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

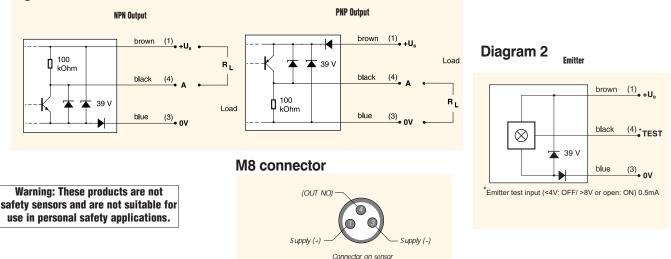
CX Series Mini-Rectangular Photoelectric Sensors Selection Chart												
Part Number	t Number Sensing Range				Connection	Wiring	Dimensions	Characteristic Curves	Price			
Diffuse												
CX3-AN-1A				NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<>			
CX3-AP-1A		Up to 600mm (23.62in)	N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<>			
CX3-AN-1F		'(23.62in)	N.U.	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 background suppression												
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)	N.U.	NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<>			
CX5-AP-1F				PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<>			
Polarized reflecti	ve *											
CXP-AN-1A				NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<>			
CXP-AP-1A		Up to 2m (6.6 ft)	N.O.	PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<>			
CXP-AN-1F		0p to 2111 (0.0 it)	N.U.	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)	N.U.	NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 4	<>			
CXR-AP-1F	Receiver			PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 4	<>			
CXE-ON-1A	Emitter		Receiver dependent	Receiver depen- dent	2m (6.5') axial cable	Diagram 2	Figure 1	Chart 4	<>			
CXE-ON-1F	Emitter		neceivei dependent	dent	M8 (8mm) connector	Diagram 2	Figure 2	Chart 4	<>			

*Receivers include one round (84mm dia.) RL110 reflector.Purchase additional reflectors separately.

**Purchase one receiver and one emitter for a complete set.

Wiring diagrams

Diagram 1



CX Series Photoelectric Sensors

Specifications	Diffuse Models	Diffuse Models with Background Suppression	Reflective Models	Through-beam Models ¹			
Гуре	Diffuse reflection	Diffuse reflection with background suppression	Polarized reflection	Through-beam			
Sensing Distance	600mm ²	15 to 150mm ³	2m	6m			
mission	IR-LED (880nm)	LED red (660nm)	LED red polarized(660nm)	IR-LED (880nm)			
Sensitivity		Adjustable 12-	turn pot.				
Differential Travel		≤109	6				
Dperating Voltage		10-36V	DC				
Ripple		≤20%	6				
Power Consumption	15mA	25mA	15mA	15mA(R)/10mA(E)			
.oad Current		≤200n	nA				
eakage Current		≤10µ	A				
foltage Drop	≤2.0V						
Dutput Type		NPN or PNP;	N.O. only				
witching Frequency	1kHz	500Hz	1kHz	1kHz			
tv) Time Delay Before Availability		100m	S				
Protection From Input Voltage Transients		Up to 36'	VDC				
nput Power Polarity Reversal Protection		Yes					
Output Power Short-Circuit Protection		Yes (switch autoresets after	r overload is removed)				
Femperature Range		-25° to + 55°C (-	13° to 131°F)				
Temperature Drift		≤3%	, D				
nterference to External Light		5,000 lux (incandescent lam	p) 10,000 lux (sunlight)				
Protection Degree (DIN 40050)		IEC IP6	65				
ED Indicators		Yellow (output state, output energized	I), green (excess light indication)			
Housing Material		PBTP (Cra	astin)				
ens Material		Glass	3				
Neight (cable/connector)		84g (2.96 oz)/49g (1.73 oz)		232g (8.40oz)/98g (3.46oz			

With 200x200mm white matte ³With 100x100mm white matte paper

Dimensions (mm)

