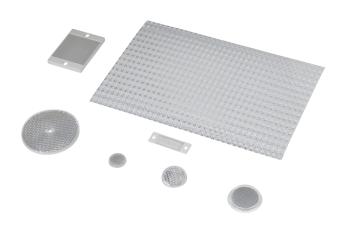
Reflectors

RL series reflectors for polarized reflective photoelectric sensors (all models)

- Suitable for use with polarized light photoelectric sensors
- Shapes and sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- Single hole, dual hole and self-adhesive mounting types available
- Single and 10-packs available

Installation notes

- Keep the reflector surface clean to ensure peak detection performance. This is especially true when the maximum sensing range is being used. Clean using a damp cloth.
- When selecting a reflector, it is important to consider the ambient conditions it will be exposed to. Dusty or high humidity conditions may reduce the sensing range as much as 90%.
- Reflectors should be positioned at a 90° angle to the optical axis with a tolerance of $\pm 15^\circ$.



Specifications								
Model	Price	Quantity	Dimensions	Degree of Protection	Mounting	Materials		
RL102		10 per pack	Ø25mm					
RL102-1		1 per pack	[0.98 in]					
RL103		10 per pack	Ø34.5mm		Customer-supplied			
RL103-1		1 per pack	[1.36 in]		adhesive or other mounting method required			
RL104		10 per pack	Ø46mm					
RL104-1		1 per pack	[Ø1.81 in]					
RL105		10 per pack	90 x 40mm [3.54 x 1.58 in]		two Ø4.3 mm holes	Reflective face: PMMA Polymethylmethacrylate		
RL105-1		1 per pack	[3.54 x 1.58 in]		two p4.5 mm notes	Reflective face: PMMA Polymethylmethacrylate (acrylic); base material: ABS (Acrylonitrile-butadiene-styren)		
RL106G		10 per pack	182 x 42mm [7.17 x 1.65 in]		two Ø6 mm holes			
RL106G-1		1 per pack	[7.17 x 1.65 in]		two bo min notes			
RL110		10 per pack	Ø84mm		one Ø5 mm hole			
RL110-1		1 per pack	[3.31 in]	IEC IP67	one 25 mm noie			
RL116		10 per pack	41 x 60mm		two M3 holes			
RL116-1		1 per pack	[3.54 x 2.36 in]		two IVIO Holes			
RL100DA4		1 per pack	200 x 300mm [7.87 x 11.81 in]			Paper (Acrylic tape with micro prism)		
RL100DC4		1 per pack	50 x 300mm [1.97 x 11.81 in]		Self-adhesive			
RL100DQ1		1 per pack	100 x 100mm [3.94 x 3.94 in]					
RL111G		10 per pack	22.5 x 47mm					
RL111G-1		1 per pack	[0.89 x 21.85 in]		two M3 slots	Reflective face:		
RL112G		10 per pack	19 x 73mm					
RL112G-1		1 per pack	[0.75 x 2.87 in]			Reflective face: PMMA Polymethylmethacrylate (acrylic); base material: ABS (Acrylonitrile-butadiene-styren		
RL113G		10 per pack	51.4 x 60.3mm [2.02 x 2.37 in]		two M4 slots			
RL113G-1		1 per pack						

Reflectors

RL series reflectors for polarized reflective laser photoelectric sensors (FALN series)

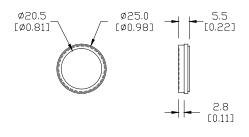
- Suitable for use with polarized light laser photoelectric sensors
- Sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- Single and 5-packs available

Specifications Specification Specif									
Model	RL201	RL201-1	RL203	RL203-1	RL204	RL204-1			
Price									
Quantity (per package)	5	1	5	5 1		1			
Dimensions	60mm x 82mm 19mm x 60mm 2.36 in x 3.23 in 0.75 in x 2.36 in				20mm x 32mm 0.80 in x 1.26 in				
Degree of Protection 1			IEC	IP67					
Mounting	two Ø 0.4 mm holes two Ø 0.4 mm holes two Ø 0.3 mm h					mm holes			
Materials	Acrylic/polycarbonate								
1 Not recommended for appli	1 Not recommended for applications involving moist air environments or water immersion.								

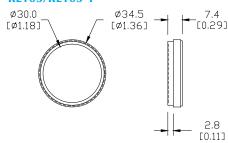
Dimensions

mm [inches]

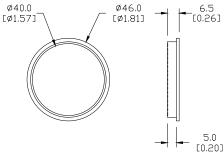
RL102/RL102-1



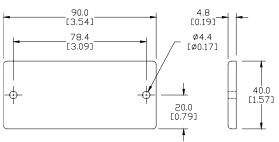
RL103/RL103-1



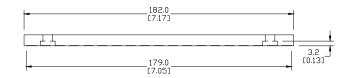
RL104/RL104-1

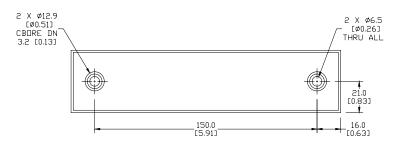


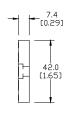
RL105/RL105-1



RL106G/RL106G-1





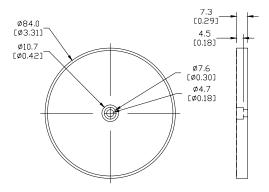


Reflectors

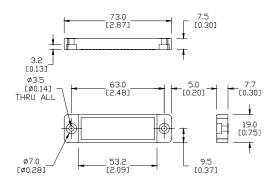
Dimensions

mm [inches]

