# **CX Series Photoelectric Sensors**



# Mini-rectangular plastic - DC • 18 models available

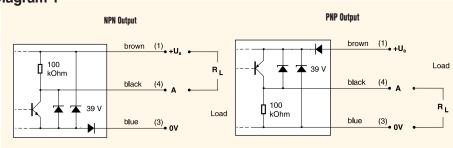
- Long operating distances
- Adjustable sensitivity
- · Scratch-resistant and easy to clean glass lens
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- Mounting brackets are not needed
- IP65 rated

		CX Serie	es Mini-Recta	ngular Phot	toelectric Sensors S	election (	Chart		
Part Number		Sensing Range	Output State	Logic	Connection	Wiring	Dimensions	Characteristic Curves	Price
Diffuse									
CX3-AN-1A				NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<>
CX3-AP-1A		Up to 600mm (23.62in)	N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<>
CX3-AN-1F		(23.62in)	IN.O.	NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 1	<>
CX3-AP-1F				PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 1	<>
Diffuse with back	kground s	uppression							
CX5-AN-1A				NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 2	<>
CX5-AP-1A		15-150mm (0.59 to 5.91in)	N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 2	<>
CX5-AN-1F		(0.59 to 5.91in)	14.0.	NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<>
CX5-AP-1F				PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<>
Polarized reflect	ive*								
CXP-AN-1A				NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<>
CXP-AP-1A	P-1A	Up to 2m (6.6 ft)	N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<>
CXP-AN-1F		Ορ το 2111 (0.0 π)		NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 3	<>
CXP-AP-1F				PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 3	<>
Through-beam * *	+								
CXR-AN-1A	Receiver			NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 4	<>
CXR-AP-1A	Receiver		N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 4	<>
CXR-AN-1F	Receiver	Up to 6m (19.7 ft)	IN.U.	NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 4	<>
CXR-AP-1F	Receiver	ορ το οπι (13.7 ΙΙ)		PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 4	<>
CXE-ON-1A	Emitter		Receiver dependent	Receiver dependent	2m (6.5') axial cable	Diagram 2	Figure 1	Chart 4	<>
CXE-ON-1F	Emitter		neceiver dependent dent	M8 (8mm) connector	Diagram 2	Figure 2	Chart 4	<>	

<sup>\*</sup>Receivers include one round (84mm dia.) RL110 reflector. Purchase additional reflectors separately.

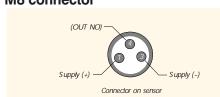
# Wiring diagrams



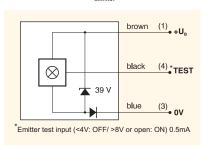


Warning: These products are not safety sensors and are not suitable for use in personal safety applications.

# **M8** connector



#### Diagram 2



<sup>\*\*</sup>Purchase one receiver and one emitter for a complete set.

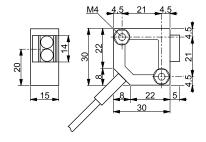
# **CX Series Photoelectric Sensors**

<b>Specifications</b>	Diffuse Models	Diffuse Models with Background Suppression	Reflective Models	Through-beam Models		
Туре	Diffuse reflection	Diffuse reflection with background suppression	Polarized reflection	Through-beam		
Sensing Distance	600mm <sup>2</sup>	15 to 150mm <sup>3</sup>	2m	6m		
Emission	IR-LED (880nm)	LED red (660nm)	LED red polarized(660nm)	IR-LED (880nm)		
Sensitivity		Adjustable 12-	turn pot.			
Differential Travel		≤10%	Ó			
Operating Voltage		10-36VI	OC .			
Ripple		≤20%	Ó			
Power Consumption	15mA	25mA	15mA	15mA(R)/10mA(E)		
Load Current		≤200m	nA			
Leakage Current		≤10µ/	A			
Voltage Drop		≤2.0\	1			
Output Type		NPN or PNP; I	N.O. only			
Switching Frequency	1kHz	500Hz	1kHz	1kHz		
(tv) Time Delay Before Availability		100ms	3			
Protection From Input Voltage Transients		Up to 36\	/DC			
Input Power Polarity Reversal Protection		Yes				
Output Power Short-Circuit Protection		Yes (switch autoresets after	overload is removed)			
Temperature Range		-25° to + 55°C (-1	3° to 131°F)			
Temperature Drift		≤3%				
Interference to External Light		5,000 lux (incandescent lamp	o) 10,000 lux (sunlight)			
Protection Degree (DIN 40050)	IEC IP65					
LED Indicators		Yellow (output state, output energized	), green (excess light indication)			
Housing Material		PBTP (Cra	stin)			
Lens Material		Glass				
Weight (cable/connector)		84g (2.96 oz)/49g (1.73 oz)		232g (8.40oz)/98g (3.46oz)		

