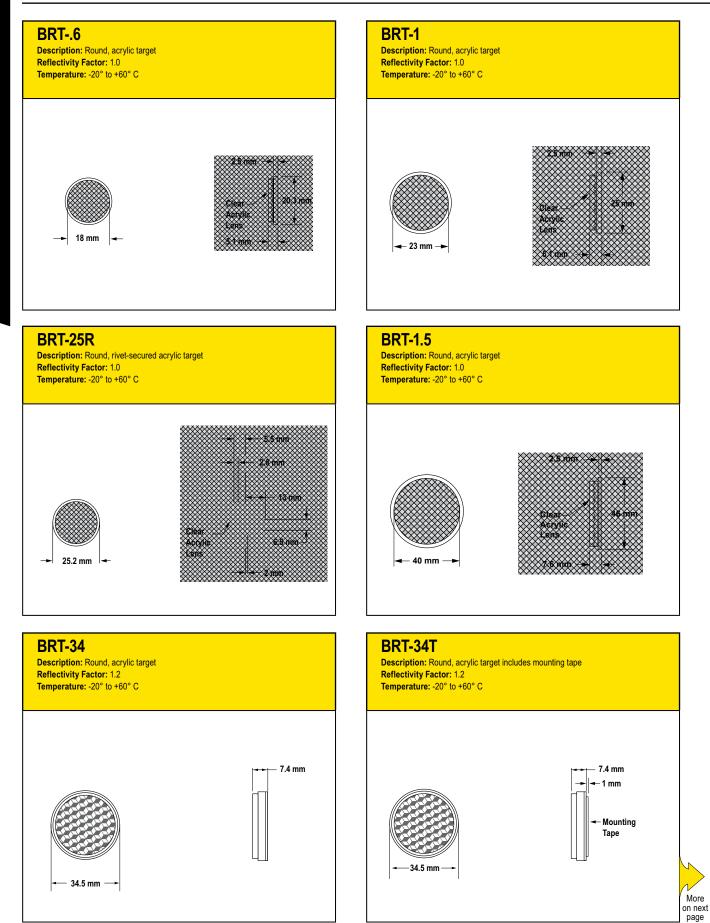
ACCESSORIES

CORDSETS

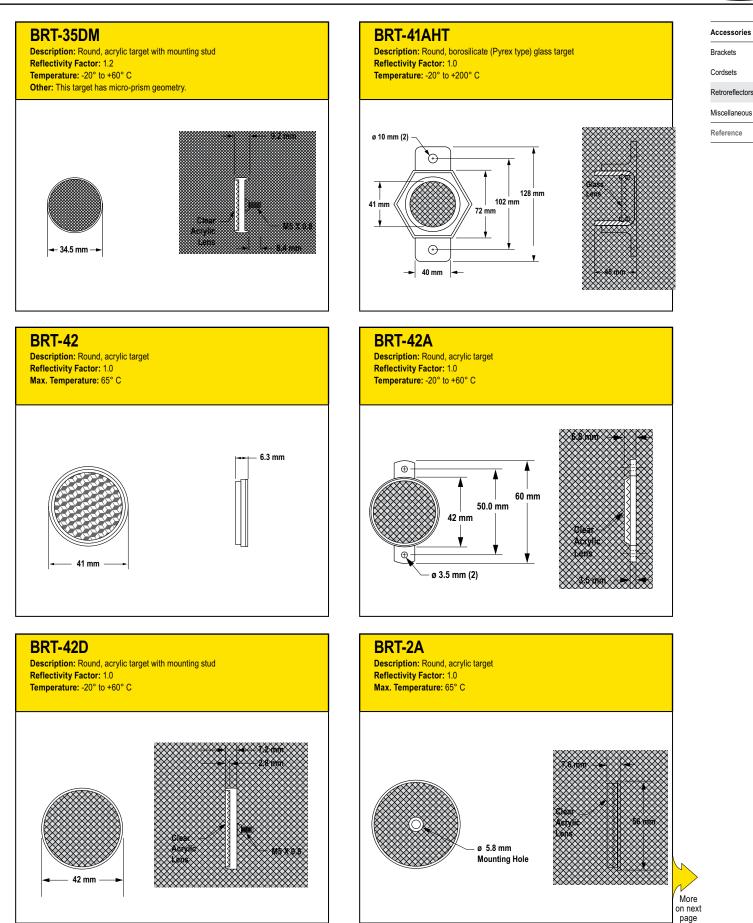
RETROREFLECTORS

MISCELLANEOUS



710 More information online at **bannerengineering.com**

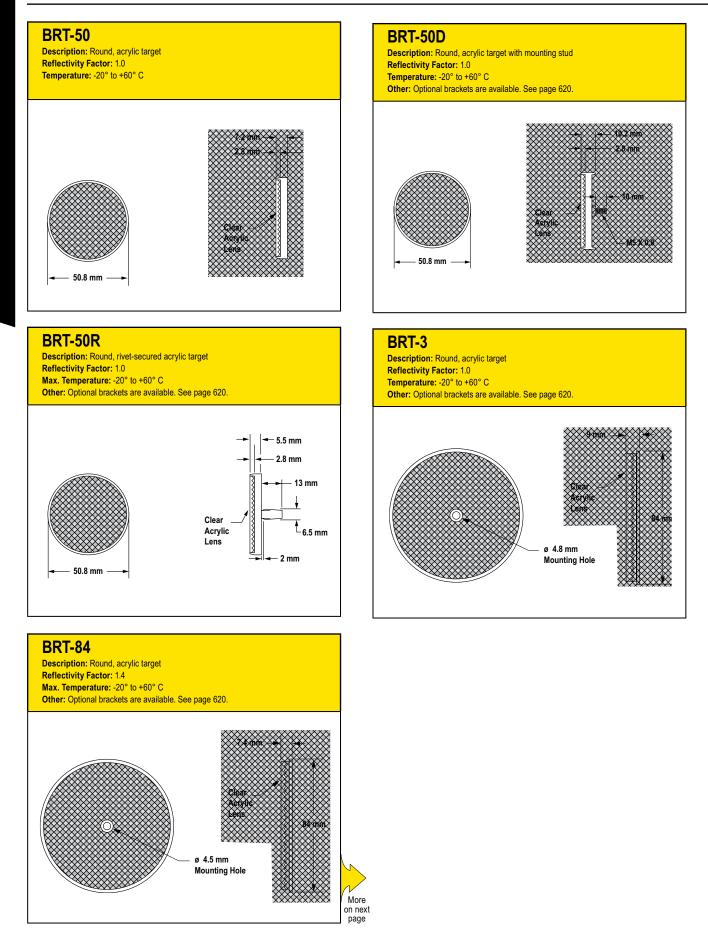




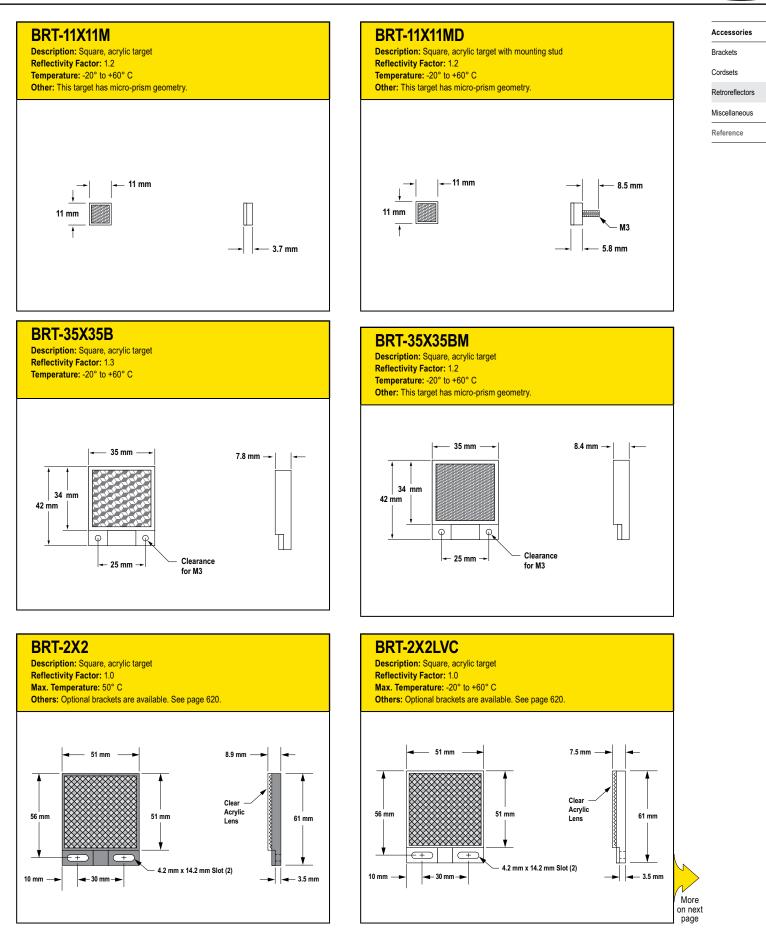
CORDSETS

RETROREFLECTORS

MISCELLANEOUS





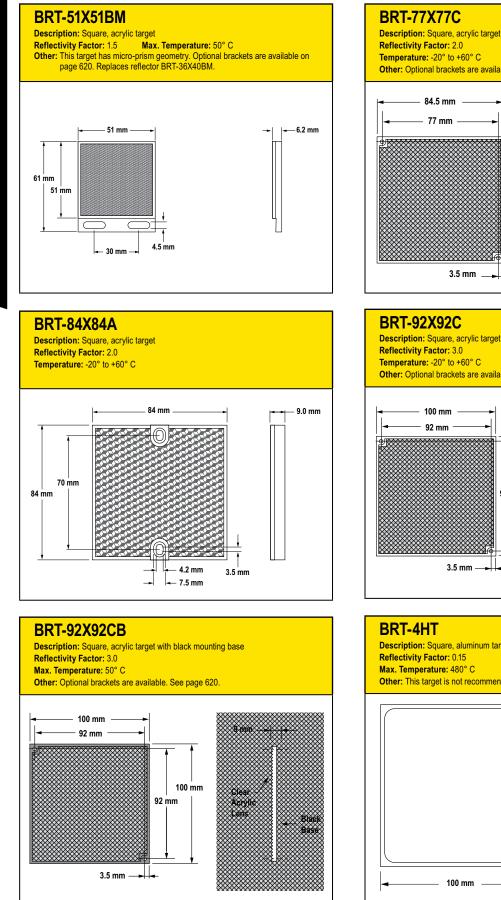


ACCESSORIES

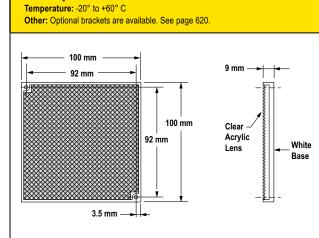
CORDSETS

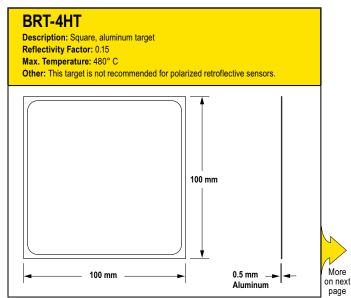
RETROREFLECTORS

MISCELLANEOUS



BRT-92X92C





BANNER

Accessories

Retroreflectors
Miscellaneous
Reference

Brackets Cordsets

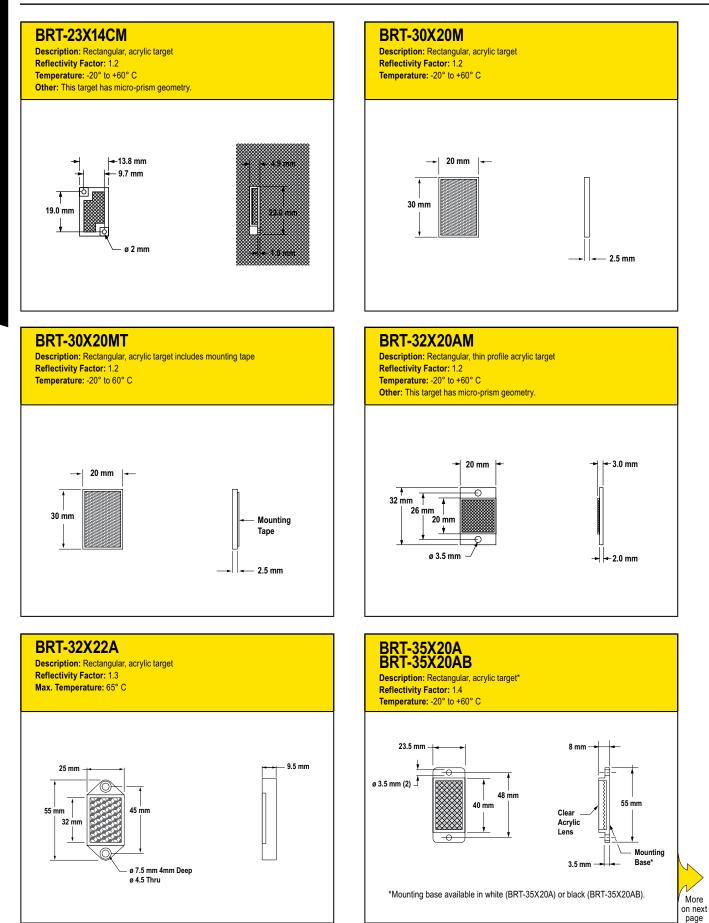


ACCESSORIES

CORDSETS

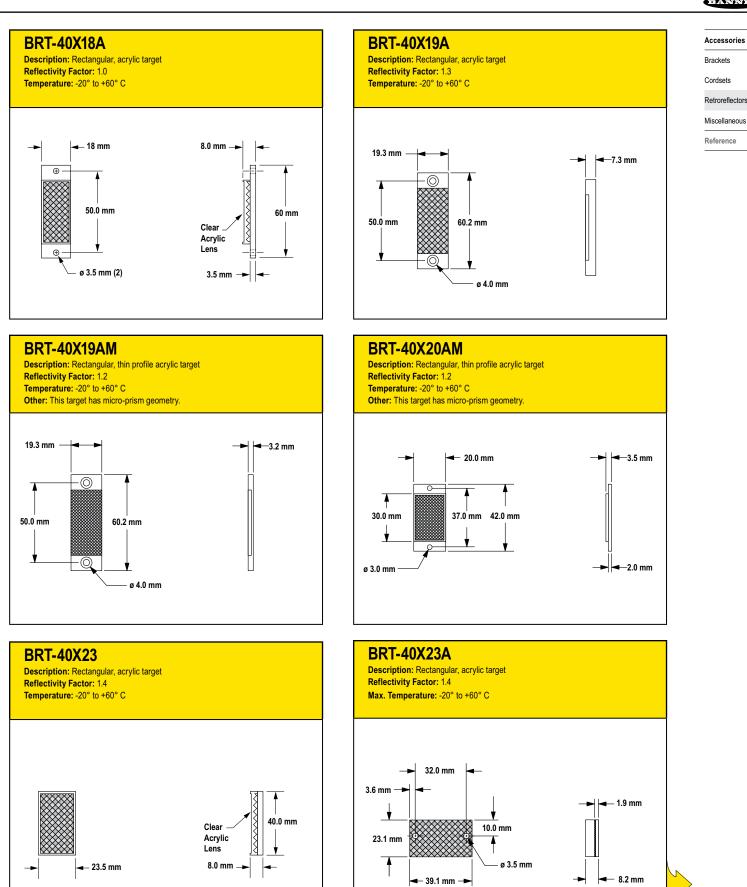
