FE Series Photoelectric Sensors



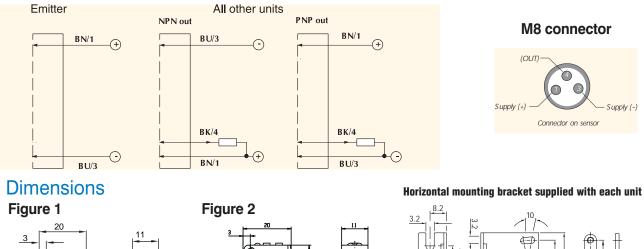
Mini-rectangular plastic - DC • 12 models available

- Diffuse, polarized reflective, and through-beam models
- Adjustable sensitivity
- Axial cable or M8 quick-disconnect models
- NPN or PNP, Light-on/Dark-on selectable output
- IP67 rated

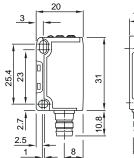
FE Series Photoelectric Sensors Selection Chart											
Part Num	ber	Price	Sensing Range	Output State	Logic	Connection	Dimensions	Characteristic Curves			
Diffuse											
FER8-ON-OA		<>			NPN	2m (6.5) axial cable	Figure 2	Chart 1			
FER8-0P-0A		<>	up to 800mm (31.49in)	Light-on/Dark-on	PNP	2m (6.5) axial cable	Figure 2	Chart 1			
FER8-0N-0F		<>	up to ooomin (31.49m)	Light-on/Dark-on Selectable	NPN	M8 (8mm) connector	Figure 1	Chart 1			
FER8-0P-0F		<>			PNP	M8 (8mm) connector	Figure 1	Chart 1			
Polarized reflective*											
FERN-ON-OA		<>	up to 4m (13.12ft)	Light-on/Dark-on Selectable	NPN	2m (6.5) axial cable	Figure 2	Chart 2			
FERN-OP-OA		<>	with RL110		PNP	2m (6.5) axial cable	Figure 2	Chart 2			
FERN-ON-OF		<>	up to 1m (39.37in)		NPN	M8 (8mm) connector	Figure 1	Chart 2			
FERN-OP-OF		<>	with RL122		PNP	M8 (8mm) connector	Figure 1	Chart 2			
Through-beam											
FERHD-ON-OA	Each part	<>			NPN	2m (6.5) axial cable	Figure 2	Chart 3			
FERHD-OP-OA	number consists of	<>	up to 12m (39.37ft)	Light-on/Dark-on Selectable	PNP	2m (6.5) axial cable	Figure 2	Chart 3			
FERHD-ON-OF	an emitter and receiver	emitter	up to 12111 (39.371t)	⁻ Selectable	NPN	M8 (8mm) connector	Figure 1	Chart 3			
FERHD-0P-0F	pair	<>		-	PNP	M8 (8mm) connector	Figure 1	Chart 3			

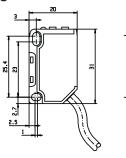
*Note: Polarized reflective sensors include one round reflector (84mm dia.) and one rectangular reflector (12mm x 54mm). Purchase additional reflectors separately.

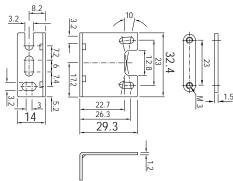
Wiring diagrams



ø3.75







FE Series Photoelectric Sensors

Specifications	Diffuse Models	Reflective Models	Through-Beam Models					
Туре	Diffuse reflection	Polarized reflection ³	Through-beam ⁴					
Sensing Distance	800mm ¹	4m with RL110 1m with RL122	20m					
Emission		Red LED (visable)						
Blind Zone	-	10mm	-					
Sensitivity		Adjustable						
Differential Travel	≤20%		-					
Response Time		≤5ms						
Operating Voltage		10-30VDC						
Ripple		≤10%						
No-load Supply Current	≤3	OmA	Emitter: ≤15mA; Receiver: ≤20mA					
Load Current	≤100mA							
Leakage Current								
Voltage Drop	1.8V max at 100mA							
Output Type	NPN or PNP - Light-on/Dark-on Rotary Switch							
Switching Frequency	1kHz							
(tv) Time Delay Before Availability		100ms						
Input Voltage Transients Protection	Yes,	as long as the transient peak does not reach	1 30VDC					
Input Power Polarity Reversal Protection		Yes						
Output Power Short-Circuit Protection		Yes, switch autoresets after load is remove	ed					
Temperature Range		-25/+55°C (-13° to 131° F)						
Temperature Drift		15% Sr						
Interference to External Light	30	000 lux (incandescent lamp), 10000 lux (sur	nlight)					
Protection Degree (DIN 40050)		IP67						
Agency Approvals		UL file E328811						
LED Indicators		Yellow (output energized)						
Housing Material		PBT						
Lens Material	PC							
Tightening Torque		40 N-m (29 lb-ft)						
Weight (cable/connector)		53g (1.87oz) / 9g (0.32oz)						

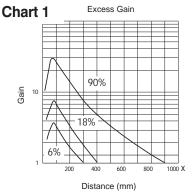
¹With 100x100mm white matte paper

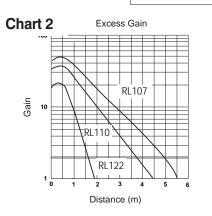
 2 With Ø84mm RL110 reflector or 12 x 54mm RL122 reflector.