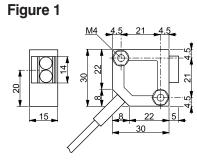
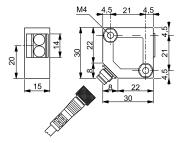


Figure 2



Characteristic curves

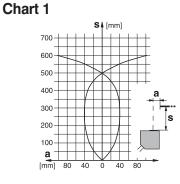
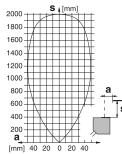
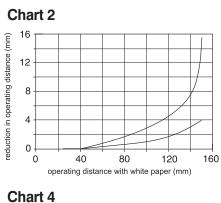
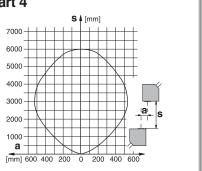


Chart 3









Index

Company Information

Pressure Sensors

Temperature

Pushbuttons/ Lights

Sensors

Process

Programmable Controllers

Volume 13

e19-49

Cables with auick-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

	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 Qui	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: DI require 4-pole cabl	· · ·	K, SS, SSF, S	SU, TU, VN	1, VK, MV, MS or	MSF se	ries sensors	. These sensors					

Cables with LED and quick-disconnect plugs

- Industry standard M12 right angle female plug with open leads
- These cables can be used with patch cables
- 2m, 5m and 10m cable lengths

<--->

<--->

<--->

*Note: LED for 10 to 36 VDC PNP only.

2m (6.5ft)

5m (16.4ft)

10m (32.8ft)

Part Number | Price

EVC178*

EVC179*

EVC180*

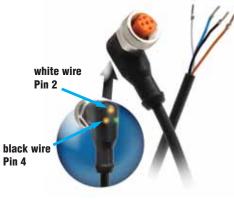
M12 Quick-Disconnects

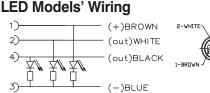
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 / IP68 / IP69K, II rated
- LED indication for 10 -36 VDC PNP sensors only

Figure 12

Figure 12

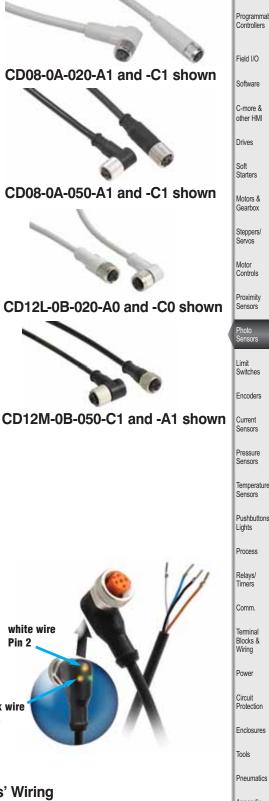
Figure 12





PNP-NORMALLY OPEN







BLUE

NDT USED

www.automationdirect.com/photoelectric

Right-angle

Right-angle

Right-angle

Length Poles Connector LED Jacket Dimensions

Yes

Yes

Yes

PUR

PUR

PUR

M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)

4

4

4

Do not use when white wire (Pin 2) is used for selection of a sensor function.

Pushbuttons/ Lights

Relays/

Comm.