RETROREFLECTORS

MISCELLANEOUS



716 More information online at <u>bannerengineering.com</u>



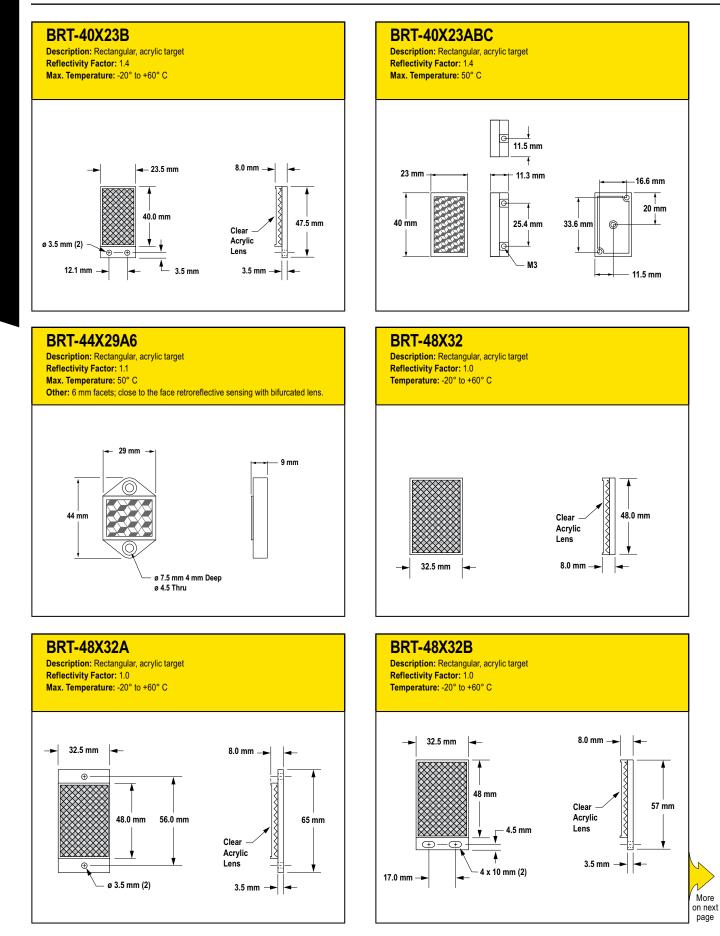


More on next page ACCESSORIES

CORDSETS

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Accessories

Brackets

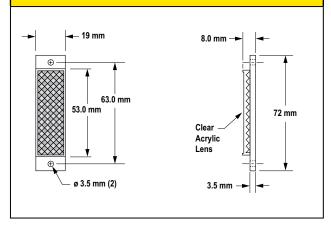
Cordsets

Retroreflectors Miscellaneous

Reference

BRT-53X19A

Description: Rectangular, acrylic target **Reflectivity Factor:** 1.4 **Max. Temperature:** -20° to +60° C

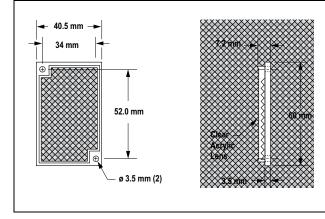


BRT-60X40C

 Description: Rectangular, acrylic target

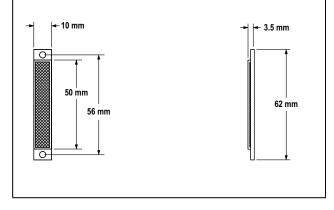
 Reflectivity Factor: 1.4
 Max. Temperature: -20° to +60° C

 Other: Optional brackets are available. See page 620.