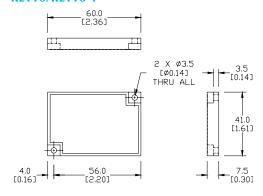
RL110/RL110-1

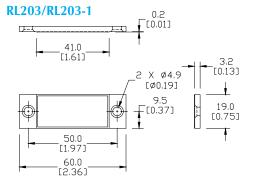


RL112G/RL112G-1

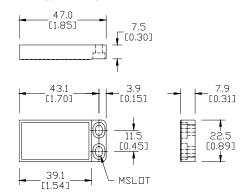


RL116/RL116-1

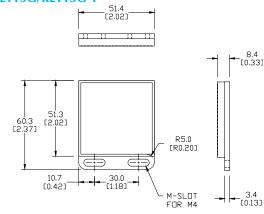




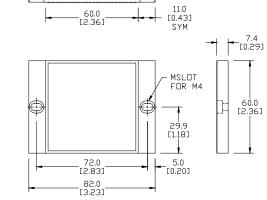
RL111G/RL111G-1

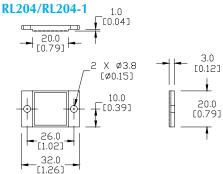


RL113G/RL113G-1



RL201/RL201-1





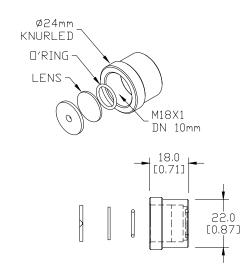
Shutters and Adapters

ST0S1 through ST0S8 shutters for M18 (18 mm) through-beam sensors (SSE / SSR)

- Reduces the emitted beam, allowing the detection of small targets
- Shutter consists of an aluminum cap and aperture with an o-ring and glass lens, which can screw onto the optical head of either the emitter or receiver

Sensing Distance (when used with SSE / SSR Model photoelectric switches)								
Model	STOS1	STOS2	STOS4	STOS6	STOS8			
Price								
Ø x shutter (mm)	1	2	4	6	8			
Distance (m) object (mm)	N/A N/A	N/A N/A	1.5 2	3.5 3	6.5 4			
Table shows sensi	na distance	e and minir	nal detecta	ble obiect.				

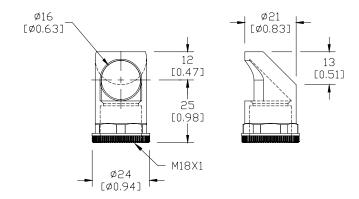




ST03 right-angle M18 (18 mm) beam adapter

Beam Adapters							
Part Number	Price	Description					
ST03		For use with M18 retroreflective and through-beam photoelectric switches (not for use with diffuse reflection sensors). Allows 90° light detection using an internal mirror set at 45° to the optical axis. Sensitivity loss is about 20-30%.					





ST12A axial bracket

For mounting M12 (12mm) sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam angle adapter sensors.



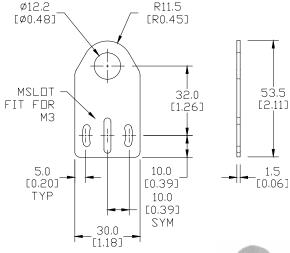
Brackets						
Part Number	Price	Description				
ST12A		Metal axial bracket for 12mm sensors, 1/pk				
ST12A7W		316L stainless steel axial bracket for 12mm sensors, 1/pk				

ST12C right-angle bracket

Angular mounting bracket for use with M12 (12mm) sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for axial sensors.



Brackets					
Part Number	Price	Description			
ST12C		Metal right angle bracket for 12mm sensors, 1/pk			
ST12C7W		316L stainless steel right angle bracket for 12mm sensors, 1/pk			



ST18A axial bracket

Mounting bracket for M18 (18mm) sensors. Has two mounting holes (use 4mm screws) and allows the rotation of an optical axis for right-beam angle adapter sensors.



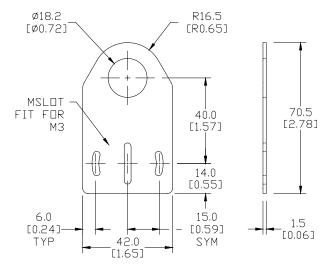
Ø12.2	R11.5
[Ø0.48]	(R0.45)
[90.40]	26.5 15.0 [1.04] [0.59]
MSLOT	20.0
FIT FOR	[0.79] 30.0
M3	[1.18] 90°
5.0 [0.20] TYP 30.0 [1.18]	10.0 [0.39] 1.5 SYM [0.06]

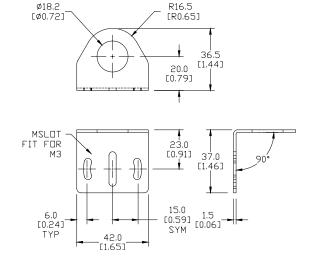
ST18C right-angle bracket

Angular mounting bracket for M18 (18mm) sensors. Has two mounting holes (use 4mm screws) and allows the rotation of an optical axis for axial sensors.