Terminal Blocks &

Power

Circuit

Enclosures

Pneumatics

Appendix Product

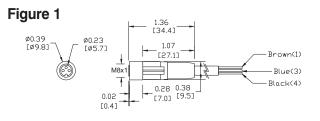
Index

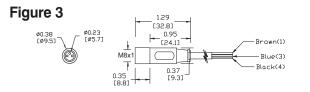
Part # Index

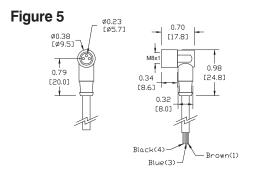
			Cable Speci	fications			
Specification			M8		M12	M12 with LED	
Length		2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5 ft) / 5m (16.4ft) / 10m (32.8ft)	
Nominal V	oltage	50VAC/75VDC	60VAC/DC	300VAC	250VAC/DC	10 to 36VDC	
Max Curre	nt		4A		4A	4A	
LED Current Loading		N/A	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 N	lut	brass; r	nickel plated	brass; r	nickel plated	brass; nickel plated	
Jacket Ma	terial	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	\leq 0.4 Nm	0.5 Nm	\leq 0.4 Nm	0.6 to 1.5 Nm	
Conductor	s Cross Section (AWG)	0.25mm ² (24 AWG)	0.25mm ² (24 AWG)	0.25mm ² (24 AWG) 0.34mm ² (22 AWG)		4 x 0.34mm ² (4 x 22 AWG)	
Ø Outer Ca	able	5mm	PVC: 4 mm PUR: 4 mm	5mm PVC: 4.2 mm PUR: 4.3 mm		5mm	
Temperatu	re 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)	
Environme	ental	N/A	Halogen free, Silicone free	N/A	Halogen free, Silicone free	Halogen free, Silicone free	
	isplay Power LED	N/A	N/A	N/A	N/A	Green	
	Status LED	N/A	N/A	N/A	N/A	2 x Yellow	
n ile ility	Bending Radius			min. 10 x cal	ole diameter		
Cab Cab	Bending Cycles	N/A	N/A	N/A	N/A	>5 million	
Drag Chain (Roller Cable Tray) Suitability	Travel Speed	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 ²	
Tra.	Torsional Strain	N/A	N/A	N/A	N/A	±180°/m	
Agency Ap	provals		Ro	HS		UL File E191684, RoHS	

Part Number	Mini-Series Female Cord Connectors Series M12, UL Catalog Number								
EVC178	ADOAH043MSS0002H04								
EVC179	ADOAH043MSS0005H04								
EVC180	ADOAH043MSS0010H04								
	Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number								

Dimensions (in/mm)







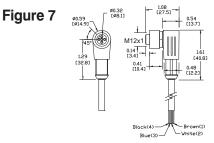
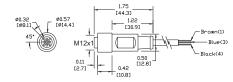
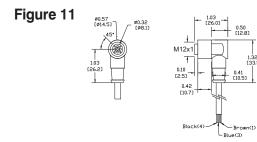


Figure 9





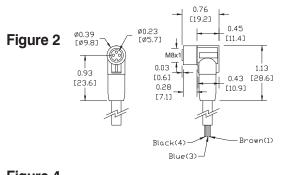


Figure 4

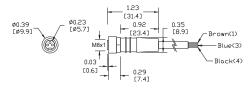


Figure 6

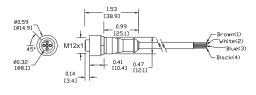


Figure 8

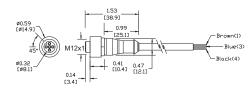


Figure 10 ø0.59 [ø14.9]

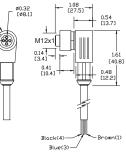
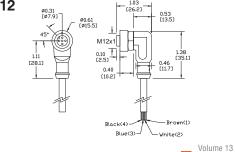


Figure 12



Company Information Systems Overview Programmable Controllers

> Software C-more & other HMI

Field I/O

Drives Soft

Starters Motors &

Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Limit Switches Encoders

Current Sensors Pressure Sensors

Temperature Sensors

Lights Process Relays/ Timers

Pushbuttons/

Comm. Terminal Blocks &

Wiring

Power Circuit

Protection Enclosures

Tools

Pneumatics Appendix

Product Index

Part # Index

0.50 [12.8]

