

QX Series Photoelectric Sensors



Rectangular plastic - DC

- 10 models available, including diffuse, polarized reflective, and through-beam detection
- Axial or right-angle optics
- Fast response time
- NPN/PNP selectable output
- 2 LED indicators (threshold and signal margin)
- IP65 rated



QX Series Photoelectric Sensor Selection Chart

Part Number	Price	Sensing Range	Output State*	Optics	Logic	Connection	Wiring	Dimensions	Characteristic Curves
Diffuse									
QX3-A0-1E	<--->	300m (11.81in)	N.O.	Axial	NPN/PNP selectable	M12 (12mm) connector	Diagram 1	Figure 2	Chart 1
Polarized reflective*									
QXP-A0-2A	<--->	2.5m (78.74in)	N.O.	Right-angle	NPN/PNP selectable	2m (6.5') axial cable	Diagram 1	Figure 3	Chart 2
Through-beam**									
QXR-A0-1A	Receiver	<--->	N.O.	Axial	NPN/PNP selectable	2m (6.5') axial cable	Diagram 1	Figure 1	Chart 3
QXR-A0-1E	Receiver	<--->		Axial		M12 (12mm) connector	Diagram 1	Figure 2	Chart 3
QXX-00-1A	Emitter	<--->		Axial	Receiver dependent	2m (6.5') axial cable	Diagram 2	Figure 1	Chart 3
QXX-00-1E	Emitter	<--->		Axial		M12 (12mm) connector	Diagram 2	Figure 2	Chart 3
QXR-A0-2A	Receiver	<--->	N.O.	Right-angle	NPN/PNP selectable	2m (6.5') axial cable	Diagram 1	Figure 3	Chart 3
QXR-A0-2E	Receiver	<--->		Right-angle		M12 (12mm) connector	Diagram 1	Figure 4	Chart 3
QXX-00-2A	Emitter	<--->		Right-angle	Receiver dependent	2m (6.5') axial cable	Diagram 2	Figure 3	Chart 3
QXX-00-2E	Emitter	<--->		Right-angle		M12 (12mm) connector	Diagram 2	Figure 4	Chart 3

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

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

Switching Element Function

	Thru-beam and Reflective Models	Diffuse Reflective Models
Light on	N.C.	N.O.
Dark on	N.O.	N.C.

Wiring diagrams

Diagram 1

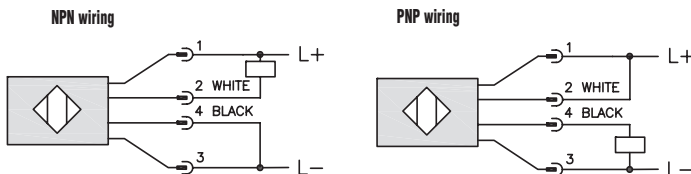
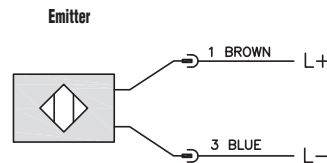


Diagram 2

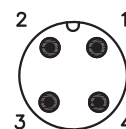


Check input test circuit (QXX models only): To test that the sensor is operating correctly, apply 10.8-30VDC across the WH/2 (+) and BK/4 (-) leads, which are decoupled from the power supply. In light state, light pulses are interrupted, which simulates the presence of a target and causes the output to switch. If switching does not occur, check for a fault in the system.

