

# C5 Series Stainless Steel Photoelectric Sensors



## M5 (5 mm) stainless steel - DC

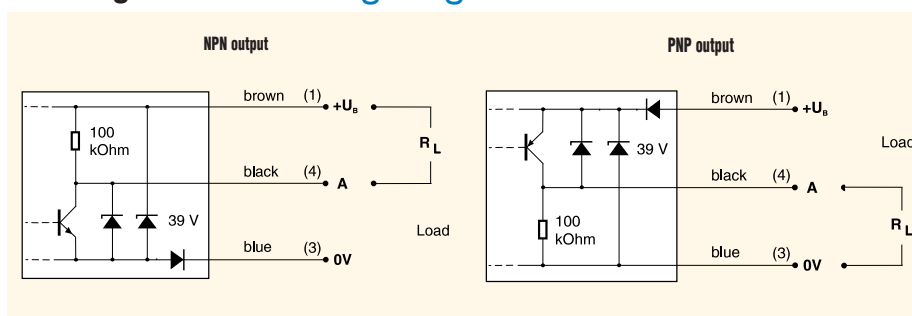
- 14 models available
- Diffuse and through-beam styles
- Long operating distances
- Compact stainless steel housing
- Scratch resistant and easy to clean glass lens
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- IP67 rated

C5 Series M5 Photoelectric Sensors Selection Chart									
Part Number		Sensing Range	Output State	Logic	Connection	Wiring	Dimensions	Characteristic Curves	Price
Diffuse									
C5D-AN-1A		50mm (1.97in) <sup>1</sup>	N.O.	NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<---
C5D-AP-1A				PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 1	<---
C5D-AN-1F				NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 1	<---
C5D-AP-1F				PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 1	<---
C5D-AN-2A		10mm (0.40in)		NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<---
C5D-AP-2A				PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3	<---
C5D-AN-3A		20mm (0.79in) <sup>1</sup>		NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 4	<---
C5D-AP-3A				PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 4	<---
Through-beam*									
C5R-AN-1A	Receiver	250mm (9.84in)	N.O.	NPN	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 2	<---
C5R-AP-1A	Receiver			PNP	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 2	<---
C5R-AN-1F	Receiver			NPN	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<---
C5R-AP-1F	Receiver			PNP	M8 (8mm) connector	Diagram 1	Figure 2	Chart 2	<---
C5E-ON-1A	Emitter		Receiver dependent	Receiver dependent	2m (6.5') axial cable	Diagram 2	Figure 1	Chart 2	<---
C5E-ON-1F	Emitter				M8 (8mm) connector	Diagram 2	Figure 2	Chart 2	<---
<sup>1</sup> With 100x100mm white matte paper									

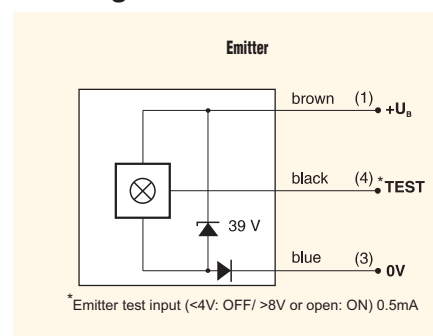
<sup>1</sup> With 100x100mm white matte paper

