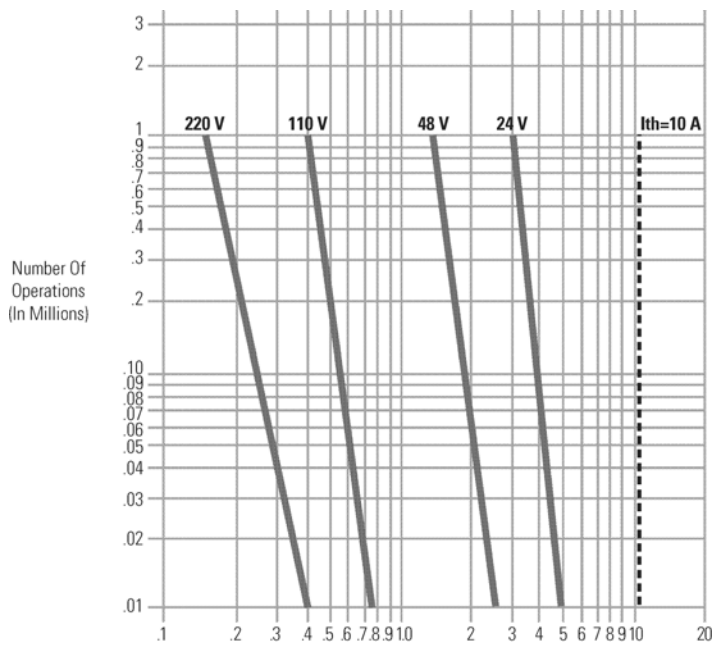
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Electrical Life Ratings for Contacts



Electrical Life—50/60 Hz alternating current (inductive)
per utilization category AC15



Electrical Life—direct current (inductive)
per utilization category DC13



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

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600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Materials

| Component | Material |
|---|---|
| Cap/levers/knobs (nonilluminated) | Polyamide/acetal |
| Cap/levers/knobs (illuminated) | Polycarbonate |
| Metal housing | Copper-nickel-chrome plated zinc/aluminum alloy |
| Plastic housing | Polyamide/acetal |
| Plunger | Polyester |
| Springs | Stainless steel |
| Body-to-panel gasket | Polyester elastomer |
| Cap-to-body gasket | Vinyl nitrile rubber |
| Lubricant | Lithium grease |
| Cams for nonilluminated selector switches | Polyamide/acetal |
| Cams for illuminated selector switches | Polyester |
| Cam followers | Polyamide/acetal |
| Contact block and power supply housings | Polyamide/acetal |
| Contacts | Pure silver |
| Conductors | Brass alloy |
| Flanges | Polyamide/acetal |
| Flange latches | Polyamide/acetal |
| Printed circuit board adapter | Polyamide/acetal |
| Joystick protective housing | Vinyl nitrile rubber |
| Joystick plunger, lever & cam | Acetal resin |
| Joystick actuator | Polyamide/acetal |
| Push-to-latch, turn-to-release actuator & plunger | Polyamide/acetal |
| Wobble stick | Polycarbonate |
| Toggle switch lever | Polyamide/acetal |
| Protective caps (clear) | Silicon rubber |
| Protective caps (colored) | Vinyl nitrile rubber |
| Push button protective guards | Polycarbonate |
| Mushroom-head guards | Polyamide/acetal |
| Padlockable cover | Polycarbonate and zinc-plated zinc/aluminum alloy |
| Metal locking rings | Zinc-plated zinc/aluminum alloy |
| Keys | Plated brass |
| Nameplate holders | Polyamide/acetal |
| Nameplate inserts | Laminated polyester |
| Hole plug | Polyamide/acetal |

Power Supply Selection

| Type | Principle of Operation | Benefit |
|---|---|--|
| Full voltage | Supplies input voltage directly to bulb. | Smallest and least expensive. Can be used with LEDs. |
| Transformer | Utilizes a transformer to step the input voltage down to 6 volts. | Transformer has the effect of damping the inrush current and voltage spikes from the switching device seen when the light is turned on, actually protecting the bulb from these factors that shorten life. Generates less heat than the resistor power supplies. Reduces unsafe supply voltages (up to 600 V) down to a safe level for lamp servicing. Can be used with LEDs. Able to withstand a short circuit of the lamp or lamp socket without damage. |
| Normal resistor | Utilizes a resistor in series with the incandescent lamp to drop the lamp voltage to 50% of the input voltage. | Least expensive way to reduce unsafe supply voltages (up to 240 V) down to a safe level for lamp servicing. |
| Diode resistor | Utilizes a resistor and a diode in series with the lamp to rectify and drop a 240 Vac input voltage to operate a 130 V incandescent lamp. | Provides the same function as the normal resistor, but takes up only one position in the flange rather than two. Generates less heat than the normal resistor power supplies. |
| Long-life resistor | Utilizes a resistor in series with the 130 V incandescent lamp to provide a lamp voltage 80% that of the input voltage. | Extends life of a 130 V incandescent bulb by 1300% (from 2000 to 28,000 hours). |
| Flashing (full-voltage or transformer) | Utilizes a flashing circuit which can be enabled or disabled by externally switching (shorting) two connections. | Allows the lamp to be switched between OFF, ON, and FLASHING modes. |
| Panel test (full-voltage or standard resistor) | Utilizes a diode to isolate the lamp test circuit from the supply circuit. | Allows use of indicating lights and "panel test" feature rather than individual push-to-test illuminated push buttons. Eliminates the need for the NO/NC contacts used on conventional push-to-test pilot lights. |