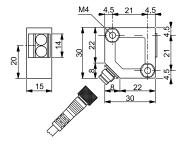
Through-beam sensors must be used in pairs consisting of one receiver and one emitter <sup>2</sup>With 200x200mm white matte paper,

## Dimensions (mm)

## Figure 1

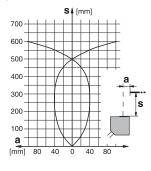


#### Figure 2

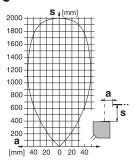


### Characteristic curves

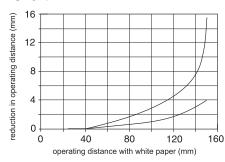
#### Chart 1



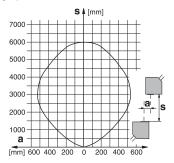
#### Chart 3



#### Chart 2



#### Chart 4



V

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Part #

With 100x100mm white matte paper

## Cables with quick-disconnect plugs

- · Industry standard axial and right-angle M8/M12 screw-lock connectors with open leads. The cables listed can be used with patch cables
- 2m, 5m, 7m and 10m cable lengths
- PVC (polyvinyl chloride) jacket for typical industrial applications
- · PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated



CD08-0A-050-A1 and -C1 shown



CD12L-0B-020-A0 and -C0 shown



CD12M-0B-050-C1 and -A1 shown

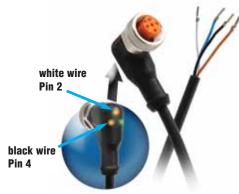
M8 Quick-Disconnect Cables (Pico, Nano)									
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions		
M8 Quick-Disconnects									
CD08-0A-020-A1	<>	2m (6.5ft.)	3	Axial	No	PVC	Figure 1		
CD08-0A-020-C1	<>	2m (6.5ft.)	3	Right-angle	No	PVC	Figure 2		
CD08-0A-050-A1	<>	5m (16.4ft.)	3	Axial	No	PVC	Figure 4		
CD08-0C-050-A1	<>	5m (16.4ft.)	3	Axial	No	PUR	Figure 3		
CD08-0A-050-C1	<>	5m (16.4ft.)	3	Right-angle	No	PVC	Figure 5		
CD08-0C-050-C1	<>	5m (16.4ft.)	3	Right-angle	No	PUR	Figure 5		
CD08-0A-070-A1	<>	7m (23ft.)	3	Axial	No	PVC	Figure 1		
CD08-0A-070-C1	<>	7m (23ft.)	3	Right-angle	No	PVC	Figure 2		

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)									
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions		
M12 Quick-Disconnects									
CD12L-0B-020-A0	<>	2m (6.5ft)	4	Axial	No	PVC	Figure 6		
CD12L-0B-020-C0	<>	2m (6.5ft)	4	Right-angle	No	PVC	Figure 7		
CD12M-0B-050-A1*	<>	5m (16.4ft)	3	Axial	No	PVC	Figure 8		
CD12M-0D-050-A1*	<>	5m (16.4ft)	3	Axial	No	PUR	Figure 9		
CD12M-0B-050-C1*	<>	5m (16.4ft)	3	Right-angle	No	PVC	Figure 10		
CD12M-0D-050-C1*	<>	5m (16.4ft)	3	Right-angle	No	PUR	Figure 11		
CD12M-0B-070-A1	<>	7m (23ft)	4	Axial	No	PVC	Figure 6		
CD12M-0B-070-C1	<>	7m (23ft)	4	Right-angle	No	PVC	Figure 7		

Note: Do not use with: DM, FA, QX, SS, SSF, SU, TU, VM, VK, MV, MS or MSF series sensors. These sensors require 4-pole cables.