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

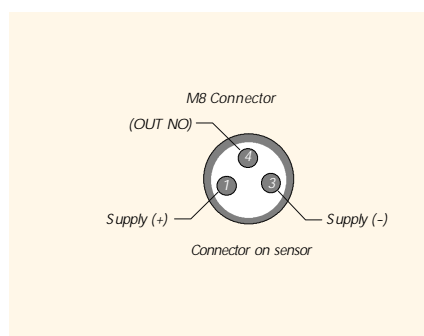
## Diagram 1 Wiring diagrams



## Diagram 2



## Connector



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

# C5 Series Stainless Steel Photoelectric Sensors

Specifications	Diffuse and Through-beam Models
<b>Emission</b>	Infrared (880nm)
<b>Differential Travel</b>	$\leq 10\%$
<b>Operating Voltage</b>	10-30VDC
<b>Ripple</b>	$\leq 20\%$
<b>Current Draw</b>	Emitter: 10mA Receiver: 5mA
<b>Load Current</b>	$\leq 100\text{mA}$
<b>Leakage Current</b>	$\leq 10\mu\text{A}$
<b>Voltage Drop</b>	$\leq 2.0\text{V}$
<b>Output Type</b>	NPN or PNP; N.O. only
<b>Switching Frequency</b>	250Hz
<b>(tv) Time Delay Before Availability</b>	20ms
<b>Protection from Input Voltage Transients</b>	Up to 30VDC
<b>Input Power Polarity Reversal Protection</b>	Yes
<b>Output Power Short-Circuit Protection</b>	Yes (switch autoresets after overload is removed)
<b>Temperature Range</b>	0° to +55° C (32° to 131° F)
<b>Temperature Drift</b>	$\leq 3\%$
<b>Interference to External Light</b>	3,000 lux (incandescent lamp) 10,000 lux (sunlight)
<b>Protection Degree (DIN 40050)</b>	IEC IP67
<b>Agency Approvals</b>	UL file E328811
<b>LED Indicators</b>	Yellow (output energized), yellow flashing (excess light indication)
<b>Housing Material</b>	Stainless steel
<b>Lens Material</b>	Glass
<b>Weight (cable/connector)</b>	76g (2.68 oz)/18g (0.63 oz)

## Dimensions (mm)

Figure 1

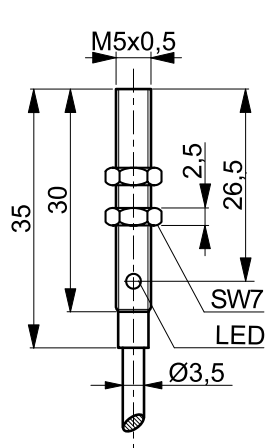
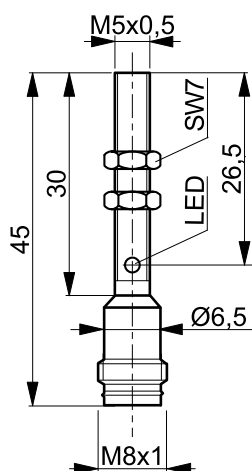


Figure 2



## Characteristic curves

Chart 1

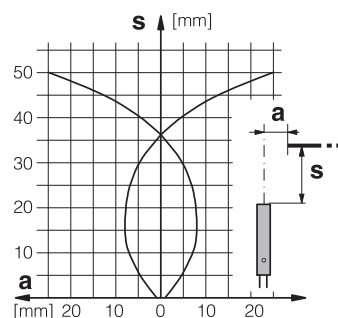


Chart 2

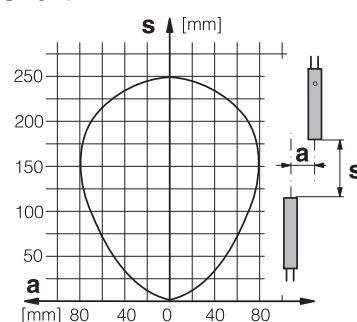


Chart 3

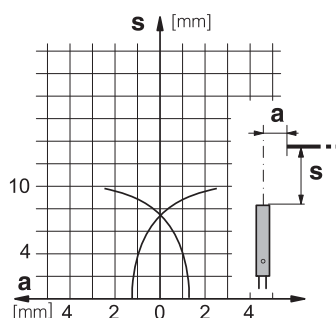
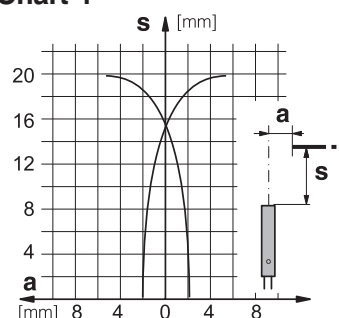


Chart 4



# Sensors Accessories: Cables

## 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

M8 Quick-Disconnect Cables (Pico, Nano)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
<b>M8 Quick-Disconnects</b>							
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
<b>M12 Quick-Disconnects</b>							
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 cables
- 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 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
<b>M12 Quick-Disconnects</b>							
EVC178*	<--->	2m (6.5ft)	4	Right-angle	Yes	PUR	Figure 12
EVC179*	<--->	5m (16.4ft)	4	Right-angle	Yes	PUR	Figure 12
EVC180*	<--->	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.