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons C-2000

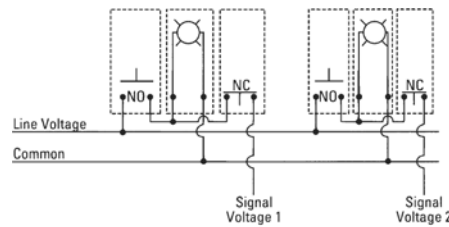
Technical Data

600 VAC Max., 300 VDC Max.

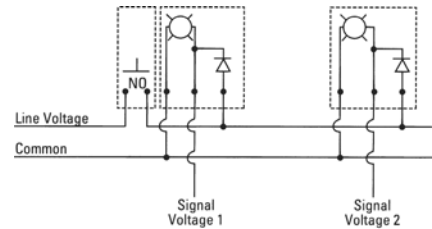
10 Amps Continuous AC, 2.5 Amps Continuous DC

Maximum Panel Test Power Supplies Per Contact Block

| Supply Voltage | AC | DC |
|----------------|-----|----|
| 6 | 15 | 15 |
| 12 | 30 | 30 |
| 24 | 60 | 60 |
| 48 | 120 | 66 |
| 60 | 150 | 66 |
| 130 | 300 | 72 |



Push-to-Test Indicating Lights



Panel Test Power Supplies

Maximum Number of Contacts¹

| Operator Type | Power Supply Type | Standard 3-Block Flange | Optional 5-Block Flange |
|--|---|-------------------------|-------------------------|
| Push button Mushroom-head push button Wobble stick | — | 4 | 8 |
| Nonilluminated selector switch Key selector switch | — | 4 | 8 |
| Illuminated push button Illuminated mushroom-head push button | Full-voltage, diode & resistor, long-life resistor | 4 | 8 |
| Illuminated push button Illuminated mushroom-head push button | Standard resistor, panel test, standard transformer | 2 | 6 |
| Illuminated push button Illuminated mushroom-head push button | All flashing/continuous | 0 | 4 |
| Illuminated selector switch | Full voltage, diode & resistor, long-life resistor | 4 | 4 |
| Illuminated selector switch | Standard resistor, panel test, standard transformer | 2 | 4 |
| Illuminated selector switch | All flashing/continuous | 0 | 4 |
| Push-pull mushroom-head push button | — | 2 | — |
| Push twist-to-reset mushroom-head (standard) Push key-to-reset mushroom-head (standard) | — | 2 | — |
| Push twist-to-reset mushroom-head—direct snap action Push key-to-reset mushroom-head—direct snap action | — | 4 ² | — |
| Illuminated push-pull mushroom-head push button | Full voltage, diode & resistor, long-life resistor | 2 | — |
| Illuminated push-pull mushroom-head push button | Standard resistor, panel test, standard transformer | 2 | — |
| Illuminated push-pull mushroom-head push button | All flashing/continuous | 0 | — |
| Joystick Key-operated push button Selector push button | — | 4 | 8 |
| Toggle switch | — | 4 | 4 |
| Multi-function push button (for each button) | — | 2 + 2 | 4 + 4 |
| Illuminated multi-function push button (for each button) | Full-voltage, diode & resistor, long-life resistor | 2 + 2 | 4 + 4 |
| Illuminated multi-function push button (for each button) | Standard resistor, panel test, standard transformer | 0 + 2 | 2 + 4 |
| Illuminated multi-function push button (for each button) | All flashing/continuous | 0 + 0 | 2 + 2 |
| All operator types when used in plastic enclosures | — | 2 | — |

¹ In some cases, the maximum number of contacts shown is less than the available number of flange positions. This is because, in these instances, contact block force would affect operation of the device or reduce operator life below values cited elsewhere. For specific application assistance, contact your nearest GE Energy Representative.