1.32

Sensors

e19-75

Patch cables with quickdisconnect plugs on each end

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

Dimensions

Figure 1

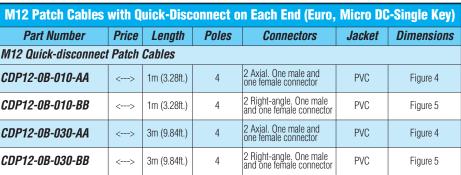
Figure 3

Figure 2

Figure 3

industrial applications

M8 Patch	Cables	with Qui	ck-Disco	nnect on Each End	l (Pico, N	ano)
Part Number	Price	Length	Poles	Connectors	Jacket	Dim
M8 Quick-Disconnect	Patch	Cables				
CDP08-0A-010-AA	<>	1m (3.28ft)	3	2 Axial. One male and one female connector	PVC	Fi
CDP08-0A-010-BB	<>	1m (3.28ft)	3	2 Right-angle. One male and one female connector	PVC	Fi
<i>CDP08-0A-030-AA</i>	<>	3m (9.84ft)	3	2 Axial. One male and one female connector	PVC	Fi
<i>CDP08-0A-030-BB</i>	<>	3m (9.84ft)	3	2 Right-angle. One male and one female connector	PVC	Fi
M12 Patch Cables	with Q	uick-Disc	onnect o	n Each End (Euro,	Micro DC	-Sing
Part Number	Price	Length	Poles	Connectors	Jacket	Dim
M12 Quick-disconnec	t Patch	Cables				
	-			-	-	-



Patch Cables with LED

Available patch cables with LED include:

• 0.3m, 0.6m, 1m, 2m, 5m, and 10m cable

lengths

4-BLACK

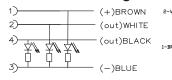
- Right-angle M12 female plug with LED indication on one end and axial male plug on the other end
- PUR (polyurethane) jacket for oily and direct sunlight applications • IP67 / IP68 / IP69K, II rated
 - LED indication for 10 -36 VDC PNP sensors only

lenguis							
M12 Pa	atch C	ables wit	h LED In	dicator (Euro,	Micro	DC-Single	e Key)
Part Number	Price	Length	Poles	Connectors	LED	Jacket	Dimensions
M12 Patch Cabl	es			1			
<i>EVC322</i> *	<>	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
<i>EVC324</i> *	<>	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 wi			is used fo	r selection of a sen	sor functi	on.	



black wire Pin 4

LED Models' Wiring



PNP-NORMALLY OPEN

	Cable Specifications									
Specification		M8	M12	M12 with LED						
Length		1m (3.28ft.) /	/ 3m (9.84ft.)	0.3m (0.98ft) / 0.6m (1.97ft) / 1m (3.28ft) 2m (6.5ft) / 5m (16.4ft) / 10m (32.8ft)						
Nominal Voltage	6	0 VAC/DC	250 VAC/DC	10 to 36VDC						
Max Current		4	A	4A						
LED Current 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 Degree		IEC	IP67	IEC IP67/IP68/IP69K						
Material Nut		Brass: nickel plated		Brass: nickel plated						
Jacket Material		PVC		PUR						
Housing Material		PUR		Connector: Orange PUR, Socket: Black PUR						
Contacts Material		Copper-tin(CuSn)=Brass		Brass; gold plated						
Conductors Cross Section (A	4 <i>WG)</i>	0.34mm ²		0.34mm ² (22 AWG)						
Tightening 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 Cable		5mm		5mm						
Temperature Range	-2	25° to +70°C	(-13° to 158°F)	-25° to +90°C (-13° to 194°F)						
Function Display LED		N,	/A	Green						
Switching Status LED		N,	/A	2 x Yellow						
ر به غز Bending Radius				min. 10 x cable diameter						
Lapider Bending Cycles				>5 million						
Drag Chain Drag Chain (Holler Cable Itay) Suitability Itay) Suitability Travel Speed Torsional Strain		N,	/A	Max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s ²						
Torsional Strain		N/A		±180°/m						
Agency Approvals		Ro	HS	UL File E191684, RoHS						