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

Connector

M12 connector



QX Series Photoelectric Sensors

Dimensions

(M3 x 0.5 screws included with sensor)

(inches/mm)

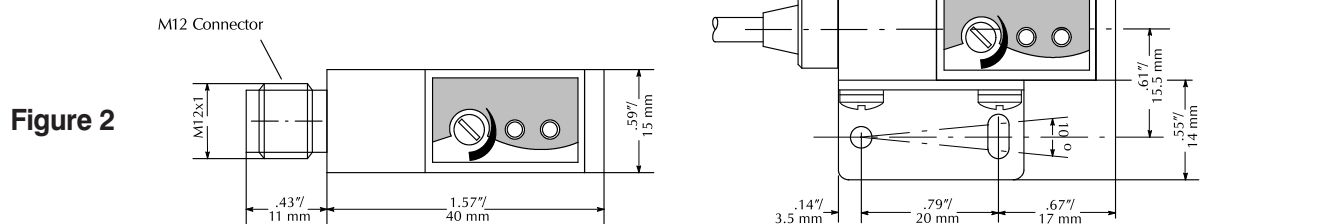
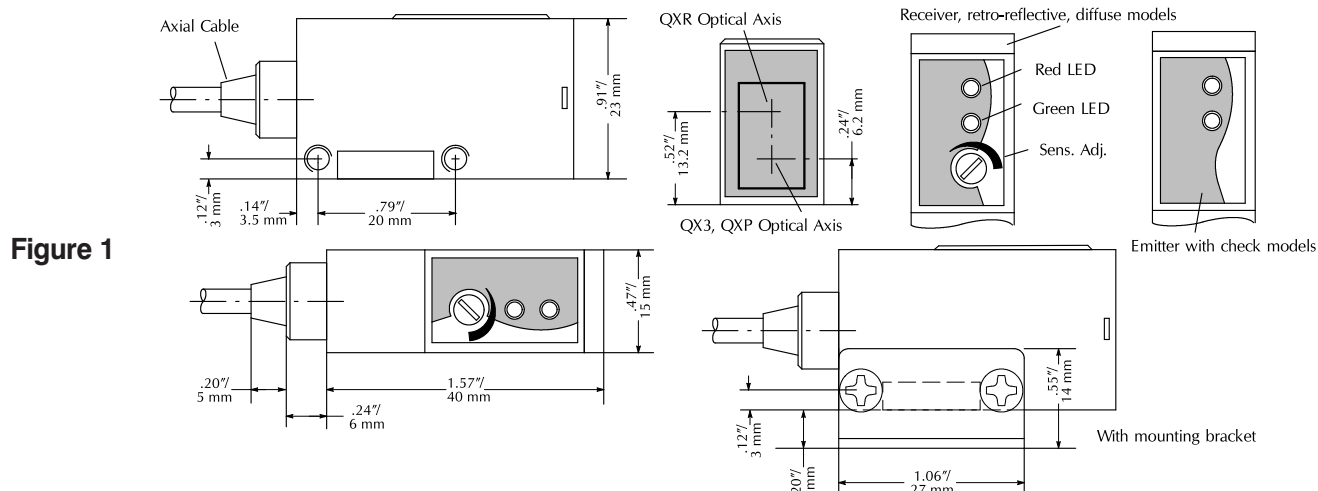


