SWITCHES













With so many reliable products to choose from, Gardner Bender switches perform wherever the contractor needs one.

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Single Pole (SP): a switch device that opens. closes or changes connections in a single conductor of an electrical circuit

Double Pole (DP): a switch device that opens, closes or changes connections in both conductors of the same circuit.

Two Circuit (2 CIR): a switch device that opens, closes or changes connections in a single conductor of two independent circuits.

Single Throw (ST): a switch device that opens, closes or completes a circuit at only one of the extreme positions of its actuator.

Double Throw (DT): a switch device that opens, closes or completes a circuit at both extreme positions of its actuator.

Actuator: A lever, push-button, slide, trigger or other means by which an external force is applied to operate a switch mechanism.

Normally Open (NO): A momentary type switch in which one or more circuits are open when the switch actuator is at its normal or rest position.

Normally Closed (NC): A momentary type switch in which one or more circuits are closed when the switch actuator is at its normal or rest position.

Alternate Action (Double Action Push): Push to make, then push to break, a circuit.

Power Ratings for Switches: the current handling capability of a switch measured in amperes, horsepower, lamp load or combinations of these with applicable voltages.





UL/CSA Rated Switches

A UL/CSA-marked rating in amperes indicates that the switch meets or exceeds test house performance requirements of 6000 make-and-break cycles at the rated current, preceded by 50 make-and-break cycles at 150% switch current rating. 125% is used when switch ratings exceed 10 amperes.

A UL/CSA horsepower-only rated device

meets minimum test requirements of 50 make-and-break cycles at the appropriate locked rotor current, followed by 6000 cycles at one-sixth the AC-locked rotor current and 10% of the DC-locked rotor current.

AC ampere ratings are resistive or inductive, with the inductive rating tested at 75% to 80% power factor.

AC horsepower ratings are inductive and tested at 40% to 50% power factor.

"L" Rating denotes ability of an AC-only switch to handle the initial high in-rush characteristics of a tungsten filament lamp on AC voltage only.

"T" Rating denotes ability of an AC/DC switch to handle the initial high in-rush characteristics of a tungsten filament lamp on either AC or DC voltage.

All DC ratings are 100% resistive only (non-inductive).

Many **AC-only rated** switches can be used in applications where less than 30 volts DC is required, provided current does not exceed full current rating of the switch.

Ampere-rated switches will *not* automatically handle in-rush characteristics of five to six times switch rating.

Toggle Switches



Versatile toggle switch family with multiple position configurations.

- Available in single or double pole.
- Perfect for industrial equipment or emergency lighting.
- ½" mounting hole required.
- Specifications: 10 A, 277 V AC / 20 A, 125 V AC

All switches must be installed with a hex nut (provided) behind panel to prevent damage during installation.

Part Number	GSW-10	GSW-11*	GSW-110	GSW-121	
Poles	SPST				
Pkg Qty	1/card	1/card	1/card	1/card	
Toggle Position	ON-OFF	ON-OFF	ON-OFF	ON-OFF	
Terminal Type	Screw	Screw	"O" Ring & Screw	Spade	
Rating	1½ HP 125-250 V AC	% HP 125-250 V AC	% HP 125-250 V AC	% HP 125-250 V AC	

^{*}GSW-11 has an ON-OFF faceplate.

Part Number	GSW-12	GSW-13	GSW-120	GSW-117		
Poles		SPDT				
Pkg Qty	1/card	1/card	1/card	1/card		
Toggle Position	ON-ON	ON-OFF-ON	ON-OFF-ON	(ON)-OFF-(ON)		
Terminal Type	Screw	Screw	Spade	Screw		
Rating	% HP 125-250 V AC					

⁽⁾ Indicates momentary action

Part Number	GSW-14	GSW-15	GSW-16	GSW-123
Poles		DF	ST	
Pkg Qty	1/card	1/card	1/card	1/card
Toggle Position	ON-OFF	ON-ON	ON-OFF-ON	(ON)-OFF-(ON)
Terminal Type	Screw	Screw	Screw	Screw
Rating	1½ HP 125-250 V AC			

() Indicates momentary action

Part Number	GSW-17*	GSW-18*	GSW-124	GSW-125	GSW-125BP
Poles			SPST		
Pkg Qty	1/card	1/card	1/card	1/card	10/box
Toggle Position	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF
Terminal Type	Screw	6" wire leads	screw	6" wire leads	6" wire leads
Actuator	bat lever	bat lever	short ball	short ball	short ball
Rating	3 A/240 V AC, 6 A/120 V AC	8 A/125 V, 4 A/250 V, 1/3 HP/125 V AC, 10 A/125 V AC	3 A/240 V AC, 6 A/120 V AC	3 A/250 V, 6 A/125 V	3 A/250 V, 6 A/125 V



Tough EDPM rubber covers to protect switches from moisture, dust and dirt.

• Built-in hex nut base screws onto all GB toggle switches.

Part #	Pkg Qty	Description
GSW-20	2/card	Toggle Switch Cover



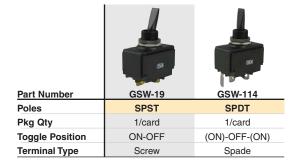
Gardner Bender

Double Insulated, Plastic Toggle Switches



Double insulated for moisture protection in all environments.

- Internal "O" ring design for moisture and dust resistance.
- Perfect for marine/recreational equipment and weather-resistant applications.
- Specifications: 10 A, 277 V AC / 20 A, 125 V AC



Momentary Contact Push-Button Switches



Basic push-button switch family utilized in applications requiring intermittent continuity contacts.



- Normally OFF or normally ON models.
- Screw terminals.
- Mounts in standard ½" diameter hole.
- Mounting nut included.