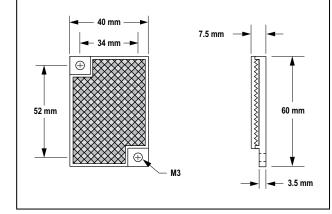
BRT-62X10AM

Description: Rectangular, thin profile acrylic target Reflectivity Factor: 1.2 Max. Temperature: -20° to +60 C Other: This target has micro-prism geometry.



BRT-60X40AF Description: Rectangular, acrylic target Reflectivity Factor: 1.4 Max. Temperature: -20° to +60° C

Other: Anti-fogging coating for use around steam. Optional brackets are available. See page 620.

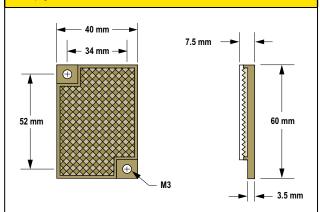


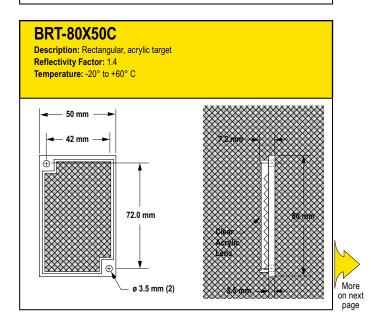
BRT-60X40IP69K

 Description:
 Rectangular, acrylic target (color is amber)

 Reflectivity Factor:
 1.4
 Max. Temperature:
 -20° to 140° C

 Other:
 Chemically resistant and IP69K washdown rated. Optional brackets are available.
 See page 620.



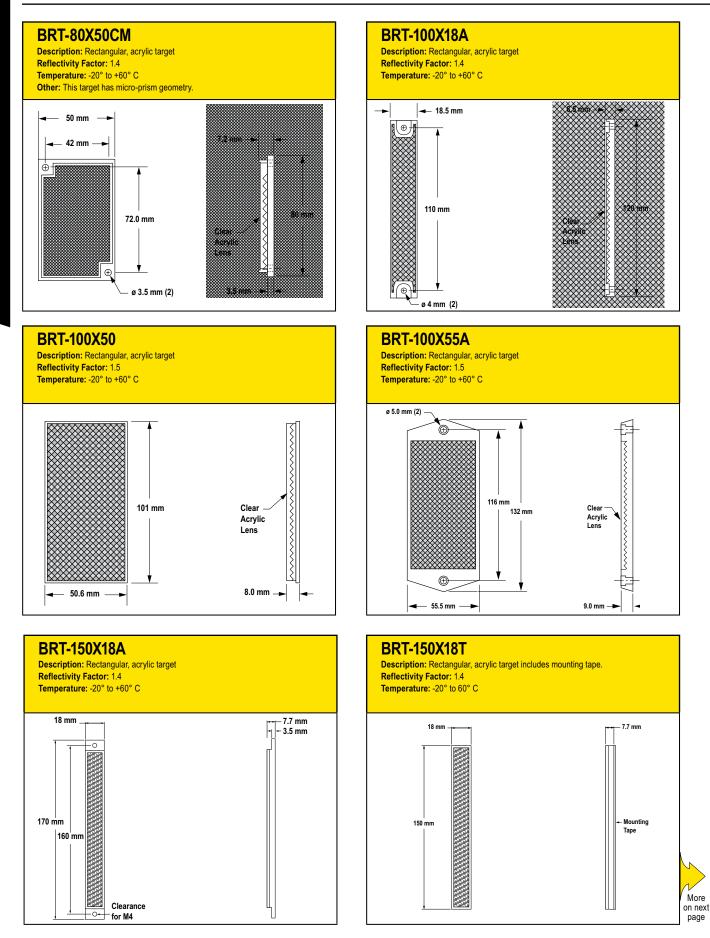


ACCESSORIES

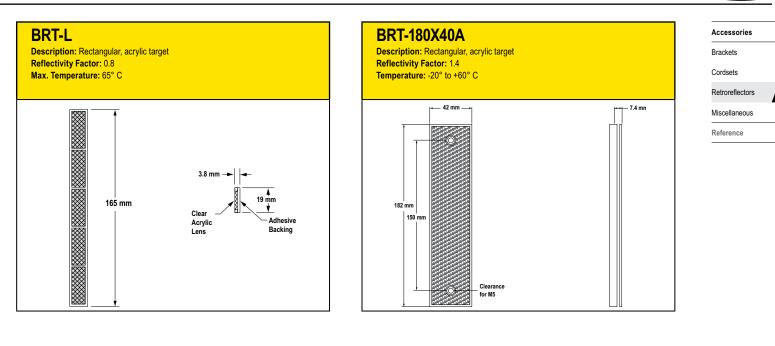
CORDSETS

RETROREFLECTORS

MISCELLANEOUS







Retroreflective Tape

NOTE: Sensing range and signal strength at any given sensor-to-target distance will vary due to target reflectivity and target area. A "Reflectivity Factor" is included for each target model to help predict sensor performance, relative to the excess gain curve plotted for target model BRT-3. Consider, also, target area when predicting performance. Changing to a high reflectivity reflector (like BRT-92X92C) may also extend sensor range and/or reduce the need for frequent reflector maintenance. A high reflectivity factor AND large surface area are needed for maximum range.

Reflectivity Factor	Maximum Temperature	Size	Model		Unit
	Temperature	0120	WOUCI		Om
0.7	60° C	75 x 75 mm	BRT-THG-3X3-10	10 per pack	
0.7	60° C	100 x 100 mm	BRT-THG-4X4-5	5 per pack	
0.7	60° C	216 x 280 mm	BRT-THG-8.5X11-2	2 per pack	
0.7	60° C	457 x 914 mm	BRT-THG-18X36	Single sheet	
0.7	60° C	25 mm wide	BRT-THG-1-100	2.5 m length	
0.7	60° C	50 mm wide	BRT-THG-2-100	2.5 m length	
0.7	60° C	75 mm wide	BRT-THG-3-100	2.5 m length	
0.07	175° C	25 mm wide	BRT-THT-100 [†]	2.5 m length	
0.8	60° C	50 x 50 mm	BRT-TVHG-2X2*	4 per pack	
0.8	60° C	203 x 254 mm	BRT-TVHG-8X10P [†]	1 per pack	

NOTE: Retroreflective material has a pressure-sensitive adhesive. For maximum adhesion, surfaces must be clean and dry before applying. For best results, use full size; target may be trimmed as necessary.

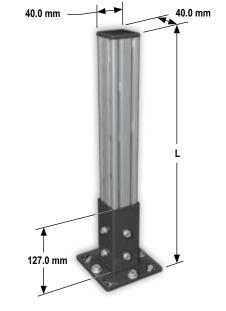
[†] These targets are not recommended for polarized retroreflective sensors.

* These are sealed micro-prism style pieces and may not be cut.

Suitable for use with Laser sensors, VS3 sensors and SME312LPC model sensors. Not suggested for close range (less than 102 mm) except with VS3 sensors.

MSA Stands

- · Supports emitter, receiver or corner mirror
- Available without stand base, for attaching to a surface
- · Assembles easily
- · Includes mounting hardware
- Provides mounting T-slots with center dimension of 20 mm





MSA Series Stands

Used With**	Stand Height (L)	Useable Stand Length	Model*	
EZ-SCREEN, PICO-GUARD Grids/Points, Mirrors, EZ-ARRAY,	616 mm	483 mm	MSA-S24-1	
MINI-ARRAY and High-Resolution MINI-ARRAY	1073 mm	940 mm	MSA-S42-1	More on next page

Available without a base by adding suffix NB to model number (example, MSA-S24-1NB).

** Adapter brackets EZA-MBK-2 (2 each) are required for mounting EZ-SCREEN Grid and Point emitters/receivers or SSM Series mirrors (ordered separately).

MSA Series Stands (cont'd)

Used With**	Stand Height (L)	Useable Stand Length	Model*
	1682 mm	1550 mm	MSA-S66-1
EZ-SCREEN, PICO-GUARD Grids/Points, Mirrors, EZ-ARRAY, MINI-ARRAY and High-Resolution MINI-ARRAY	2140 mm	2007 mm	MSA-S84-1
	2673 mm	2667 mm	MSA-S105-1
SFP12 Safety Points	1067 mm	940 mm	SFPA-AG12-1
SFP30 Safety Points	1067 mm	940 mm	SFPA-AG30-1

Available without a base by adding suffix NB to model number (example, MSA-S24-1NB).