CD08-0A-020-A1 and -C1 shown



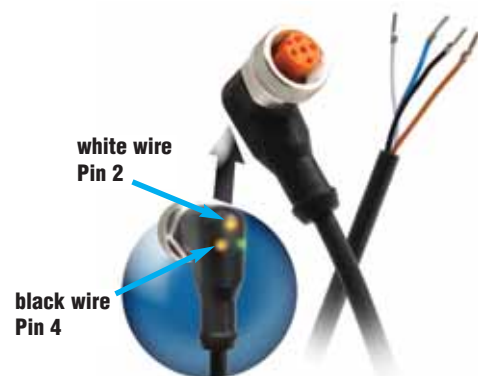
CD08-0A-050-A1 and -C1 shown



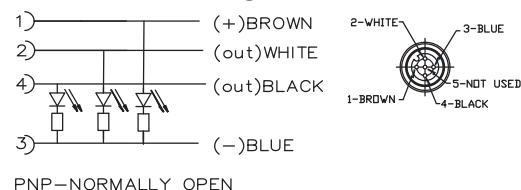
CD12L-0B-020-A0 and -C0 shown



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



### LED Models' Wiring



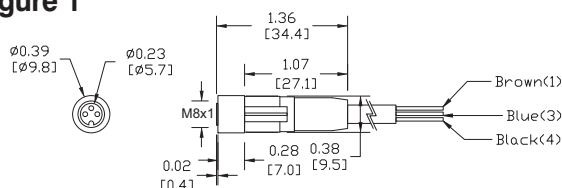
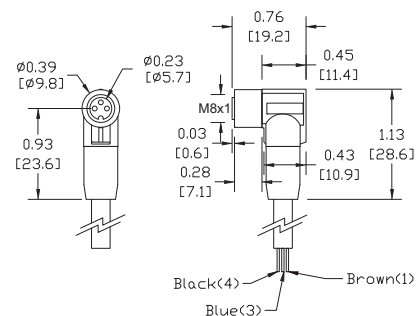
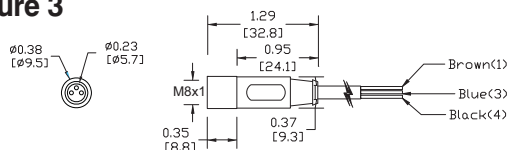
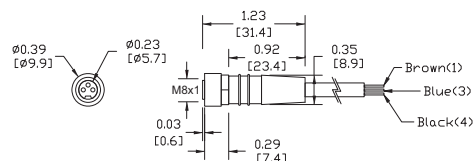
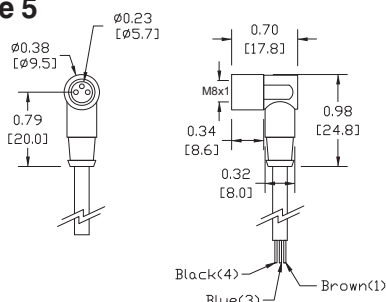
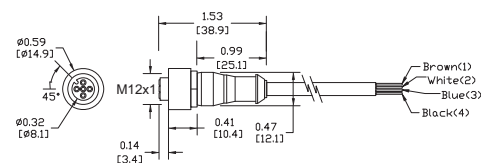
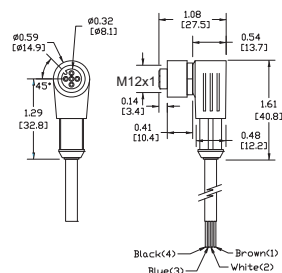
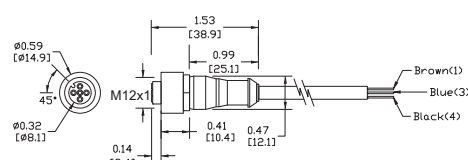
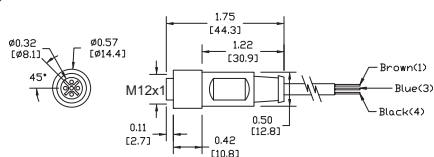
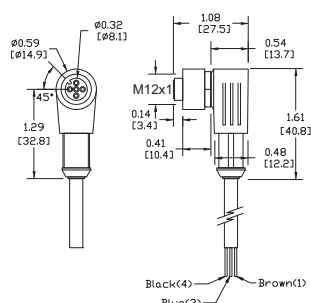
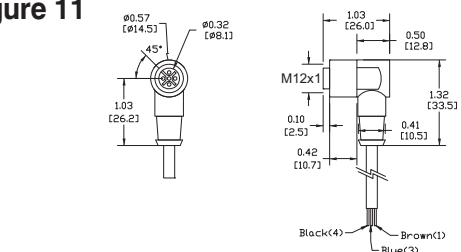
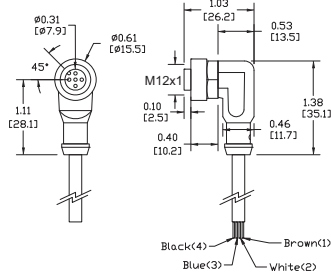
# Sensors Accessories: Cables