UL Reference								
Part Number	Cable Assemblies Series M12, UL Catalog Number							
EVC322	VDOAH043MSS00.3H04STGH040MSS							
EVC323	VDOAH043MSS00.6H04STGH040MSS							
EVC324	VD0AH043MSS0001H04STGH040MSS							
EVC325	VD0AH043MSS0002H04STGH040MSS							
EVC326	VD0AH043MSS0005H04STGH040MSS							
EVC327	VDOAH043MSS0010H04STGH040MSS							
Note: Shown in UL file under Cable Assemblies using catalog number								

Power

Circuit Protection

Enclosures Tools Pneumatics Appendix Product Index Part # Index

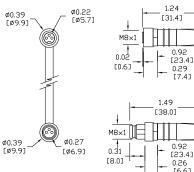
Cutomate Direct

Volume 13

e19-77

Dimensions (in/mm)

Figure 1



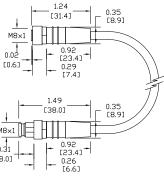


Figure 3 0.74 [18.7] 0.45 [11.4] ø0.39 [ø9.8] Ø0.23 [Ø5.7] M8×1 1.09 [27.8] t 0.02 0.90 [55'6] [0.6] + 0.26 [6.6] 0.35 [8.9] 0.35 0.21 [8.9] [5.5] 0.29 [7.2] 0.90 [22.9] 1.09 [27.8] ł M8×1 ø0.38 ø0.26 1 [ø9.8] 0.45 [11.4] [ø6.5] 0.95 [24.1] -

Figure 2

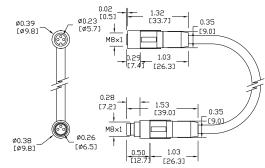


Figure 4

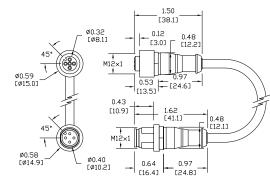


Figure 5

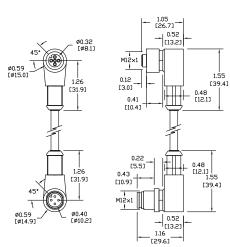
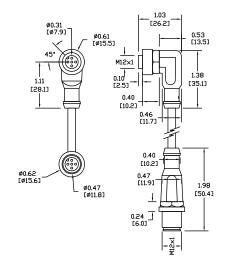


Figure 6



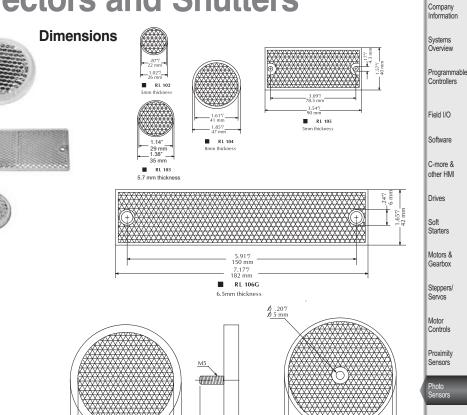
Accessories: Reflectors and Shutters

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 of ±15°.



.43″/ 11 m

3.07% 78 mm

3.31% 84 mm

9mm thickness

RL 110

Specifications											
Model	RL102	RL103	RL104	RL105	RL106G	RL109	RL110 ³				
Price (10 per pack)	<>	<>	<>	<>	<>	<>	<>				
% Sensing Range Using SSP ¹	50%	40%	50%	50%	50%	50%	100%				
% Sensing Range Using QXP ¹		35%	60%	50%	45%	30%	100%				
Dimensions	Ø26mm	Ø36mm	Ø47mm	90x40mm	182x42mm	Ø83mm	Ø84mm				
Degree of Protection ²	IEC IP67		1								
Mounting	Customer-supplied adhesive or other mounting method required			two Ø4.3mm holes	two Ø6mm holes	one M5 stud	one Ø5mm hole				
Materials	Reflective face: P	MMA Polymethy	Imethacrylate (ad	rylic); base material: ABS	(Acrylonitrile-butadiene-s	styren)					

2.80% 71 mm

3.27"/ 83 mm

RL 109

5mm thickness

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.

emitted beam, allowing the

detection of small targets

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



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.