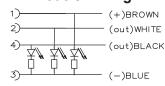
# Cables with LED and quick-disconnect plugs

- Industry standard M12 right angle female plug with open leads
- These cables can be used with patch
- 2m, 5m and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 / IP68 / IP69K, II rated
- LED indication for 10 -36 VDC PNP sensors only



M12	M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)								
Part Number	Price					Jacket	Dimensions		
M12 Quick-Dis	M12 Quick-Disconnects								
EVC178*	<>	2m (6.5ft)	4	Right-angle	Yes	PUR	Figure 12		
EVC179*	<>	5m (16.4ft)	4	Right-angle	Yes	PUR	Figure 12		
EVC180*	<b>EVC180*</b> <> 10m (32.8ft) 4 Right-angle Yes PUR Figure 12								
	*Note: LED for 10 to 36 VDC PNP only.  Do not use when white wire (Pin 2) is used for selection of a sensor function.								

**LED Models' Wiring** 





PNP-NORMALLY OPEN

e19-73 Sensors

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Part# Index

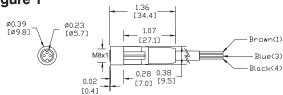
/photoelectric

	Cable Specifications								
Specification		M8	I	W12	M12 with LED				
Length	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5 ft) / 5m (16.4ft) / 10m (32.8ft)				
Nominal Voltage	50VAC/75VDC	60VAC/DC	300VAC	250VAC/DC	10 to 36VDC				
Max Current		4A		4A	4A				
LED Current Loading	N/A	N/A	N/A	N/A	10V input Brown wire LED: 1.7mA White and/or Black LED: 0.9mA 36V input Brown wire LED: 7.3mA White and/or Black LED: 4.7mA				
Protection Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67 / IP68 / IP69K				
Material Nut	brass; r	nickel plated	brass; r	nickel plated	brass; nickel plated				
Jacket Material	PVC	PVC:CD08-0A-xxx. PUR:CD08-0C-xxx	PVC PVC:CD12M-0B-xxx. PUR:CD12M-0D-xxx		PUR				
Housing Material		PUR		PUR	PUR				
Contacts Material	Copper-Tin Alloy (CuSn) -gold plated		Copper-Tin Alloy (CuSn) -gold plated		Gold plated brass				
Tightening Torque	0.5 Nm	≤ 0.4 Nm	0.5 Nm ≤ 0.4 Nm		0.6 to 1.5 Nm				
Conductors Cross Section (AWG)	0.25mm <sup>2</sup> (24 AWG)	0.25mm <sup>2</sup> (24 AWG)	0.25mm <sup>2</sup> (24 AWG)	0.34mm <sup>2</sup> (22 AWG)	4 x 0.34mm <sup>2</sup> (4 x 22 AWG)				
Ø Outer Cable	5mm	PVC: 4 mm PUR: 4 mm	5mm	PVC: 4.2 mm PUR: 4.3 mm	5mm				
Temperature Range	-25° to +80°C (-13° to 176°F)	-25° to 90°C (-13° to 194°F)	-25° to +80°C (-13° to 176°F)	PVC: -30° to 70°C (-22° to 158°F) PUR: -50° to 90°C (-58° to 194°F)	-25° to +90°C (-13° to 194°F)				
Environmental	N/A	Halogen free, Silicone free	N/A	Halogen free, Silicone free	Halogen free, Silicone free				
Function Display Power LED	N/A	N/A	N/A	N/A	Green				
Switching Status LED	N/A	N/A	N/A	N/A	2 x Yellow				
Bending Radius			min. 10 x cat	ole diameter					
Bending Cycles	N/A	N/A	N/A	N/A	>5 million				
Bending Radius  Bending Cycles  Travel Speed  Trorsional Strain	N/A	N/A	N/A	N/A	Max. 3.3 m/s for a horizontal travel length of 5 meters and max. acceleration of 5 m/s <sup>2</sup>				
Torsional Strain	N/A	N/A	N/A	N/A	±180°/m				
Agency Approvals		Ro	HS	<u> </u>	UL File E191684, RoHS				