² Early versions with white rear plunger suitable for a maximum of two single contacts.



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

Section 9

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600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Lamp Selection

Incandescent, neon, and light-emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons and illuminated selector switches. Although incandescent lamps have traditionally been the most frequently used, it is wise to review the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption.

Benefits of LEDs include:

- Resistance to shock and vibration**—Since LEDs are solid-state, they are completely impervious to the problems associated with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps used in frequent on-off applications.
- Longer life**—The LEDs used with C-2000 push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the neon lamps, and 2,000 hours (3 months) for the standard incandescent lamps.
- Reduced power consumption**—The LEDs used for the C-2000 push buttons consume between 10% and 52% less power than the equivalent BA9S incandescent lamp. The table below shows the power consumption of each type:

| Volts AC/DC | Incandescent | Watts | LED | Watts | Neon | Watts |
|-------------|--------------|-------|--------------|-------|----------|-------|
| 6 | BA9S606 | 0.6 | 080BA9S6L* | 0.59 | — | — |
| 6 | BA9S615 | 1.5 | — | — | — | — |
| 12 | BA9S12 | 2.0 | 080BA9S12L* | 0.78 | — | — |
| 24 | BA9S24 | 2.0 | 080BA9S24L* | 0.84 | — | — |
| 48 | BA9S48 | 2.0 | 080BA9S48L* | 1.12 | — | — |
| 60 | BA9S6012 | 1.2 | — | — | — | — |
| 110 | — | — | — | — | BA9SN110 | 0.077 |
| 120 | — | — | 080BA9S120L* | 1.4 | — | — |
| 130 | BA9S130 | 2.0 | — | — | — | — |
| 220 | — | — | — | — | BA9SN220 | 0.330 |

- Lower operating temperature**—Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice.

Incandescent bulbs are recommended for light-duty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

Lamp Comparison

| Bulb Type | Approx. Lifespan (hours) | Shock & Vibration Immunity | Operating Temperature | Power Consumption | Brightness |
|--------------|--------------------------|----------------------------|-----------------------|-------------------|------------|
| LED | 100,000 | High | Medium | Medium | Medium |
| Incandescent | 2,000 | Low | High | High | High |
| Neon | 20,000 | Medium | Low | Low | Low |



Pilot and Signaling Devices

Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

C-2000

Technical Data

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Guideform Specifications

IEC 22 mm push buttons shall be type GE C-2000 series. They shall be listed by Underwriters Laboratories (UL), certified by Canadian Standards Association (CSA) and conform to International Electrotechnical Commission (IEC) and Japanese Industrial Standard (JIS) standards. All push buttons, selector switches and pilot lights shall conform to the applicable requirements of NEMA standard ICS-2 for AC and DC control circuits. Enclosures shall be listed by UL and certified by CSA.

Standard features shall include:

- Fully automated manufacturing with 100% on-line inspection.
- Manufactured in ISO 9001 certified facility.
- 4 different operator styles: round metal body with polished chrome finish, round metal body with satin chrome finish, black round engineered plastic body, and black square engineered plastic body.
- Contact blocks and power supplies completely interchangeable among all 4 styles of operators.
- Locking rings that tighten from the rear with a special wrench or flat-blade screwdriver.
- Contact block flanges that mount on operators with 4-point positive locking.
- Universal mounting design that permits push buttons to be mounted with or without locating notch punched in panel. Orientation tab on operator notch that is removable with screwdriver.
- Modular assembly incorporating snap-on contact blocks and power supplies, removable with flat-blade screw driver.
- Devices mount on 30 mm x 50 mm (1.18 x 1.97 in.) center.
- Devices mount on panel thickness of 1 to 6 mm (.039 to .236 in.).
- Captive front-of-panel gasket for superior sealing.
- Lamps removable from the front of the panel.
- Metal operators constructed of die cast body.
- Polished and satin chrome operators feature triple chrome plating.
- Permanent marking of contact blocks by laser etching.
- Double bridge wiping action contact block design for applications from 12-600 volts ac and 12-300 volts dc.
- PLC interfacing with standard contact blocks.
- Contact blocks rated for 10 million electrical operations at 12 volts, 5 milliamps.
- Contact block cases shall be ultrasonically welded to provide superior protection in dust conditions. Contact blocks rated for 250,000 operations at 12 volts, 5 milliamps in severely dusty conditions.
- Power supplies shall be available in full-voltage, resistor, and transformer forms.
- Resistor power supplies shall be available in standard, diode, and long-life forms.
- Screw, quick-connect, and base-mount contact blocks.
- Printed circuit board connector for use with quick-connect contact blocks.
- Global nomenclature.
- Multi-lingual nameplates.
- Global availability.