Cable Specifications					
Specification	M8		M12		M12 with LED
<b>Length</b>	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)
<b>Nominal Voltage</b>	50VAC/75VDC	60VAC/DC	300VAC	250VAC/DC	10 to 36VDC
<b>Max Current</b>	4A		4A		4A
<b>LED Current Loading</b>	N/A	N/A	N/A	N/A	<b>10V input</b> Brown wire LED: 1.7mA White and/or Black LED: 0.9mA <b>36V input</b> Brown wire LED: 7.3mA White and/or Black LED: 4.7mA
<b>Protection Degree</b>	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67 / IP68 / IP69K
<b>Material Nut</b>	brass; nickel plated		brass; nickel plated		brass; nickel plated
<b>Jacket Material</b>	PVC	PVC:CD08-0A-xxx. PUR:CD08-0C-xxx	PVC	PVC:CD12M-0B-xxx. PUR:CD12M-0D-xxx	PUR
<b>Housing Material</b>	PUR		PUR		PUR
<b>Contacts Material</b>	Copper-Tin Alloy (CuSn) -gold plated		Copper-Tin Alloy (CuSn) -gold plated		Gold plated brass
<b>Tightening Torque</b>	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 to 1.5 Nm
<b>Conductors Cross Section (AWG)</b>	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)
<b>Ø Outer Cable</b>	5mm	PVC: 4 mm PUR: 4 mm	5mm	PVC: 4.2 mm PUR: 4.3 mm	5mm
<b>Temperature Range</b>	-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)
<b>Environmental</b>	N/A	Halogen free, Silicone free	N/A	Halogen free, Silicone free	Halogen free, Silicone free
<b>Function Display Power LED</b>	N/A	N/A	N/A	N/A	Green
<b>Switching Status LED</b>	N/A	N/A	N/A	N/A	2 x Yellow
<b>Drag Chain (Roller Cable Tray) Suitability</b>	<b>Bending Radius</b>	min. 10 x cable diameter			
	<b>Bending Cycles</b>	N/A	N/A	N/A	>5 million
	<b>Travel Speed</b>	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>
	<b>Torsional Strain</b>	N/A	N/A	N/A	±180°/m
<b>Agency Approvals</b>	RoHS				UL File E191684, RoHS

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

# Sensors Accessories: Cables

## Dimensions (in/mm)

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**

**Figure 5**

**Figure 6**

**Figure 7**

**Figure 8**

**Figure 9**

**Figure 10**

**Figure 11**

**Figure 12**


# Sensors Accessories: Cables

## Patch cables with quick-disconnect 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 industrial applications
- IP67 rated



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

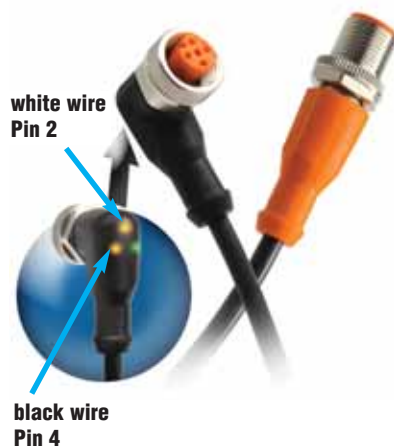
M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
<b>M12 Quick-disconnect Patch Cables</b>						
<b>CDP12-0B-010-AA</b>	<--->	1m (3.28ft)	4	2 Axial. One male and one female connector	PVC	Figure 4
<b>CDP12-0B-010-BB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