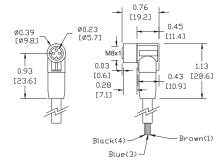
	UL Reference							
	Mini-Series Female Cord Connectors Series M12, UL Catalog Number							
EVC178	AD0AH043MSS0002H04							
EVC179	AD0AH043MSS0005H04							
EVC180								
	vn in UL file under Mini-series Female Connectors using catalog number							

## Dimensions (in/mm)

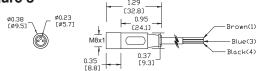




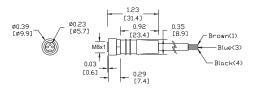
# Figure 2



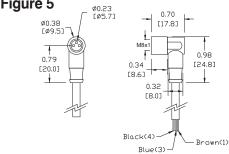
#### Figure 3



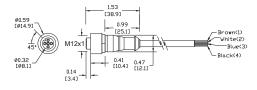
#### Figure 4



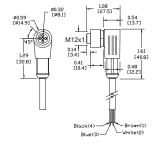
#### Figure 5



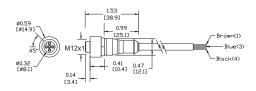
#### Figure 6



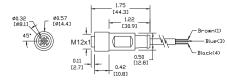
#### Figure 7



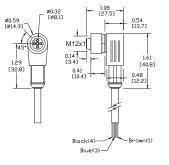
#### Figure 8



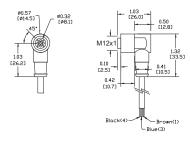
#### Figure 9



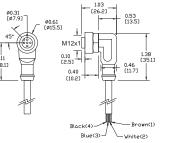
#### Figure 10



#### Figure 11



#### Figure 12



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## Patch cables with quickdisconnect plugs on each end

- Available patch cables include:
   Industry standard M8 and M12 screw-lock
- One male and one female connector
- Axial and right-angle connector models
- 1m and 3m cable lengths
- PVC (polyvinyl chloride)jacket for typical industrial applications
- IP67 rated



M8 Patch Cables with Quick-Disconnect on Each End (Pico, Nano)								
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions		
M8 Quick-Disconnect Patch Cables								
CDP08-0A-010-AA	<>	1m (3.28ft)	3	2 Axial. One male and one female connector	PVC	Figure 1		
CDP08-0A-010-BB	<>	1m (3.28ft)	3	2 Right-angle. One male and one female connector	PVC	Figure 3		
CDP08-0A-030-AA	<>	3m (9.84ft)	3	2 Axial. One male and one female connector	PVC	Figure 2		
CDP08-0A-030-BB	<>	3m (9.84ft)	3	2 Right-angle. One male and one female connector	PVC	Figure 3		

M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)									
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions			
M12 Quick-disconnect	M12 Quick-disconnect Patch Cables								
CDP12-0B-010-AA	<>	1m (3.28ft.)	4	2 Axial. One male and one female connector	PVC	Figure 4			
CDP12-0B-010-BB	<>	1m (3.28ft.)	4	2 Right-angle. One male and one female connector	PVC	Figure 5			
CDP12-0B-030-AA	<>	3m (9.84ft.)	4	2 Axial. One male and one female connector	PVC	Figure 4			
CDP12-0B-030-BB	<>	3m (9.84ft.)	4	2 Right-angle. One male and one female connector	PVC	Figure 5			