Adapter brackets EZA-MBK-2 (2 each) are required for mounting EZ-SCREEN Grid and Point emitters/receivers or SSM Series mirrors (ordered separately). **

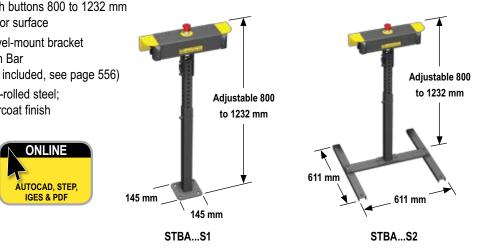
Run Bar Telescoping Stands

- · Locates touch buttons 800 to 1232 mm above the floor surface
- · Includes swivel-mount bracket to mount Run Bar (Run Bar not included, see page 556)
- · Made of cold-rolled steel; black powdercoat finish



Telescoping Stands

Used with	Description	Model
STB-VP6-RB1	 Floor-mounted telescoping stand Stationary base with 4 mounting holes in corners 	STBA-RB1-S1
STB-VP6-RB2		STBA-RB2-S1
STB-VP6-RB1	 Free-standing, telescoping stand Movable H-shaped floor base with mounting holes 560 mm apart 	STBA-RB1-S2
STB-VP6-RB2		STBA-RB2-S2





Accessories Brackets Cordsets Retroreflectors Miscellaneous

Reference

Adjustable Mounting Systems

- · Provides flexible mounting and positioning of sensors and lights
- Includes 3" and 6" column mounting kits for mounting area lights and backlights
- Features Bogen Arm and clamp for use with P4 and Pro sensors
- Offers 2" mounting knuckle assembly for spot lights







Adjustable Mounting Systems

Used With	Description	Model
	3" Column, Base, and Knuckle Kit	SMBPPK3
	6" Column, Base, and Knuckle Kit	SMBPPK6
	Mounting Bracket Knuckle	SMBPPK
Pro	3" Column	SMBPPKE3
P4 Vision Lights	6" Column	SMBPPKE6
, i i i i i i i i i i i i i i i i i i i	Mounting Bracket Base	SMBPPKB
	2" Mounting Knuckle Assembly	SMBPPLK
	Bogen Arm with Single Knob	SMBPPF1
	Bogen Arm Clamp	SMBPPFB

Elevated Use—Stand-off Pipe, Brackets and Adapters

	Description	Length	Model	Used With
	Thermoplastic Acetal adapter and cover (M30 to ½" NPSM/DN15)	_	SA-M30TE12	Connects TL50 to 1/2" NPSM/DN15 pipe
Q	Thermoplastic Acetal adapter and cover (M30 to ½" NPSM/DN15)	_	SA-M30E12	Connects K50L & K80L to 1/2" NPSM/DN15 pipe
	Stainless steel pipe (½" NPSM/DN15)	150 mm	SOP-E12-150SS	
		300 mm	SOP-E12-300SS	K50L K80L
•	Anodized aluminum pipe (1/2" NPSM/D15)	150 mm	SOP-E12-150A	TL50
1		300 mm	SOP-E12-300A	
	Thermoplastic Acetal mounting base (½" NPSM/DN15 to M30)	_	SA-E12M30	
	Stainless steel bracket for wall or other flat surfaces	_	SMBE12USS	SOP-E12-150A SOP-E12-300A SOP-E12-150SS SOP-E12-300SS

BANNER

Accessories Brackets Cordsets Retroreflectors Miscellaneous Reference

Elevated Use—Enclosure Mounts and Extensions

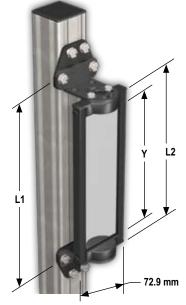
Description	Length	Model	Used With
Thermoplastic Acetal standoff with 30 mm mounting base for cabinet mounting or use with most 30 mm brackets	75 mm	SA-M30M30-75	K50L
Zinc coated, oversized right-angle legend plate for identification labels	_	SA-30RL55X93	SA-M30M30-75
Thermoplastic Acetal standoff with 22.5 mm mounting base for cabinet mounting	50 mm	SA-M22M22-50	K30L

Elevated Use—Hanging Bracket

Description	Length	Model	Used With
Zinc coated bracket with strain relief for mounting one device	_	SA-30RL55X93C	K50 Push Button VTB
Zinc coated bracket for mounting two devices	_	SA-30DRL55X93C	Sensors and indicators with 30 mm base or barrel mount

MSM Corner Mirrors

- · Compact for light-duty applications
- · Available in 12 lengths
- Decreases range by 8%
- · Rated 85% efficiency





MSM Corner Mirrors (shown with standard brackets and MSAMB** adapter bracket mounted on MSA stand)

MSM Corner Mirrors

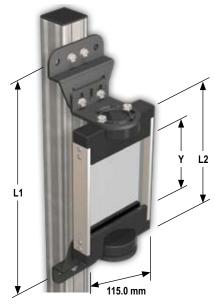
Reflective Area (Y)	Mounting Height (L1)*	ounting Height (L1)* Mirror Height (L2)	
165 mm	221 mm	191 mm	MSM4A
267 mm	323 mm	292 mm	MSM8A
356 mm	411 mm	381 mm	MSM12A
457 mm	513 mm	483 mm	MSM16A
559 mm	615 mm	584 mm	MSM20A
660 mm	716 mm	686 mm	MSM24A
762 mm	818 mm	787 mm	MSM28A
864 mm	919 mm	889 mm	MSM32A
965 mm	1021 mm	991 mm	MSM36A
1067 mm	1123 mm	1092 mm	MSM40A
1168 mm	1224 mm	1194 mm	MSM44A
1270 mm	1326 mm	1295 mm	MSM48A

* The mounting brackets may be inverted from the positions shown (flanges pointing "inward" instead of "outward," as shown). When this is done, dimension L1 decreases by 57 mm.

** MSAMB adapter bracket kit included with each MSA stand.

SSM Corner Mirrors

- · Robust for heavy-duty applications
- Extra wide for use with long-range optical safety systems
- Available in stainless steel for harsh applications
- Available in 20 lengths
- Rated 85% efficiency for SSM models and 50% on SSM-S models
- Decreases range by 8% for SSM models and 30% for SSM-S models





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E BA

SSM and SSM-S Corner Mirrors (shown with standard brackets and EZA-MBK-2** adapter bracket mounted on MSA stand)

SSM Glass Corner Mirrors

			Model	
Reflective Area (Y)	Mounting Height (L1)*	Mirror Height (L2)	Aluminum	Stainless Steel
100 mm	211 mm	178 mm	SSM-100	SSM-100-S
150 mm	261 mm	228 mm	SSM-150	SSM-150-S
200 mm	311 mm	278 mm	SSM-200	SSM-200-S
250 mm	361 mm	328 mm	SSM-250	SSM-250-S
375 mm	486 mm	453 mm	SSM-375	SSM-375-S
475 mm	586 mm	553 mm	SSM-475	SSM-475-S
550 mm	661 mm	628 mm	SSM-550	SSM-550-S
675 mm	786 mm	753 mm	SSM-675	SSM-675-S
825 mm	936 mm	903 mm	SSM-825	SSM-825-S
875 mm	986 mm	953 mm	SSM-875	SSM-875-S
975 mm	1086 mm	1053 mm	SSM-975	SSM-975-S
1100 mm	1211 mm	1178 mm	SSM-1100	SSM-1100-S
1175 mm	1286 mm	1253 mm	SSM-1175	SSM-1175-S
1275 mm	1386 mm	1353 mm	SSM-1275	SSM-1275-S
1400 mm	1511 mm	1478 mm	SSM-1400	SSM-1400-S
1475 mm	1586 mm	1553 mm	SSM-1475	SSM-1475-S
1550 mm	1661 mm	1628 mm	SSM-1550	SSM-1550-S
1675 mm	1786 mm	1753 mm	SSM-1675	SSM-1675-S
1750 mm	1861 mm	1828 mm	SSM-1750	SSM-1750-S
1900 mm	2011 mm	1978 mm	SSM-1900	SSM-1900-S

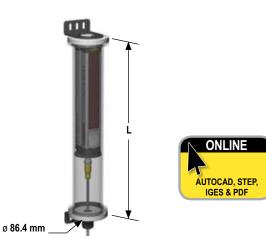
* The mounting brackets may be inverted from the positions shown (flanges pointing "inward" instead of "outward," as shown). When this is done, dimension L1 decreases by 58 mm.

** One EZA-MBK-2 adapter bracket kit required if used with a MSA stand.

NOTE: The total range decreases by approximately 8% per mirror.

Tubular Enclosures

- Available for EZ-ARRAY[™], MINI-ARRAY[®] or EZ-SCREEN[®] standard 14 & 30 mm
- Ideal for high-pressure washdown environments
- Made of clear FDA-grade polycarbonate tubing, with acetal end caps
- Includes stainless mounting brackets and hardware
- Rated NEMA 4X; IP67



Emitter/F	Receiver Model	Used With Emitter/Receiver		
EZ-SCREEN	EZ-ARRAY	Defined Area/Array Length	Enclosure Height (L)	Model
SLS150	EA5150	150 mm	439 mm	EZA-TE-150
SLS300	EA5300	300 mm	541 mm	EZA-TE-300
SLS450	EA5450	450 mm	744 mm	EZA-TE-450
SLS600	EA5600	600 mm	846 mm	EZA-TE-600
SLS750	EA5750	750 mm	1024 mm	EZA-TE-750
SLS900	EA5900	900 mm	1151 mm	EZA-TE-900
SLS1050	EA51050	1050 mm	1354 mm	EZA-TE-1050
SLS1200	EA51200	1200 mm	1455 mm	EZA-TE-1200
SLS1350	_	1350 mm	1608 mm	EZA-TE-1350
SLS1500	EA51500	1500 mm	1760 mm	EZA-TE-1500
SLS1650	-	1650 mm	1913 mm	EZA-TE-1650
SLS1800	EA51800	1800 mm	2065 mm	EZA-TE-1800

EZA-TE Tubular Enclosures

NOTE: Use of the enclosure affects the sensing range of the emitter/receiver used: when in pairs, range can be reduced by 50%.