## Patch Cables with LED

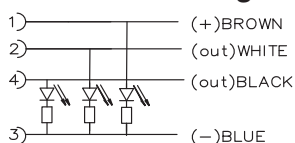
Available patch cables with LED include:

- 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 only



### LED Models' Wiring



PNP—NORMALLY OPEN



M12 Patch Cables with LED Indicator (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connectors	LED	Jacket	Dimensions
<b>M12 Patch Cables</b>							
<b>EVC322*</b>	<--->	0.3m (0.98ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
<b>EVC323*</b>	<--->	0.6m (1.97ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
<b>EVC324*</b>	<--->	1m (3.28ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
<b>EVC325*</b>	<--->	2m (6.5ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
<b>EVC326*</b>	<--->	5m (16.4ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
<b>EVC327*</b>	<--->	10m (32.8ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6

**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.**



# Sensors Accessories: Cables

Cable Specifications			
Specification	M8	M12	M12 with LED
<b>Length</b>	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)
<b>Nominal Voltage</b>	60 VAC/DC	250 VAC/DC	10 to 36VDC
<b>Max Current</b>	4A		4A
<b>LED Current Consumption</b>	N/A		<b>10V input</b> Brown wire LED: 1.7mA White and/or Black LED: 0.9mA <b>36V input</b> Brown wire LED: 7.3mA White and/or Black LED: 4.7mA
<b>Protection Degree</b>	IEC IP67		IEC IP67/IP68/IP69K
<b>Material Nut</b>	Brass: nickel plated		Brass: nickel plated
<b>Jacket Material</b>	PVC		PUR
<b>Housing Material</b>	PUR		Connector: Orange PUR, Socket: Black PUR
<b>Contacts Material</b>	Copper-tin(CuSn)=Brass		Brass; gold plated
<b>Conductors Cross Section (AWG)</b>	0.34mm <sup>2</sup>		0.34mm <sup>2</sup> (22 AWG)
<b>Tightening Torque</b>	0.5 Nm		<b>Plug:</b> 0.6 to 1.5 Nm (take into account the maximum value of the counterpart) <b>Socket:</b> 0.6 to 1.5 Nm
<b>Ø Outer Cable</b>	5mm		5mm
<b>Temperature Range</b>	-25° to +70°C (-13° to 158°F)		-25° to +90°C (-13° to 194°F)
<b>Function Display LED</b>	N/A		Green
<b>Switching Status LED</b>	N/A		2 x Yellow
<b>Drag Chain (Roller Cable Tray) Suitability</b>	<b>Bending Radius</b>	min. 10 x cable diameter	
	<b>Bending Cycles</b>	>5 million	
	<b>Travel Speed</b>	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>
	<b>Torsional Strain</b>	N/A	±180°/m
<b>Agency Approvals</b>	RoHS		UL File E191684, RoHS

UL Reference	
Part Number	Cable Assemblies Series M12, UL Catalog Number
<b>EVC322</b>	VDOAH043MSS00.3H04STGH040MSS
<b>EVC323</b>	VDOAH043MSS00.6H04STGH040MSS
<b>EVC324</b>	VDOAH043MSS0001H04STGH040MSS
<b>EVC325</b>	VDOAH043MSS0002H04STGH040MSS
<b>EVC326</b>	VDOAH043MSS0005H04STGH040MSS
<b>EVC327</b>	VDOAH043MSS0010H04STGH040MSS
<b>Note: Shown in UL file under Cable Assemblies using catalog number</b>	

# Sensors Accessories: Cables

Dimensions (in/mm)