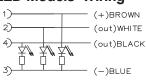
## Patch Cables with LED

Available patch cables with LED include:

- Right-angle M12 female plug with LED indication on one end and axial male plug on the other end
- 0.3m, 0.6m, 1m, 2m, 5m, and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 /IP68 / IP69K, II rated
- LED indication for 10 -36 VDC PNP sensors

white wire	1
Pin 2	
X	
black wire	
Pin 4	

#### **LED Models' Wiring**





M12 P	M12 Patch Cables with LED Indicator (Euro, Micro DC-Single Key)									
Part Number	Price	Length	Poles	Connectors	LED	Jacket	Dimensions			
M12 Patch Cab	M12 Patch Cables									
EVC322*	<>	0.3m (0.98ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
EVC323*	<>	0.6m (1.97ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
EVC324*	<>	1m (3.28ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
EVC325*	<>	2m (6.5ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
EVC326*	<>	5m (16.4ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
EVC327*	<>	10m (32.8ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6			
Note: LED for 10 to Do not use w		•	is used fo	r selection of a sen	sor functi	ion.				

			Cable Spec	ifications		
	Specification	M8	M12	M12 with LED		
Length		1m (3.28ft.)	/ 3m (9.84ft.)	0.3m (0.98tt) / 0.6m (1.97ft) / 1m (3.28ft) 2m (6.5ft) / 5m (16.4ft) / 10m (32.8ft)		
Nominal	Voltage	60 VAC/DC	250 VAC/DC	10 to 36VDC		
Max Curr	ent	4	A	4A		
LED Curre	ent Consumption	N	/A	10V input Brown wire LED: 1.7mA White and/or Black LED: 0.9mA 36V input Brown wire LED: 7.3mA White and/or Black LED: 4.7mA		
Protection	n Degree	IEC	IP67	IEC IP67/IP68/IP69K		
Material	Nut	Brass: nickel plated		Brass: nickel plated		
Jacket M.	aterial	PVC		PUR		
<b>Housing</b>	Material	PUR		Connector: Orange PUR, Socket: Black PUR		
Contacts	Material	Copper-tin(CuSn)=Brass		Brass; gold plated		
Conducto	rs Cross Section (AWG)	0.34mm <sup>2</sup>		0.34mm <sup>2</sup> (22 AWG)		
Tightenin	g Torque	0.5 Nm		Plug: 0.6 to 1.5 Nm (take into account the maximum value of the counterpart) Socket: 0.6 to 1.5 Nm		
Ø Outer C	Cable	5n	nm	5mm		
Temperat	ture Range	-25° to +70°C	(-13° to 158°F)	-25° to +90°C (-13° to 194°F)		
Function	Display LED	N	/A	Green		
	g Status LED	N	/A	2 x Yellow		
re lity	Bending Radius			min. 10 x cable diameter		
hair Cab tabi	Bending Cycles			>5 million		
Drag Chain (Roller Cable Tray) Suitability	Travel Speed	N	/A	Max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s <sup>2</sup>		
Traj	Torsional Strain	N/A		±180°/m		
Agency A	pprovals	Ro	HS	UL File E191684, RoHS		

UL Reference				
Part Number	Cable Assemblies Series M12, UL Catalog Number			
EVC322	VD0AH043MSS00.3H04STGH040MSS			
EVC323	VDOAH043MSS00.6H04STGH040MSS			
EVC324	VD0AH043MSS0001H04STGH040MSS			
EVC325	VD0AH043MSS0002H04STGH040MSS			
EVC326	VD0AH043MSS0005H04STGH040MSS			
EVC327	VD0AH043MSS0010H04STGH040MSS			
Note: Shown in UL file under Cable Assemblies using catalog number				

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# Dimensions (in/mm)