MSA-TE Tubular Enclosures

	Used With				
Emitter/Receiver Model		Emitter/Receiver Array Length	Enclosure Height (L)	Model	
MINI-ARRAY	BMEL616A/BMRL616A	201 mm			
	BMEL632A/BMLR632A	201 11111	439 mm	MSA-TE-8	
High-Resolution MINI-ARRAY	MAHE6A/MAHR6A	233 mm			
	BMEL1216A/BMRL1216A	356 mm			
MINI-ARRAY	BMEL1232A/BMRL1232A	356 mm	541 mm	MSA-TE-12	
High-Resolution MINI-ARRAY	MAHE13A/MAHR13A	396 mm			
	BMEL1816A/BMRL1816A	505 mm			
MINI-ARRAY	BMEL1832A/BMRL1832A	505 mm	744 mm	MSA-TE-20	
High-Resolution MINI-ARRAY	MAHE19A/MAHR19A	559 mm			
	BMEL2416A/BMRL2416A	659 mm	040	NGA TE 04	
MINI-ARRAY	BMEL2432A/BMRL2432A	659 mm	846 mm	MSA-TE-24	
High-Resolution MINI-ARRAY	MAHE26A/MAHR26A	721 mm	947 mm	MSA-TE-28	

NOTE: Use of the enclosure affects the sensing range of the emitter/receiver used: when in pairs, range can be reduced by 50%.

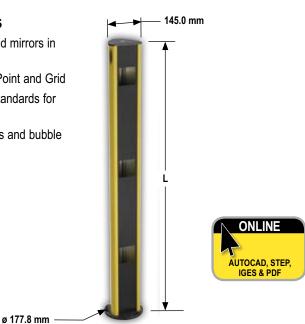
MSA-TE Tubular Enclosures (cont'd)

	Used With			
Emitter/Receiver Model		Emitter/Receiver Array Length	Enclosure Height (L)	Model
	BMEL3016A/BMRL3016A	040		
MINI-ARRAY	BMEL3032A/BMRL3032A	810 mm	1049 mm	MSA-TE-32
High-Resolution MINI-ARRAY	MAHE32A/MAHR32A	884 mm		
	BMEL3616A/BMRL3616A	- 963 mm		
MINI-ARRAY	BMEL3632A/BMRL3632A		1151 mm	MSA-TE-36
High-Resolution MINI-ARRAY	MAHE38A/MAHR38A	1046 mm		
	BMEL4216A/BMRL4216A	1115 mm		
MINI-ARRAY	BMEL4232A/BMRL4232A	1115 mm	1354 mm	MSA-TE-44
High-Resolution MINI-ARRAY	MAHE45A/MAHR45A	1212 mm		
	BMEL4816A/BMRL4816A	1007		
MINI-ARRAY	BMEL4832A/BMRL4832A	1267 mm	1455 mm	MSA-TE-48
High-Resolution MINI-ARRAY	MAHE51A/MAHR51A	1377 mm		

NOTE: Use of the enclosure affects the sensing range of the emitter/receiver used: when in pairs, range can be reduced by 50%.

EZA-S Protective Enclosures

- Provide rugged protection for sensors and mirrors in high-traffic areas
- Available for mirrors and EZ-SCREEN[®] Point and Grid
- Meets ANSI/RIA 15.06 and ISO 13855 standards for beam spacing
- Includes independently adjustable mirrors and bubble level to simplify alignment
- · Rotates up to 20°



EZA-S Protective Enclosure

EZA-S EZ-SCREEN® Protective Enclosures

Used With					
Emitter/Receiver Model	Emitter/Receiver Protected Area	Enclosure Height (L)	No. of Openings	Application Standard	Models
SC 4 200	900 mm	1543 mm	4	ANSI/RIA R15.06	EZA-S300
SG4-300	900 mm	1545 11111		ISO 13855	EZA-S300-M
CC 2 400	000	4000	2	ANSI/RIA R15.06	EZA-S400
SG3-400	800 mm	1238 mm	3	ISO 13855	EZA-S400-M

* Model numbers with suffix M include vertical mirrors for perimeter-guarding applications.

Model numbers with suffix M45 include two 45°-mounted mirrors for access-guarding applications.

NOTE: The rear-surfaced glass mirrors are rated at 85% efficiency per mirror and reduce maximum range by 8% per mirror.

Accessories Brackets Cordsets Retroreflectors Miscellaneous Reference

EZA-S EZ-SCREEN® Protective Enclosures (cont'd)

Usec	Used With				
Emitter/Receiver Model	Emitter/Receiver Protected Area	Enclosure Height (L)	No. of Openings	Application Standard	Models
00.0500	500				EZA-S500
SG2-500	500 mm	1035 mm	2	ISO 13855	EZA-S500-M
SP1	_				EZA-S500-M45
00.0.500	4000	1542 mm			EZA-\$533
SG3-533	1066 mm	1543 mm	3	ANSI/RIA R15.06	EZA-S533-M
00.0594	504				EZA-S584
SG2-584	584 mm	1238.2 mm 2	ANSI/RIA R15.06	EZA-S584-M	
SP1	-				EZA-S584-M45

Model numbers with suffix M include vertical mirrors for perimeter-guarding applications.

Model numbers with suffix M45 include two 45°-mounted mirrors for access-guarding applications.

NOTE: The rear-surfaced glass mirrors are rated at 85% efficiency per mirror and reduce maximum range by 8% per mirror.

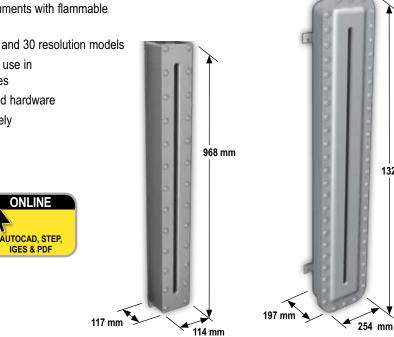
Explosion-Proof Enclosures

- · Protects light screen in environments with flammable gases, liquids or dust
- Available for EZ-SCREEN® 14 and 30 resolution models

ONLINE

IGES & PDF

- · Complies with UL and CSA for use in specific hazardous atmospheres
- · Includes mounting brackets and hardware
- · Reduces range by approximately 25% per emitter/receiver pair



Model ..-XPE-32 **Explosion-Proof Enclosure**

Model ..-XPE-43 **Explosion-Proof Enclosure**

1321 mm

Explosion-Proof Enclosures

Used With		
Model Family	Emitter/Receiver Defined Area	Model
EZ-SCREEN (14 and 30 mm Resolution)	450 to 600 mm	SS-XPE-32
EZ-SCREEN (14 and 30 mm Resolution)	750 to 1050 mm	SS-XPE-43

NOTE: Use of enclosure affects the sensing range of emitter/receiver used: when used in pairs, range can be reduced by 25%.

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Heated Enclosures

- Available for MINI-ARRAY[®] or High-Resolution MINI-ARRAY[®]
- · Protects emitter/receiver in outdoor environments
- · Includes humidistat and resistance wires to keep window free of condensation, snow or ice
- · Provides choice of stainless steel or aluminum housings

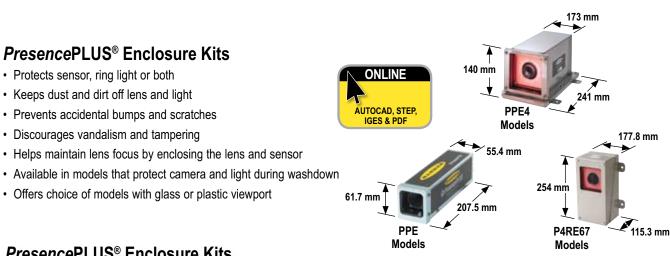


MINI-ARRAY® and High-Resolution MINI-ARRAY® Heated Enclosures

Material	Finish**	Array Length	Overall Enclosure/Height (L)	Clear Window Height	Model
Aluminum	Painted	133 to 1210 mm	1.7 m	1.5 m	BMHE4A/BMHL4G
Aluminum	Painted	1505 to 1514 mm	2.0 m	1.8 m	BMHE5A/BMHL5G
Aluminum	Painted	1810 to 1819 mm	2.2 m	2.0 m	BMHE6A/BMHL6G
Stainless Steel	Painted	133 to 1210 mm	1.7 m	1.5 m	BMHE4SS/BMHL4GSS
Stainless Steel	Painted	1505 to 1514 mm	2.0 m	1.8 m	BMHE5SS/BMHL5GSS
Stainless Steel	Painted	1810 to 1819 mm	2.2 m	2.0 m	BMHE6SS/BMHL6GSS
Stainless Steel	Non-painted	133 to 1210 mm	1.7 m	1.5 m	BMHE4SSN/BMHL4GSSN
Stainless Steel	Non-painted	1505 to 1514 mm	2.0 m	1.8 m	BMHE5SSN/BMHL5GSSN
Stainless Steel	Non-painted	1810 to 1819 mm	2.2 m	2.0 m	BMHE6SSN/BMHL6GSSN

* Enclosures require a power supply (see page 739).