Comm. Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics Appendix

Product Index

> Part # Index

Volume 13

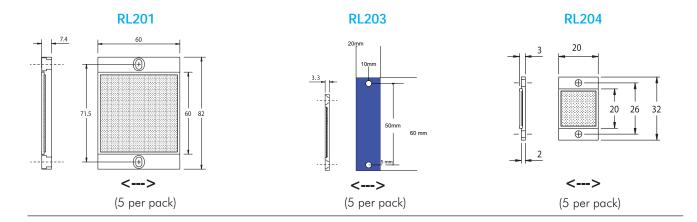
Accessories: Reflectors, Adapters & Mounting Brackets

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

Specifications				
RL201	RL203	RL204		
30m	7m	7m		
60mm x 82mm	19mm x 60mm	20mm x 32mm		
two Ø4mm holes	two Ø5mm holes	two Ø3mm holes		
IEC IP67				
Acrylic/polycarbonate				
	RL201 30m 60mm x 82mm two Ø4mm holes	RL201 RL203 30m 7m 60mm x 82mm 19mm x 60mm two Ø4mm holes two Ø5mm holes IEC IP67		

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 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%.



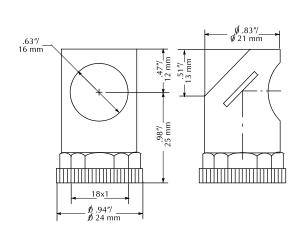
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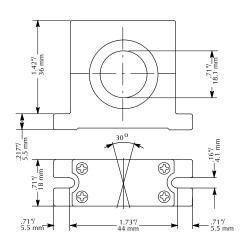
ST02 plastic swivel bracket M18 (18 mm)

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).



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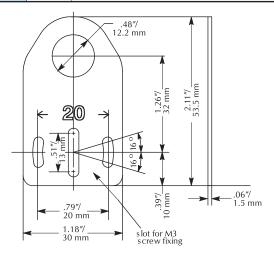
Accessories: Mounting Brackets

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.



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	

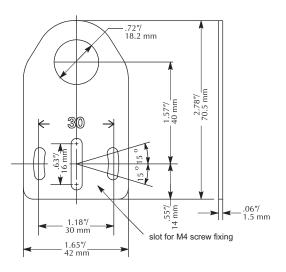


ST18A axial bracket

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.

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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	



ST12C right-angle bracket

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



Company Information

Systems Overview

Programmable

Controllers

Field I/O Software C-more 8 other HMI Drives

Soft Starters

Motors &

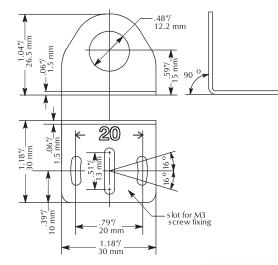
Gearbox

Steppers/ Servos

Motor Controls Proximity



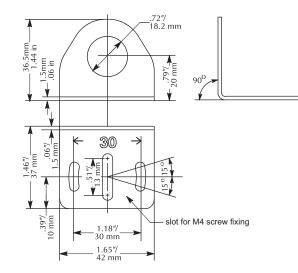
Brackets			
Part Number	Price	Description	
ST12C	<>	Metal right angle bracket for 12 mm sensors, 1/pk	
ST12C7W	<>	316L stainless steel right angle bracket for 12 mm sensors, 1/pk	



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	
ST18C	<>	Metal right angle bracket for 18 mm sensors, 1/pk	
ST18C7W	<>	316L stainless steel right angle bracket for 18 mm sensors, 1/pk	



Sensors Limit Switches Encoders Current Sensors Pressure Sensors Temperature Sensors Pushbuttons/ Lights Process Relays/ Timers Comm. Terminal Blocks & Wiring Power Circuit Protection Enclosures Tools Pneumatics Appendix

Product Index

Part #

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