	200		
Part Number	GSW-22	GSW-23	
Poles	SPST		
Pkg Qty	1/card	1/card	
Toggle Position	OFF (ON)	ON (OFF)	
Terminal Type	screw	screw	
Plating	Black	Red	
Rating	6 A/120 V AC, 3 A/240 V AC	3 A/120 V AC, 1.5 A/277 V AC	

NOTE: GSW-22 is CSA approved only. () *Indicates momentary action*





Maintained push-button switch rugged and versatile enough to be utilized in many applications.



- Push on, push off switch with #18 AWG, 6" stripped wire leads.
- Mounting nut included.

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-21	1/card	SPST	Push ON-Push OFF	Wire Leads	10 A/125 V AC, 8 A/125 V, 4 A/250 V, 1/3 HP 125 V AC

Maintained Contact Push-Button Switches



Double insulated for moisture protection in all environments.



- Internal "O" ring design for moisture and dust resistance.
- Perfect for marine/recreational equipment and weather-resistant applications.
- Specifications: 10 A, 277 V AC / 20 A, 125 V AC

Part Number	GSW-24	GSW-24BP	GSW-25
Poles		SPST	
Pkg Qty	1/card	10/box	1/card
Toggle Position	ON-OFF	ON-OFF	ON-OFF
Terminal Type	6" wire leads	6" wire leads	6" wire leads
Plating	Nickel	Nickel	Brass
Circuit	2 pos. 2 wire	2 pos. 2 wire	2 pos. 2 wire

Horsepower Rating: AC horsepower ratings are inductive and tested at 40% to 50% power rating.

"L" Rating Example:

switch is rated to handle the high in-rush from 3 amp

incandescent AC loads.

wire leads

Nickel

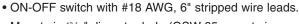
2 Pos. 2 Wire

3A/125VL means the

Single Circuit Pull-Chain Switches



Basic ON-OFF switch family with pull-chain feature.





• Mounts in $^{13}\!\!/_{32}$ diameter hole (GSW-35 mounts in $^{12}\!\!/_{2}$ diameter hole).

6" wire leads

Nickel

2 Pos. 2 Wire

- Color coordinated nickel or brass plated.
- Specifications: 3 A/125 VL, 6 A/125 V AC, 3 A/250 V AC

DAD OF O O O GSW-31BP **GSW-31 GSW-32** GSW-32BP GSW-35* **SPST** 1/card 10/box 1/card 10/box 1/card ON-OFF ON-OFF ON-OFF ON-OFF ON-OFF

6" wire leads

Brass

2 Pos. 2 Wire

6" wire leads

Brass

2 Pos. 2 Wire

Circuit
*All angle

Plating

Part Number

Toggle Position

6" wire leads

Nickel

2 Pos. 2 Wire

Terminal Type

Poles

Pkg Qty

Variable Speed & Two Circuit Pull-Chain Switches



Pull chain switches for multifunction applications.

- Push-in connections for #18 AWG wire.
- Mounts in 13/2" diameter hole.

· Two and three speed switching.

• Specifications: 6 A/125 V AC, 3 A/250 V AC, 6 A/125 VL

Part Number	GSW-33	GSW-34	GSW-39
Poles		SPST	
Pkg Qty	1/card	10/box	1/card
Toggle Position	OFF-ON-ON	OFF-ON-ON-ON	OFF-ON(A)-ON(B) -ON(A+B)
Terminal Type	wire leads	wire leads	6" wire leads
Plating	Brass	Brass	Brass
Circuit	3 Pos. 3 Wire	4 Pos. 4 Wire	4 Pos. 3 Wire

Standard Rocker Switches



Heavy-duty rocker switches that fit .830" X 1.45" panel cutouts.



- Frame and rocker are black glass-filled nylon.
- Lighted or unlighted versions available.
- Specifications: 10 A/277 V AC, 20 A/125 V AC
- Switches with solder terminals come in a phenolic case and do not have a moisture and dust resistant seal.

Appliance Rocker Switches



Economy rocker switches that fit standard .550" X 1.125" panel cutouts.



Part Number

Toggle Position

Terminal Type

*Red lighted

Poles

Pkg Qty

- · Perfect for machinery or appliances.
- Lighted or unlighted versions available.
- Specifications: 16 A/125 V AC, 8 A/250 V AC

SPST

GSW-41

1/card

ON-OFF

spade

	004	
Part Number	GSW-45	GSW-49*
Poles	SP	ST
Pkg Qty	1/card	1/card
Toggle Position	ON-OFF	ON-OFF
Terminal Type	spade	spade
Rating	% HP 125 - 250 V AC	¾ HP 125 - 250 V AC

Mini	Rocker	Switch



*Red lighted

Miniature rocker switch that fits .520" X .776" panel cutouts.



- · Perfect for small machinery or appliances.
- Lighted or unlighted versions available.
- Specifications: 13 A/125 V AC, 10 A/250 V AC, ½ HP 125 250 V AC.



GSW-42*

1/card

ON-OFF

spade

Part #	Pkg Qty	Poles	Toggle Position	Terminal Type	Rated
GSW-48*	1/card	SPST	ON-OFF	spade	10 A/125 - 250 V AC,



Rotary Switches

Single or three position switches in various fan and lighting applications.

- #18 AWG, 6" stripped wire leads.
- · Brass terminals.



Door Switch



Push button switch with metal box, cover plate and mounting hardware to operate lights when door is opened.

- Mounts in door jam.
- Fits in 1.25" X 2.75" X 2.0" deep approximate mounting hole.
- Specifications: 10 A/125 V AC, 10 A/250 V AC, 10 A/277 V AC, ½ HP 125 277 V AC.