** Standard color is Federal Safety Yellow (Federal Standard color# 23538). Contact Factory for other colors.



PresencePLUS[®] Enclosure Kits

Description	Used With	Model	
Heavy-duty stainless-steel enclosure kit-glass viewport; NEMA 6 rated	P4 (right-angle)	P4RE67-G	\sim
Heavy-duty stainless-steel enclosure kit-polycarbonate viewport; NEMA 6 rated	Ring Light	P4RE67-P	More on nex page

PresencePLUS® Enclosure Kits (cont'd)

Description	Used With	Model
Heavy-duty cold-rolled steel industrial protection kit-glass viewport; NEMA 1 rated	Pro Camera	PPE-G
Heavy-duty cold-rolled steel industrial protection kit-polycarbonate viewport; NEMA 1 rated	& Lens	PPE-P
Replacement viewport-glass	PPE-G	PPE-RG
Replacement viewport-polycarbonate	PPE-P	PPE-RP
Straight Mounting bracket		SMBPPES
Right-angle mounting bracket	PPE-P & PPE-G	SMBPPEA
Front mounting bracket		SMBPPEF
Heavy-duty stainless-steel enclosure kit-glass viewport; NEMA 4 rated	Pro Camera &	PPE4-G
Heavy-duty stainless-steel enclosure kit-polycarbonate viewport; NEMA 4 rated	Ring Light	PPE4-P

Lens Shields

- · Covers the lens of the emitter/receiver to prevent damage
- Available for the LX, EZ-ARRAY[™], MINI-ARRAY[®] and EZ-SCREEN[®]
- · Installs easily
- Made of rugged polycarbonate



EZ-ARRAY[™] & EZ-SCREEN[®] (14 & 30 mm Resolution) Lens Shields

		Used Wi	th	Lens Shield	
Installation*	EZ-ARRAY	EZ-SCREEN	Defined Area/Array Length	Length (L)	Model
Adhesive		SLS150		258 mm	EZS-150
Snap-on] _	313130		236 mm	EZSS-150
Adhesive	EA5300	SLS300	300 mm	368 mm	EZS-300
Snap-on	EA5300	SLS300	300 mm	346 mm	EZSS-300
Adhesive		SLS450	450 mm	518 mm	EZS-450
Snap-on	EA5450	SLS430	450 mm	496 mm	EZSS-450
Adhesive	EA5600	SLS600	600 mm	667 mm	EZS-600
Snap-on	- EA5000	3L3000	800 mm	645 mm	EZSS-600
Adhesive	EA5750	SLS750	750 mm	817 mm	EZS-750
Snap-on	- EAD/DU	SL3730	750 mm	795 mm	EZSS-750
Adhesive		SI S. 000	000 mm	967 mm	EZS-900
Snap-on	EA5900	SLS900	900 mm	945 mm	EZSS-900

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%.

* Adhesive models are polycarbonate with neoprene gasket. Snap-on models are constructed of copolyester.

Accessories Brackets Cordsets Retroreflectors Miscellaneous Reference

EZ-ARRAY[™] & EZ-SCREEN[®] (14 & 30 mm Resolution) Lens Shields (cont'd)

		Used Wi	Used With		
Installation* EZ-ARRAY	EZ-ARRAY	EZ-SCREEN	Defined Area/Array Length	Length (L)	Model
Adhesive	EA51050	SLS1050	1050 mm	1116 mm	EZS-1050
Snap-on	EA51050	3131030	1030 mm	1094 mm	EZSS-1050
Adhesive	EA51200	SLS1200	1200 mm	1266 mm	EZS-1200
Snap-on	LAJ1200	3231200	1200 1111	1244 mm	EZSS-1200
Adhesive	_	SLS1350	1350 mm	1416 mm	EZS-1350
Snap-on		SLS1350	1350 mm	1394 mm	EZSS-1350
Adhesive		SI S 1650	1650 mm	1715 mm	EZS-1650
Snap-on		SLS-1650	1650 mm	1693 mm	EZSS-1650
Adhesive	EA51500	SLS1500	1500 mm	1565 mm	EZS-1500
Snap-on	EA51500	SLS1500	1500 mm	1543 mm	EZSS-1500
Adhesive	EA51800	CL C 1900	1800 mm	1865 mm	EZS-1800
Snap-on	EAJ 1800	SLS1800		1843 mm	EZSS-1800
Snap-on	EA52100	—	2100 mm	2144 mm	EZSS-2100
Snap-on	EA52400	_	2400 mm	2444 mm	EZSS-2400

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%.

* Adhesive models are polycarbonate with neoprene gasket. Snap-on models are constructed of copolyester.

MINI-ARRAY® Lens Shields

		Used With			
Installation	Emit	ter/Receiver Model	Array Length	Length (L)	Model
		BMEL1216A/BMRL1216A	286 mm	341 mm	MSS12
		BMEL1232A/BMRL1232A	295 mm	- 341 mm	WI3312
		BMEL2416A/BMRL2416A	591 mm	- 643 mm	MSS24
Adhesive	MINI-ARRAY	BMEL2432A/BMRL2432A	600 mm		WI3324
Adhesive		BMEL3616A/BMRL3616A	895 mm		MSS36
		BMEL3632A/BMRL3632A	905 mm	940 11111	W13530
		BMEL4816A/BMRL4816A	1200 mm	1253 mm	MSS48
		BMEL4832A/BMRL4832A	1210 mm	1203 mm	1113340

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%.

* Other lens shield lengths are available, contact factory at 1-888-373-6767.

EZ-SCREEN® LP (14 & 25 mm Resolution) Lens Shields

	Used With		
Installation*	Emitter/Receiver Model	Lens Shield Length (L)	Model
	SLP270	270 mm	LPSS-270
	SLP410	410 mm	LPSS-410
	SLP550	550 mm	LPSS-550
Snap-on	SLP690	690 mm	LPSS-690
	SLP830	830 mm	LPSS-830
	SLP970	970 mm	LPSS-970
	SLP1110	1110 mm	LPSS-1110

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%.

* Adhesive models are polycarbonate with neoprene gasket. Snap-on models are constructed of copolyester.

EZ-SCREEN[®] LP (14 & 25 mm Resolution) Lens Shields (cont'd)

	Used With		
Installation*	Emitter/Receiver Model	Lens Shield Length (L)	Model
	SLP1250	1250 mm	LPSS-1250
	SLP1390	1390 mm	LPSS-1390
Snap-on	SLP1530	1530 mm	LPSS-1530
	SLP1670	1670 mm	LPSS-1670
	SLP1810	1810 mm	LPSS-1810

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%. * Adhesive models are polycarbonate with neoprene gasket. Snap-on models are constructed of copolyester.

EZ-SCREEN[®] Grids and Points Lens Shields–Adhesive Backed

Туре	Lens Shield Length (L)	Emitter/Receiver Model	Emitter/Receiver Protected Height	Model
Point	149 mm	SP.1	-	EZS-149
	684 mm	SG2-500	500 mm	EZS-684
	768 mm	SG2-584	584 mm	EZS-768
Grid	984 mm	SG3-400	800 mm	EZS-984
	1251 mm	SG3-533	900 mm	EZS-1251
	1084 mm	SG4-300	1066 mm	EZS-1084

Polycarbonate construction with neoprene gasket

EZ-SCREEN® Type 2 Lens Shields–Adhesive Backed

Use	d With		
Emitter/Receiver Model	Emitter/Receiver Defined Area	Lens Shield Length (L)	Model
LS230-150	150 mm	210 mm	LSS-150
LS230-300	300 mm	360 mm	LSS-300
LS230-450	450 mm	510 mm	LSS-450
LS230-600	600 mm	660 mm	LSS-600
LS230-750	750 mm	810 mm	LSS-750
LS230-900	900 mm	959 mm	LSS-900
LS230-1050	1050 mm	1109 mm	LSS-1050
LS230-1200	1200 mm	1558 mm	LSS-1200
LS230-1350	1350 mm	1708 mm	LSS-1350
LS230-1500	1500 mm	1858 mm	LSS-1500

Polycarbonate construction with neoprene gasket.

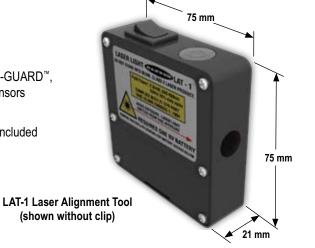
LX Lens Shields

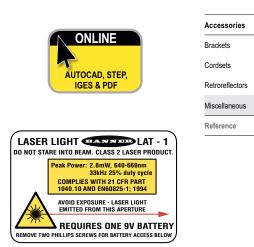
	Used With	Lens Shield		
Installation	Emitter/Receiver Model Array Length		Length (L)	Model
	LX3 models	67 mm	98.3 mm	LXS3
Adhesive	LX6 models	143 mm	174.5 mm	LXS6
	LX12 models	295 mm	326.9 mm	LXS12

NOTE: When shields are installed on both the emitter and receiver, maximum operating range is reduced by 20%.

Laser Alignment Tools

- Simplifies the alignment of any emitter/receiver pair
- Available for EZ-SCREEN[®], PICO-GUARD[™], LT7, and 18 and 30 mm barrel sensors
- · Includes a built-in bubble level
- Uses one 9-volt battery, which is included (some models)





Laser Alignment Tools

	Used With		Supply Voltage	LAT-1 with Clip Kit	Clip w/Target*
EZ-SCREEN Grid or Po	bints and PICO-GUARD Grids			LAT-1-HD	EZA-LAT-1
EZ-SCREEN 14 & 30 mm Resolution			9V battery for 20	LAT-1-SS	EZA-LAT-2
EZ-SCREEN LP 14 & 2	5 mm Resolution		hours of continuous use	LAT-1-LP	LPA-LAT-1
EZ-SCREEN Type 2				LAT-1-LS	LSA-LAT-1
	pints, PICO-GUARD Grids, EZ-SCREE 5 mm Resolution and EZ-SCREEN Ty		9V battery for 20	LAT-1	-
PICO-GUARD SFP12 S	Safety Points		hours of continuous use	LAT-1-SFP12	SFA-LAT-12
PICO-GUARD SFP30 \$	Safety Points			LAT-1-SFP30	SFA-LAT-30
0	Description	Used With	Supply Voltage	М	odel
LAT-2 shown with LT7	 Allows for long distance alignment greater than 50 m Clip-on attachment for sensor 	LT7	_	LAT-2	
	 Enables easy sensor alignment at long distances Kit includes one SMB1812 bracket and M12 laser emitter (Class 2 visible red laser) Clip-on attachment for 18 mm threaded barrel sensors 	18 mm threaded barrel sensors	10 to 30V dc	LA	T1812
	 Enables easy sensor alignment at long distances Kit includes one SMB3012 bracket and M12 laser emitter (Class 2 visible red laser) Clip-on attachment for 30 mm threaded barrel sensors 	30 mm threaded barrel sensors	10 to 30V dc	LAT3012	

* LAT-1 purchased separately.