Figure 1

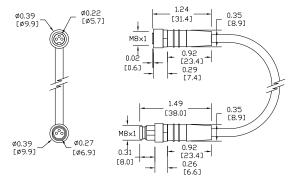


Figure 2

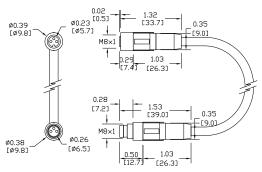


Figure 3

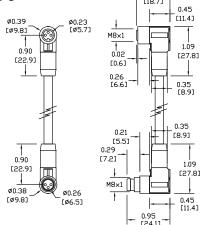


Figure 4

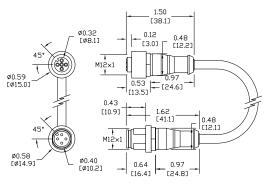


Figure 5

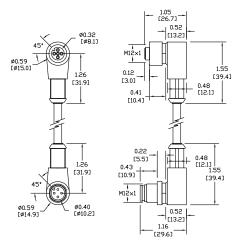
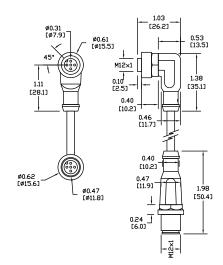


Figure 6



# **Accessories: Reflectors and Shutters**

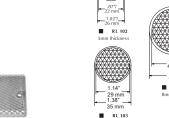
## RL series reflectors for polarized reflective photoelectric sensors (all models)

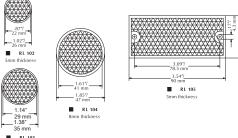
- Suitable for use with polarized light photoelectric sensors
- Shapes and sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- · Single hole, dual hole and stud mounting types available
- 10 reflectors per package

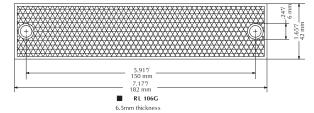
#### Installation notes

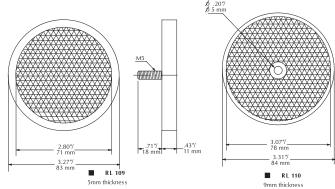
- Keep the reflector surface clean to ensure peak detection performance. This is especially true when the maximum sensing range is being used. Clean using a damp cloth
- · When selecting a reflector, it is important to consider the ambient conditions it will be exposed to. Dusty or high humidity conditions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











				5m	m thickness		9mm thickness
Specifications Specification Specif							
Model	RL102	RL103	RL104	RL105	RL106G	RL109	<b>RL110</b> <sup>3</sup>
Price (10 per pack)	<>	<>	<>	<>	<>	<>	<>
% Sensing Range Using SSP <sup>1</sup>	50%	40%	50%	50%	50%	50%	100%
% Sensing Range Using QXP <sup>1</sup>		35%	60%	50%	45%	30%	100%
Dimensions	Ø26mm	Ø36mm	Ø47mm	90x40mm	182x42mm	Ø83mm	Ø84mm
Degree of Protection <sup>2</sup>	IEC IP67						
Mounting	Customer-suppl method required	Customer-supplied adhesive or other mounting two Ø4.3 method required			two Ø6mm holes	one M5 stud	one Ø5mm hole
Materials	Reflective face: F	Reflective face: PMMA Polymethylmethacrylate (acrylic): base material: ARS (Acrylonitrile-hutadiene-styren)					

1 Refer to individual catalog pages for detailed explanations of these photoelectric sensors.

2 Not recommended for applications involving moist air environments or water immersion.

3 All reflective sensors are shipped with an RL110 reflector.

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



Reduces the emitted beam, allowing the detection of small targets
small targets

Sensing Distance (when used with SSE / SSR Model Photoelectric switches)						
Model	STOS1	STOS2	STOS3	STOS4	STOS6	STOS8
Pieces Per Pack	1	1	1	1	1	1
Price	<>	<>	Discontinued	<>	<>	<>
Ø x shutter (mm)	1	2	3	4	6	8
Distance (m) object (mm)	N/A N/A	N/A N/A	1 1.5	1.5 2	3.5 3	6.5 4

Shutter consists of a threaded ring-nut, a protective lens, an O-ring and an aperture, which can screw onto the optical head of either the emitter or receiver. The table above shows the sensing distance and minimal detectable object.