 3 Each sensor includes one 84mm round reflector (RL110) and one 12 x 54mm rectangular reflector. Purchase additional reflectors separately.

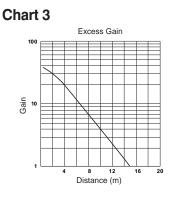
⁴Each through-beam part number consists of an emitter and receiver pair.

Characteristic curves





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



Volume 13

e19-47

Soft Starters

Company Information

Systems Overview

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

Programmable Controllers

Motors & Gearbox

Steppers/ Servos Motor Controls

Proximity Sensors

Photo

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 #

Index

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 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

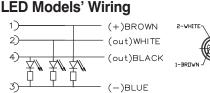
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 / IP68 / IP69K, II rated
- LED indication for 10 -36 VDC PNP sensors only

Figure 12

Figure 12

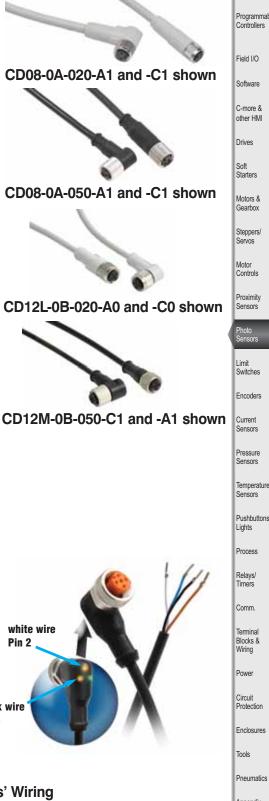
Figure 12





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

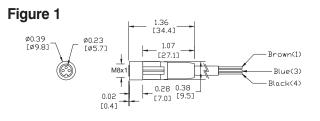
Index

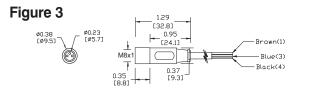
Part # Index

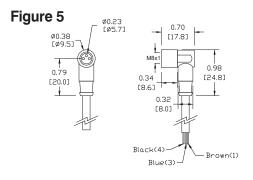
			Cable Speci	fications			
Specification			M8		M12	M12 with LED	
Length		2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5 ft) / 5m (16.4ft) / 10m (32.8ft)	
Nominal V	oltage	50VAC/75VDC	60VAC/DC	300VAC	250VAC/DC	10 to 36VDC	
Max Curre	nt		4A		4A	4A	
LED Curre	nt Loading	N/A	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)







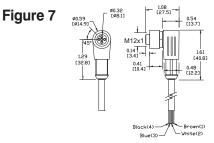
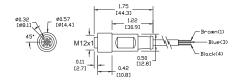
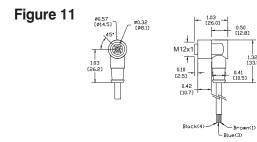


Figure 9





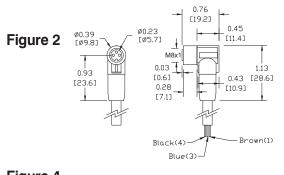


Figure 4

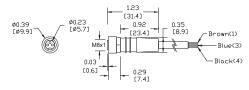


Figure 6

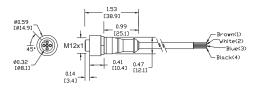


Figure 8

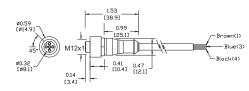


Figure 10 Ø0.59 [Ø14.9]

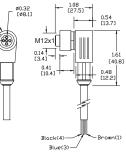
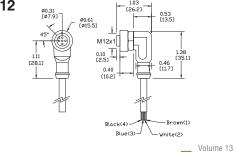


Figure 12



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

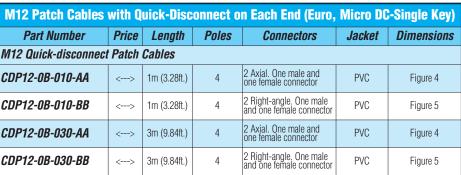
Figure 3

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

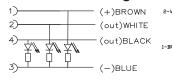
- Right-angle M12 female plug with LED indication on one end and axial male plug on the other end
- PUR (polyurethane) jacket for oily and direct sunlight applications • IP67 / IP68 / IP69K, II rated
 - LED indication for 10 -36 VDC PNP sensors only

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

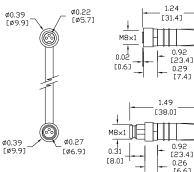
Cutomate Direct

Volume 13

e19-77

Dimensions (in/mm)