	Brackets	l	Brackets			
Part Number	Part Number Price Description			Part Number Price Description		Description
ST18A		Metal axial bracket for 18mm sensors, 1/pk		ST18C		Metal right angle bracket for 18mm sensors, 1/pk
ST18A7W		316L stainless steel axial bracket for 18mm sensors, 1/pk		ST18C7W		316L stainless steel right angle bracket for 18mm sensors, 1/pk





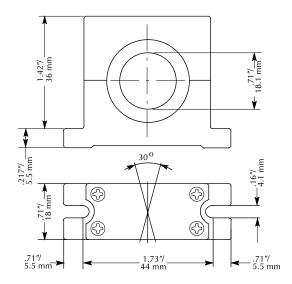
ST02 plastic swivel bracket M18 (18 mm)

Brackets Brackets						
Part Number	Price	Description				
ST02		Plastic mounting bracket for use with M18 photoelectric switches. Has a ball-joint and set screws to adjust sensor orientation. Allows orientation in all directions for retroreflective and through-beam sensors. (Will not work with C18 series).				



Dimensions

inches [mm]

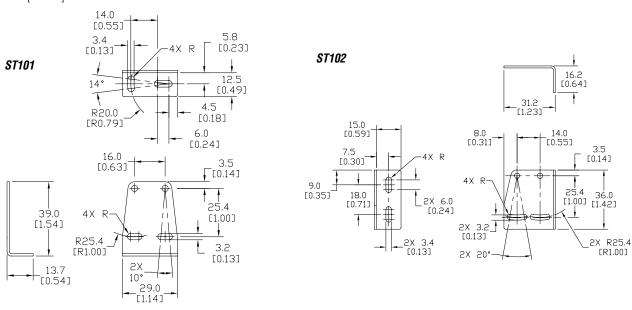


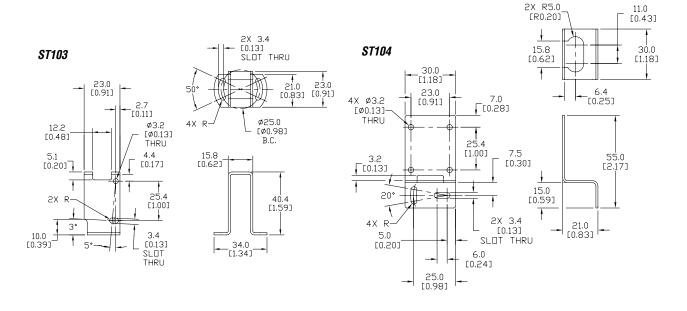
ST101 through ST104 mounting brackets

	Photoelectric Sensor Brackets						
Part Number	Price	Description	Weight [lb]				
ST101		Mounting bracket, 304 stainless steel, right-angle vertical mount. Mounting hardware included.	0.04				
ST102		Mounting bracket, 304 stainless steel, right-angle horizontal mount. Mounting hardware included.	0.05				
ST103		Mounting bracket, for prewired photoelectric sensors only, 304 stainless steel, protective vertical mount. Mounting hardware included.	0.06				
ST104		Mounting bracket, for prewired photoelectric sensors only, 304 stainless steel, protective horizontal mount. Mounting hardware included.	0.05				

Dimensions

mm [inches]





ST-S8 and ST-5072 mounting brackets

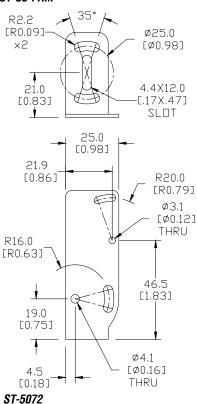


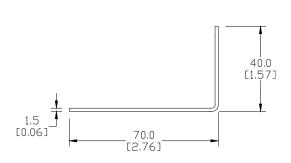
	Contrast Sensor Brackets						
Part Number	Price	Description	Weight [lb]				
ST-S8-FRM		Datalogic mounting bracket, 304 stainless steel, vertical. For use with S8 series contrast sensors.	0.48				
ST-5072		Datalogic mounting bracket, 304 stainless steel, right-angle. For use with S8 series contrast sensors.	0.10				

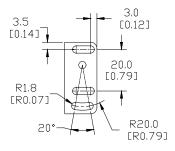
Dimensions

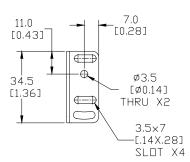
mm [inches]

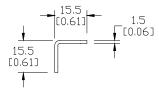
ST-S8-FRM











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