Figure 1

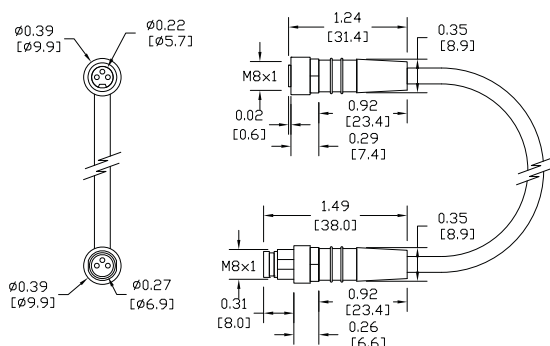


Figure 2

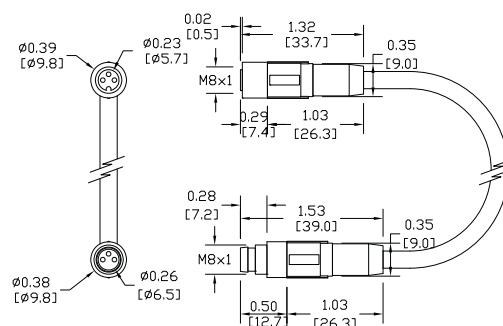


Figure 3

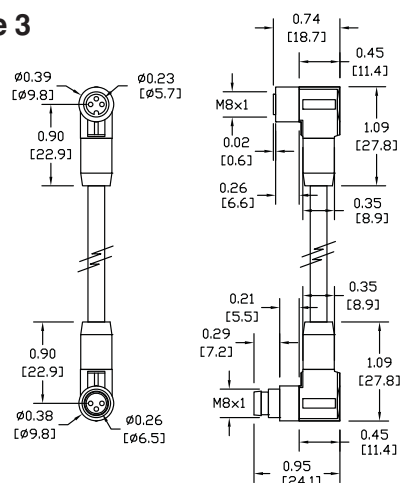


Figure 4

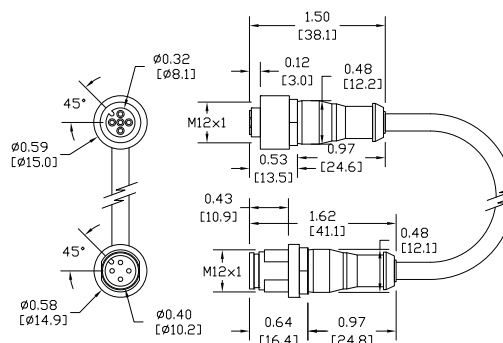


Figure 5

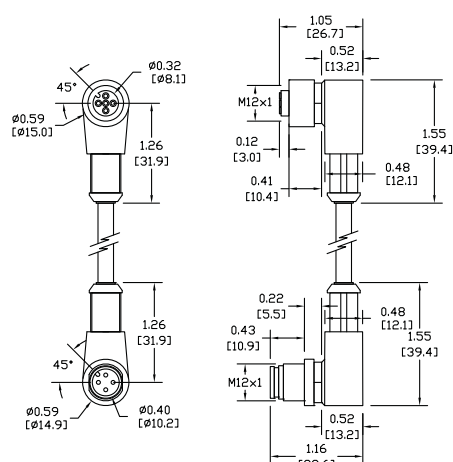
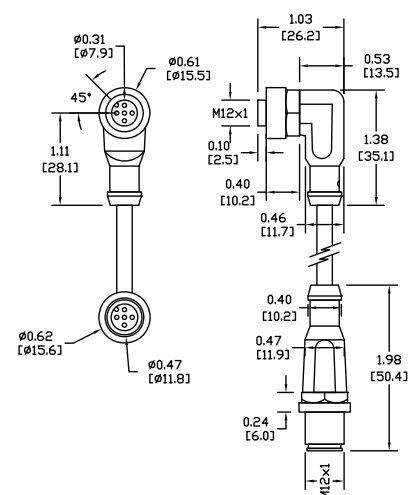