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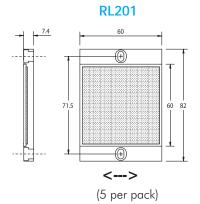
# Accessories: Reflectors, Adapters & **Mounting Brackets**

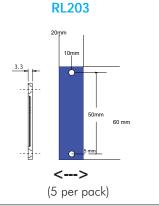
## RL series reflectors for polarized reflective Laser photoelectric sensors (FALN series)

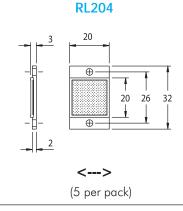
- Suitable for use with polarized light Laser photoelectric sensors
- Sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- 5 reflectors per package

Spec	ifications		
Model	RL201	RL203	RL204
Sensing Range Using FALN <sup>1</sup>	30m	7m	7m
Dimensions	60mm x 82mm	19mm x 60mm	20mm x 32mm
Mounting	two Ø4mm holes	two Ø5mm holes	two Ø3mm holes
Degree of Protection <sup>2</sup>		IEC IP67	
Materials		Acrylic/polycarbonate	

1 Refer to individual catalog pages for detailed explanations of these photoelectric sensors. 2 Not recommended for applications involving moist air environments or water immersion. Note: All reflective sensors are shipped with an RL110 reflector. Purchase additional reflectors separately.







## ST03 right-angle M18 (18 mm) beam adapter

For use with M18 retroreflective through-beam photoelectric switches (not for use with diffuse reflection sensors). Allows 90° light detection using an internal mirror set at  $45^{\circ}$  to the optical axis. Sensitivity loss is about 20-30%.





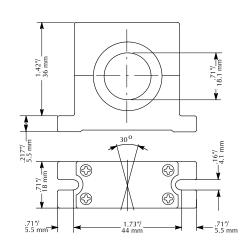
# Ø .83″/\_ Ø 21 mm .63″/ 16 mm .51″/ 13 mm

## ST02 plastic swivel bracket M18 (18 mm)

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).







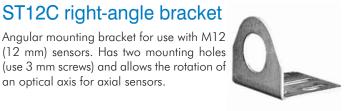
# **Accessories: Mounting Brackets**

## ST12A axial bracket

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



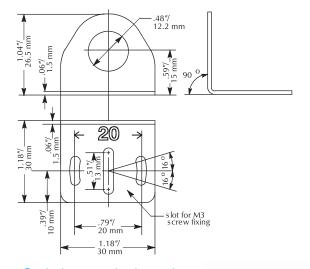
	Angular mounting bracket for use with M
650V26	(12 mm) sensors. Has two mounting ha
30-	(use 3 mm screws) and allows the rotation
	an optical axis for axial sensors.
2 ES 1	



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

.48"/ 12.2 mm
1.26 / mm 3.2 mm 53.5 mm
.79"/ 00 mm

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



## ST18A axial bracket

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



# ST18C right-angle bracket

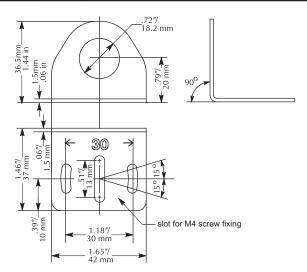
Angular mounting bracket for M18 (18 mm) sensors. Has two mounting holes (use 4 mm screws) and allows the rotation of an optical axis for axial sensors.



Brackets					
Part Number	Price	Description			
ST18A	<>	Metal axial bracket for 18 mm sensors, 1/pk			
ST18A7W	<>	316L stainless steel axial bracket for 18 mm sensors, 1/pk			

30 mm slot for M4 screw fixing  1.18"/ 30 mm slot for M4 screw fixing
---

<b>Brackets</b>					
Part Number	Price	Description			
ST18C	<>	Metal right angle bracket for 18 mm sensors, 1/pk			
ST18C7W	<>	316L stainless steel right angle bracket for 18 mm sensors, 1/pk			



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