Figure 1



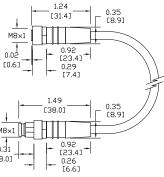


Figure 3 0.74 [18.7] 0.45 [11.4] ø0.39 [ø9.8] Ø0.23 [Ø5.7] M8×1 1.09 [27.8] t 0.02 0.90 [55'6] [0.6] + 0.26 [6.6] 0.35 [8.9] 0.35 0.21 [8.9] [5.5] 0.29 [7.2] 0.90 [22.9] 1.09 [27.8] ł M8×1 ø0.38 ø0.26 1 [ø9.8] 0.45 [11.4] [ø6.5] 0.95 [24.1] -

Figure 2

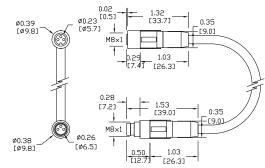


Figure 4

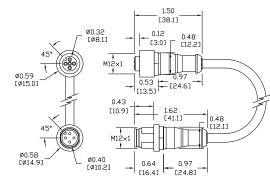


Figure 5

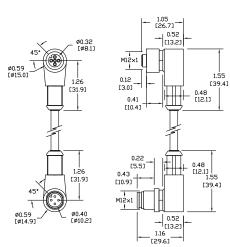
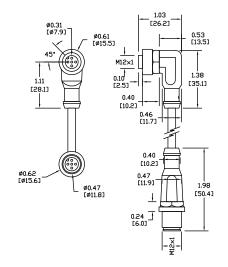


Figure 6



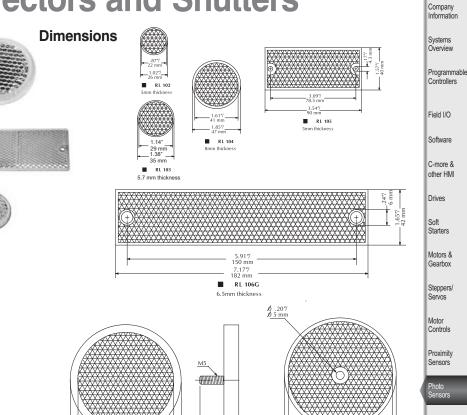
Accessories: Reflectors and Shutters

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	Reflective face: PMMA Polymethylmethacrylate (acrylic); base material: ABS (Acrylonitrile-butadiene-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

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Volume 13

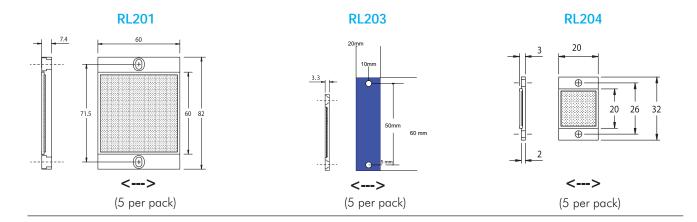
Accessories: Reflectors, Adapters & Mounting Brackets

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%.



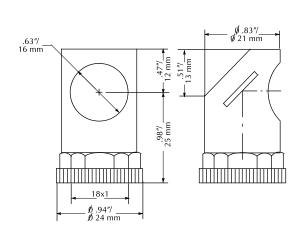
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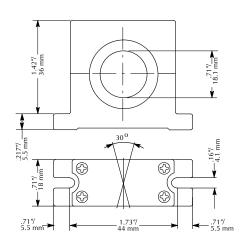
ST02 plastic swivel bracket M18 (18 mm)

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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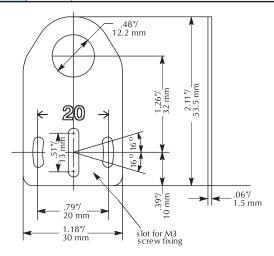
Accessories: Mounting Brackets

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	

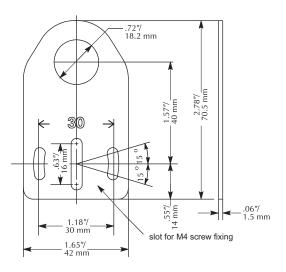


ST18A axial bracket

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 &

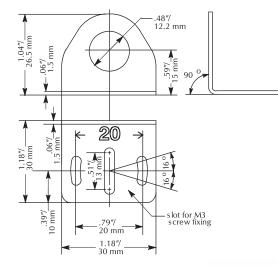
Gearbox

Steppers/ Servos

Motor Controls Proximity



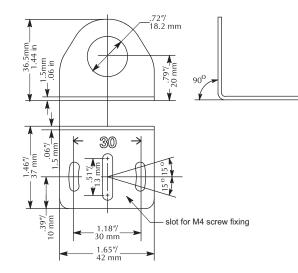
Brackets			
Part Number	Price	Description	
ST12C	<>	Metal right angle bracket for 12 mm sensors, 1/pk	
ST12C7W	<>	316L stainless steel right angle bracket for 12 mm sensors, 1/pk	



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

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Part #

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