Figure 6

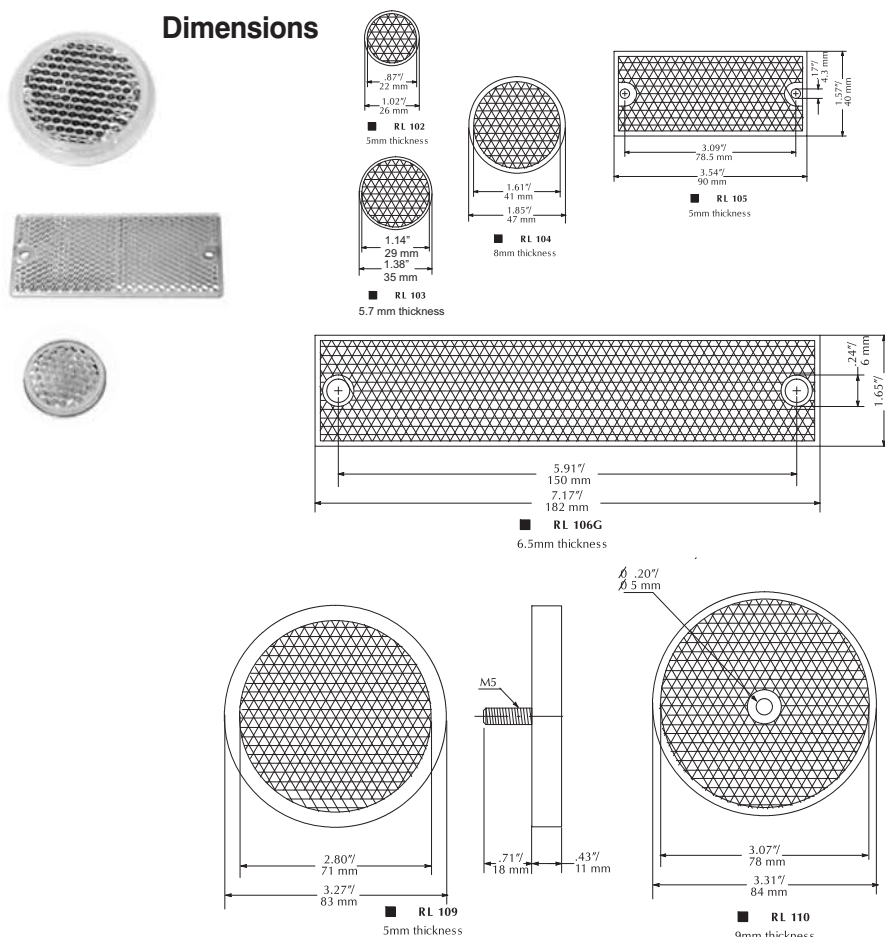




# Accessories: Reflectors and Shutters

## 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 of  $\pm 15^\circ$ .

Specifications							
Model	RL102	RL103	RL104	RL105	RL106G	RL109	RL110 <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-supplied adhesive or other mounting method required			two Ø4.3mm holes	two Ø6mm holes	one M5 stud	one Ø5mm hole
Materials	Reflective face: PMMA Polymethylmethacrylate (acrylic); base material: ABS (Acrylonitrile-butadiene-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
- 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.

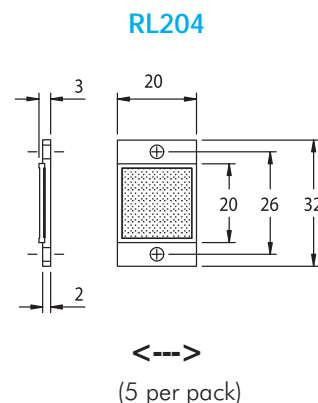
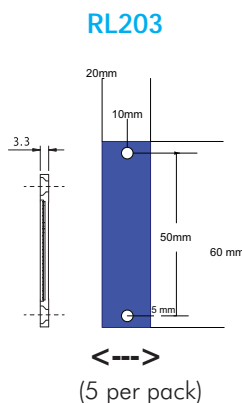
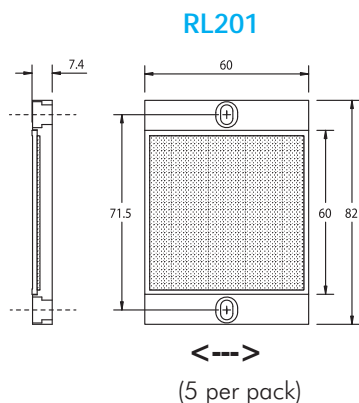
Sensing Distance (when used with SSE / SSR Model Photoelectric switches)						
Model	ST0S1	ST0S2	ST0S3	ST0S4	ST0S6	ST0S8
Pieces Per Pack	1	1	1	1	1	1
Price	<--->	<--->	Discontinued	<--->	<--->	<--->
Ø x shutter (mm)	1	2	3	4	6	8
Distance (m)	N/A	N/A	1	1.5	3.5	6.5
object (mm)	N/A	N/A	1.5	2	3	4