BEAM-TRACKER[™] Alignment Tool

The BEAM-TRACKER is a low-cost, wireless, battery-operated, and completely self-contained photoelectric diagnostic sensor. It is a quick and simple way to evaluate photoelectric system performance. It receives light from all modulated photoelectric emitters and transmits light to receivers to check the system operation. It has a built-in frequency emitter that will be detected by any Banner photoelectric receiver, as well as by those of most other photoelectric manufacturers. It is a valuable tool for locating the center of the beam when installing long-range opposed-mode photoelectric sensor pairs and for locating sources of severe EMI and RFI noise.

Supply Voltage	Beam	Construction	Model
9V battery for 10 hours of continuous use	70 kHz infrared	Cycolac [®] T case	BT-1

Apertures and Aperture Kits

Opposed-mode sensors may be fitted with apertures which narrow or shape the effective beam of the sensor to more closely match the size of profile of the object to be sensed. A common example is the use of "line" or "slit" type aperture when wire or thread is being sensed.

Aperture Description	Units	Model	Product	Used With
Circular, 0.5 mm dia.	6	APQS18-020		
Circular, 1.0 mm dia.	6	APQS18-040		
Circular, 2.5 mm dia.	6	APQS18-100		
Horizontal, slotted, 0.5 x 6.4 mm	6	APQS18-020H		
Horizontal, slotted, 1.0 x 6.4 mm	6	APQS18-040H		QS18
Horizontal, slotted, 2.5 x 6.4 mm	6	APQS18-100H		Opposed-mode
Vertical, slotted, 0.5 x 12.7 mm	6	APQS18-020V		
Vertical, slotted, 1.0 x 12.7 mm	6	APQS18-040V		
Vertical, slotted. 2.5 x 12.7 mm	6	APQS18-100V		
Kit with 2 of each aperture	18	APQS18-DVHX2		
Circular, 0.5 mm dia.	2	APQ20-0.5		
Circular, 1 mm dia.	2	APQ20-1		
Circular, 2 mm dia.	2	APQ20-2		
Vertical, slotted, 0.5 mm	2	APQ20-0.5V		Q20 Opposed-mode
Vertical, slotted, 1 mm	2	APQ20-1V		
Vertical, slotted, 2 mm	2	APQ20-2V		
Kit with 2 of each aperture	12	APK-Q20		
Circular, 0.5 mm dia.	20	AP31-020		
Circular, 1.0 mm dia.	20	AP31-040		
Circular, 2.5 mm dia.	20	AP31-100		
Horizontal, slotted, 0.5 x 6.4 mm	20	AP31-020H		
Horizontal, slotted, 1.0 x 6.4 mm	20	AP31-040H		
Horizontal, slotted, 2.5 x 6.4 mm	20	AP31-100H		MINI-BEAM
Horizontal, slotted, 5.1 x 6.4 mm	20	AP31-200H		Opposed-mode
Vertical, slotted, 0.5 x 12.7 mm	20	AP31-020V		
Vertical, slotted, 1.0 x 12.7 mm	20	AP31-040V		
Vertical, slotted, 2.5 x 12.7 mm	20	AP31-100V		
Vertical, slotted, 5.1 x 12.7 mm	20	AP31-200V		
Kit with 2 of each aperture	22	AP31-DVHX2		

BANNER

Accessories Brackets Cordsets Retroreflectors Miscellaneous Reference

Apertures and Aperture Kits (cont'd)

Aperture Description	Units	Model	Product	Used With
Kit includes 3 round apertures of: 0.5, 1.0 & 2.5 mm dia.	3	AP18SC*	000000	S18 & M18
Kit includes 3 rectangular apertures of: 0.5, 1.0 & 2.5 mm dia.	3	AP18SR*		S18 & M18
Kit includes 3 round apertures of: 0.5, 1.0 & 2.5 mm dia.	3	AP18SCN*		T18 & YM18
Kit includes 3 rectangular apertures of: 0.5, 1.0 & 2.5 mm dia.	3	AP18SRN*		T18 & TM18
* Kits include Teflon [®] FEP [®] lens, o-ring and thread-	on housing].		
Kit with glass lens to protect plastic sensor lens from chemical environments	1	APG18S	000	S18, M18, T18 & TM18
Circular, 0.5 mm dia.	10	APQ125		
Circular, 1.0 mm dia.	10	APQ12-1		
Circular, 1.5 mm dia.	10	APQ12-1.5		
Circular, 2.0 mm dia.	10	APQ12-2	• • • •	
Horizontal, slotted, 0.5 mm dia.	10	APQ125H		Q12
Horizontal, slotted, 1.0 mm dia.	10	APQ12-1H		Opposed-mode
Vertical, slotted, 0.5 mm dia.	10	APQ125V		
Vertical, slotted, 1.0 mm dia.	10	APQ12-1V		
Protective jacket, 4 mm square	10	APQ12-4S		
Kit containing 2 of each aperture	18	APKQ12		
Circular, 2 openings, 0.5 & 1.0 mm dia.	2	APVS2-0204		
Circular, 2 openings, 1.5 and 2.0 mm dia.	2	APVS2-0608	a · a · a	VS2
Horizontal (1) and vertical (1), slotted, 0.5 mm wide	2	APVS2-02R	<u> </u>	Opposed-mode
Horizontal (1) and vertical (1), slotted, 1.0 mm wide	2	APVS2-04R	alo alo	
Circular, 1.0 mm dia.	6	APQS30-040		
Circular, 2.5 mm dia.	6	APQS30-100	_	
Circular, 5 mm dia.	6	APQS30-200	$\overline{\bullet} \ \overline{\bullet} \ \overline{\bullet}$	
Horizontal, slotted, 1 x 12 mm	6	APQS30-040H		
Horizontal, slotted, 2.5 x 12 mm	6	APQS30-100H		QS30
Horizontal, slotted, 5 x 12 mm	6	APQS30-200H		Opposed-mode
Vertical, slotted, 1 x 17 mm	6	APQS30-040V		
Vertical, slotted, 2.5 x 17 mm	6	APQS30-100V		
Vertical, slotted, 5 x 17 mm	6	APQS30-200V		
Kit with 2 of each aperture	18	APQS30-DVHX2		

* Teflon[®] is a registered trademark of Dupont[™].

Ultrasonic Wave Guides

Guide attaches to 18 mm threaded barrel of ultrasonic sensors to focus ultrasonic sensing beam.

Size	Style	Model	Used With
5.0 mm inside dia.	Barrel	UWG18-5.0	QS18U
6.4 mm inside dia.	Barrel	UWG18-6.4	S18U

Replacement Lens Assemblies

Lens assemblies are field-replaceable. In addition, some lenses may be used to convert from one sensing mode to another, or to change the sensing range of a particular sensor. The possible conversions are listed in the table below.

Replacement Lens for	Possible Sensing Mode or Range Changes	Model	Used With
LVAG	Change LV to LVAG	UC-300AG	
W and DBZ	Change D to DBZ and F to DBZ	UC-300BZ	
C, CV and CVG	Change CV2 to CV	UC-300C.7	
C2 and CV2	Change CV to CV2	UC-300C2	
E and R	-	UC-300E	
EL and RL	Extend range of E/R	UC-300EL	
EPD	-	UC-300EPD	MINI-BEAM
F and FV	Change D to F and DBZ to F	UC-300F	_
FP (old style)	_	UC-300FP	
FP	-	UC-300FP2	
LV and D	Change F to D, LVAG to LV and DBZ to D	UC-300L	
LP	-	UC-300LP	
RPD	_	UC-300RPD	
E, R, DL, DX and LV		UC-45L	
LL		UC-45LL	
LLP		UC-45LLP	
LP		UC-45LP	
D	N/A	UC-45D	Q45
F and FV		UC-45F	
FP		UC-45FP	
CV		UC-45C	
CV4		UC-45C4	
CV, CVB and CVG		OUC-C	
D		OUC-D	
F, FAC, FV, FVB, FVG, FX, EF and RF	N/A	OUC-F	
FP, FPB and FPG	N/A	OUC-FP	OMNI-BEAM
DX, LV, E and R		OUC-L	
LVAG and LVAGC		OUC-LAG	
R58E	N/A	UC-R55	R58E

Portable Demo Box

The Portable Demo Box is used to power dc self-contained photoelectric sensors for testing purposes. It is battery-powered and features bicolor LEDs which indicate sensor output status and output type (NPN or PNP). It is designed for a 4-pin Euro-style connector, but cable adapters are available to convert to Pico-style or Mini-style connectors. A 4-pin wiring barrier is mounted on the top of the box to allow connection of cabled dc sensors.

Supply Voltage	Cable Type	Model	Cable Adapters
3 - 9V battery	4-pin Euro	DBQ5	Euro-to-Pico p/n 39536 Euro-to-Mini p/n 39537

Test power supply is a 1 amp power supply used to power P4 sensors and lighting for proving an application without integration into a control panel.

Input	Input	Trigger Option	Model	Used With	Cordsets
100-240V ac	North America (AC plug)	24V dc NPN Sensor Continuous pulse Single pulse	P4D1	P4 Vision Lighting	Retroreflectors Miscellaneous Reference

A-GAGE® MINI-ARRAY® Series Power Supplies for Heated Enclosures

	Used With	Primary	Secondary	Models
	Two BMHE4 Enclosures	105 to 130V ac	23V ac	BMHPS4
	Two BMHE5 Enclosures	105 to 130V ac	27V ac	BMHPS5
	Two BMHE6 Enclosures	105 to 130V ac	35V ac	BMHPS6
	One BMHE4 Enclosure	105 to 130V ac	23V ac	BMHPS14
	One BMHE5 Enclosure	105 to 130V ac	27V ac	BMHPS15
-	One BMHE6 Enclosure	105 to 130V ac	35V ac	BMHPS16

Continuous Power Supplies

12 or 24V dc power supplies provide power to dc sensors, safety products and specialty lights.

	Input	Input Cord	Outputs	Output Cable	Model	Used With
T	100-240V ac 50/60 Hz	-	24V dc @ 4 A max.	_	PSDINA-24-4 (DIN-rail mountable)	dc Sensors Vision Lights
	115/230V ac, 50-60 Hz	_	24V dc (22.5-28.5V dc adj.) @ 2.5 A (60 W)	_	PSDINA-24* (DIN-rail mountable)	Safety products requiring a SELV rating (EN 60950)

* These products are not stocked and are non-returnable.

USB Serial Adapter

	Description	Power	Model	Used With
9	USB to RS-485 serial adapter with integral communication cordset and USB cable for advanced configuration with a PC.	USB Cable	EZA-USB485-01	EZ-ARRAY
~	USB to RS-485 serial adapter with integral communication cordset and USB cable for easy configuration of a single sensor or a network of sensors.	USB Cable	INTUSB485-LH	LH
and the second second	USB to RS-485 serial adapter for advanced configuration with a PC. NOTE: Communication cordset ordered separately.	USB Cable	INTUSB485-1	EZ-ARRAY



Accessories Brackets

Power Supplies and Interface Modules The power supplies provide a low-cost interface between ac power supply and dc-operated sensors. They can source up to 100 milliamps. All models are available with integral TEACH push button and remote TEACH function. The interface module is a passive module that allows additional status indicators to be located in the user's control cabinet. It provides remote indication and TEACH capability.

Description	Sensor Input	Input Supply	Sensor Supply	Models
	NPN	24V ac		
Power Supply	PNP	24V ac	- 15V dc	PS24-1P
e/m relay output, status lights, and TEACH button	NPN			PS115-1N
	PNP	115V ac		PS115-1P
Passive Interface Module Status lights and TEACH button	_	10-30V dc	_	SIM-525T

Sensor Interface Modules

Low-cost modules provide a dc powered interface for sensors.

	Input	Outputs	Connections	Model	Used With
			Two 13-pin Terminals	PPSIM-NT	
	10-30V dc	Current Sinking (NPN)	One 13-pin Terminals One DB-15 Connector	PPSIM-NC	PresencePLUS P4
E CON		10-300 ac	Current Sourcing (DND)	Two 13-pin Terminals	PPSIM-PT
		Current Sourcing (PNP)	One 13-pin Terminals One DB-15 Connector	PPSIM-PC	
	10-30V dc	Current Sinking (NPN)/ Current Sourcing (PNP)	Two 13-pin Terminals	IVUSIM	iVu

Light Interface Modules

Low-cost interface module allows strobe operation of Banner vision lighting with any vision sensor or system.

Input	Strobe Output	Model	Used With
24V dc	5V @ 10 mA max.	PPLIM	Vision lighting

EZ-LIGHT[™] Controllers

· Manually operated controllers for Andon, call-for-parts and machine status indication

· Toggle switch model can control up to 5 indicators simultaneously

	Description	Switch Function	Supply Voltage	Model	Used With
	5 toggle switches	ON-OFF-FLASH	00)/ 4	LC80T	EZ-LIGHT indicators with
康蘭	12-position rotary switch	UN-UT-TEAST	30V dc	LC80R	PNP input

• Provides AC power for up to three receivers or two cascaded emitter/receiver pairs, with external device monitoring (EDM) available. • Supplies +24V dc power at 0.7 amps (16.8 W max. power) and accepts input voltages from 100-250V ac (50-60 Hz).

	Safety Outputs	EDM	Emitter/ Receiver Connection	AC Power Connection	Output and EDM Connections	Model	Used with				
	3 NO	Selectable 1- or 2-Channel		Hard-wired	Hard-wired	EZAC-R9-QE8	EZ-SCREEN				
	2 NO & 1 NC	or no EDM						Hard-wired	Hard-wired	EZAC-R11-QE8	
· Internet	1 NO & 1 SPDT	1-Channel	8-Pin M12/Euro QD	3-Pin Mini QD	8-Pin Mini QD	EZAC-R15A-QE8-QS83					
CORDSETS	1 NO & 1 NC				3-Pin Mini QD	5-Pin Mini QD	EZAC-R8N-QE8-QS53				
PAGE 679	2 NO	Power Monitoring		3-Pin Mini QD	5-Pin Mini QD	EZAC-R10N-QE8-QS53					

AC Emitter Interface Boxes

AC Emitter/Receiver Interface Boxes

• Provides AC power for up to four emitters, with external device monitoring (EDM) available.

• Supplies +24V dc power at 0.7 amps (16.8 W max. power) and accepts input voltages from 100-250V ac (50-60 Hz).

	Emitter Connection	AC Power Connection	Model	Used with
	8-Pin M12/Euro QD	Hard-wired	EZAC-E-QE8	• EZ-SCREEN SLSEQ8 (without Test input) • EZ-SCREEN SLPE
· Mital	5-Pin M12/Euro QD	Hard-wired	EZAC-E-QE5	• EZ-SCREEN SLSEQ5 (with Test input)
	8-Pin M12/Euro QD	3-Pin Mini QD	EZAC-E-QE8-QS3	• EZ-SCREEN SLSEQ8 (without Test input) • EZ-SCREEN SLPE
PAGE 685	5-Pin M12/Euro QD	5-Pin Mini QD	EZAC-E-QE5-QS5	• EZ-SCREEN SLSEQ5 (with Test input)

NC = Normally Closed, NO = Normally Open

AC Interface Box Specifications

Visit bannerengineering.com for detailed specifications

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Accessories

Brackets

Cordsets Retroreflectors Miscellaneous

Reference

Mechanically Linked Contactors*

Provides an additional 10 or 18 amp carrying capability to any safety system.

Coil Voltage	Contacts	Contact Rating	Dimensions (h x w x l)	Model	Used With
120V ac		10 amps	57 x 44 x 58 mm	11-BG00-31-A12060	• EZ-SCREEN • PICO-GUARD
24V dc	3 NO & 1 NC	10 amps (thermal)	57 x 44 x 58 mm	11-BG00-31-D-024	• SC22-3/-3E
120V ac		18 amps**	80 x 44 x 80 mm	BF1801A-12060	
24V dc	3 NO & 1 NC	18 amps** (inductive)	80 x 44 x 80 mm	BF1801L-024	

NC = Normally Closed, NO = Normally Open, minimum switching current (power): 5 mA @ 17V dc (85 mw)

* One Arc Suppressor is needed for each relay across the coil (see below).

** NC contact is rated at 10 amps

Auxiliary Contacts for Mechanically Linked Contactors

Adds contacts to mechanically linked contactors.

	Contacts	Positively Guided	Model	Used With
100	4 NO	No (Aux. only)	11-BGX10-40	11-BG Series
	3 NO	Yes	11-G484-30	BF Series

NC = Normally Closed, NO = Normally Open

Suppressors for Mechanically Linked Contactors

Extends the life of the actuating device—such as a light screen or control module—that uses a mechanically linked contactor.

Voltage	Model	Used With
48V dc	11-BGX77-048	11-BG00-31-D024
125-240V ac	11-BGX77-240	11-BG00-31-A12060
48V dc	11-G318-48	BF1801L-024
125-240V ac	BFX77-240	BF1801A-12060

NC = Normally Closed, NO = Normally Open

BANNER

Models Accessories Brackets Cordsets Cordsets Retroreflectors Work Light • Work Light Strip • Work Light Area See page 403

EZ-LIGHT[™] Indicators



Indicator Lamps

• Indicates whether a switch is open or closed

Available in red or green, 120V ac or 24V ac/dc

	Supply Voltage	Lamp Color	Thread	Models	Used With
_	24V ac/dc	- Red	- M20 x 1.5	SI-PL3T-R	
	120V ac	Reu		SI-PL3A-R	SI-LS42 Salety Interlock Switches SI-QM100 Safety Interlock Switches RP-LS42 Rope Pull Switches
	24V ac/dc	- Green		SI-PL3T-G	RP-QM72/QMT72 Rope Pull Switches
T	120V ac			SI-PL3A-G	• RP-RM83 Rope Pull Switches • RP-QM90 Rope Pull Switch

Muting Lamps

• Indicates when muting is active for optical safety systems with a muting module.

Uses a solid-state LEDs light, eliminating the need to replace bulbs.

	Supply Voltage	Lamp Color	Overall Height	Models	Used with
Ē	18-30V dc or 24V ac	Red, Yellow, Green	142.6 mm	TL50GYRQ	PICO-GUARD EZ-SCREEN
		Yellow	- 61.2 mm	TL50YQ	Muting Modules
		White		TL50WQ	
Ser.	+24V dc	Red Green Yellow (Amber)	Ø 18 mm	M18RGR5PNQ	
	24V ac/dc	Amber	- 383 mm	SSA-ML-A	
	24V dt/ut	White (clear)		SSA-ML-W	