# 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			
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.			

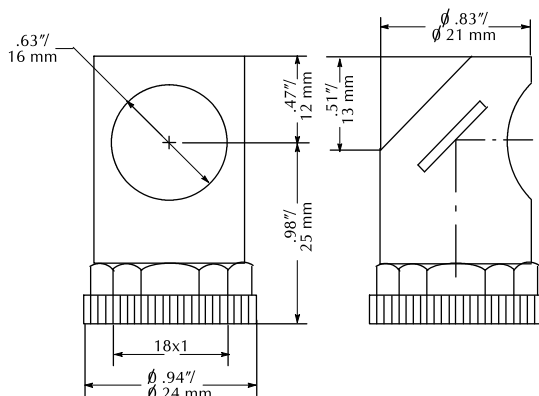


## ST03 right-angle M18 (18 mm) beam adapter

For use with M18 retroreflective 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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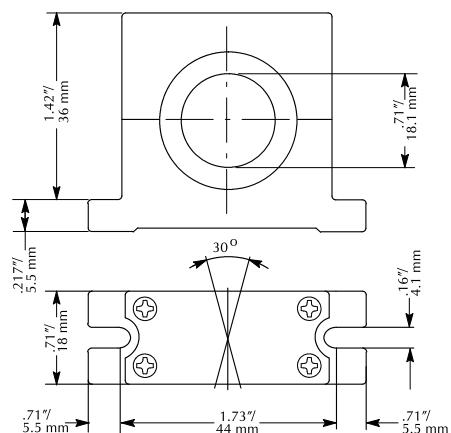


## ST02 plastic swivel bracket M18 (18 mm)

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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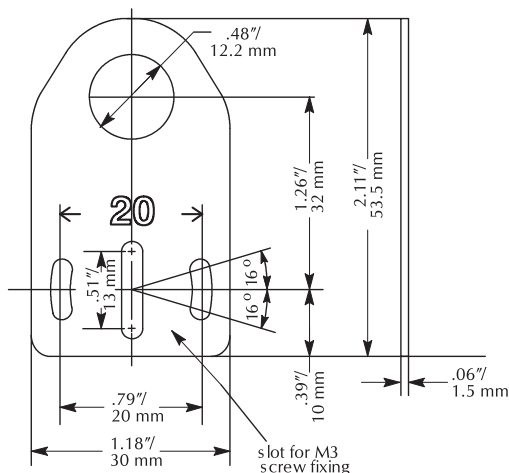
# Accessories: Mounting Brackets

## 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
<b>ST12A</b>	<--->	Metal axial bracket for 12 mm sensors, 1/pk
<b>ST12A7W</b>	<--->	316L stainless steel axial bracket for 12 mm sensors, 1/pk

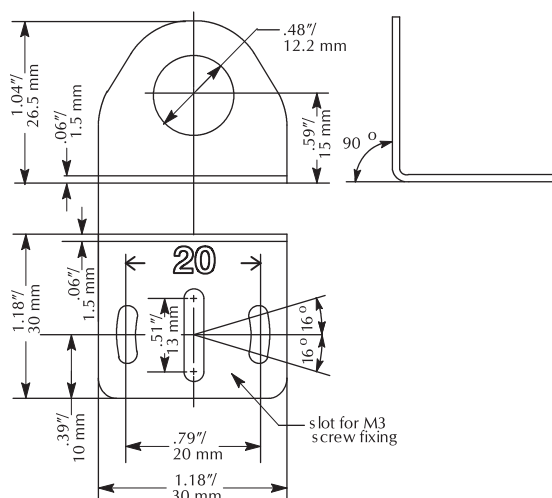


## ST12C right-angle bracket

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.



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

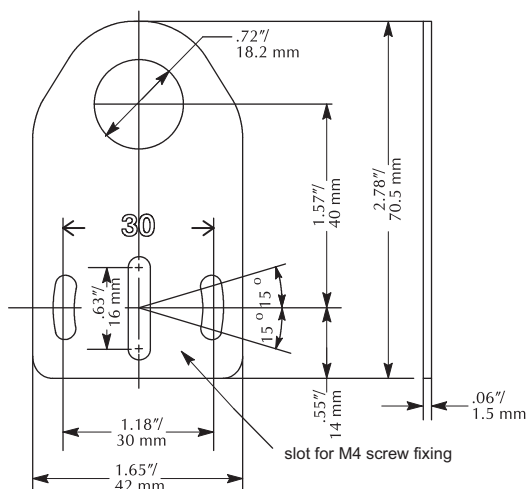


## ST18A axial bracket

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.



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