Figure 3

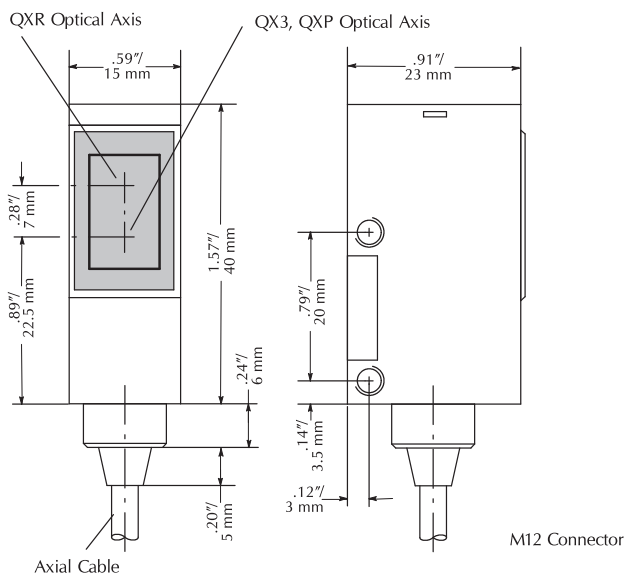
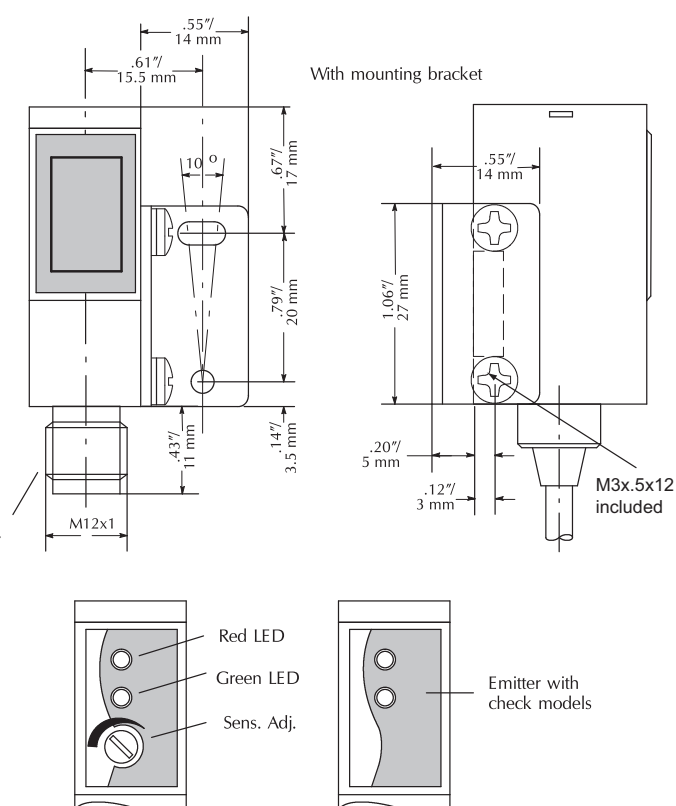


Figure 4



QX Series Photoelectric Sensors

Specifications	Diffuse Models	Reflective Models	Through-Beam Models
Type	Diffuse reflection ¹	Polarized reflection ²	Through-beam ³
Sensing Distance	300mm ⁴	2.5m ⁵	8m
Light Spot Diameter	N/A	40mm @ 2.5 m	300mm @ 8 m
Emission	infrared (880nm)	red (660nm)	
Sensitivity	Adjustable one-turn pot.		
Output Type	NPN/PNP selectable/N.O. only		
Operating Voltage	10.8-30VDC		
No-load Supply Current	20mA		20mA (emitter), 5mA (receiver)
Operating (Load) Current	300mA		
Off-state (Leakage) Current	10µA max at 30VDC		
Voltage Drop	1.2 volt maximum at 100mA		
Switching Frequency	750Hz (Tr=0.5ms)		500Hz (Tr=0.75ms)
Ripple	10% max.		
Time Delay Before Availability (tv)	200 ms		
Short-Circuit Protection	Yes, (switch autoresets after overload is removed)		
Operating Temperature	-25° to +70°C (-13° to 158°F)		
Protection Degree (DIN 40050)	IEC IP65		
LED Indicators - Switching Status	See Dimensions on previous page		
Housing Material	ABS (glass reinforced)		
Lens Material	Acrylic		
Shock/Vibration	See terminology section		
Tightening Torque	N/A		
Weight	70g (2.47oz)		
Connectors	2m (6.5') axial cable; M12 (12 mm) connector		
Agency Approvals	UL recognized, E130644, CE		

¹Mounting bracket included

²Mounting bracket and Ø84mm round reflector included (RL110). Purchase additional reflectors separately.

³An emitter (QXX) and receiver (QXR) pair is needed for a complete sensor set.

⁴With 100X100mm white matte paper

⁵With standard Ø84mm reflector (RL110)

Characteristic curves

Chart 1

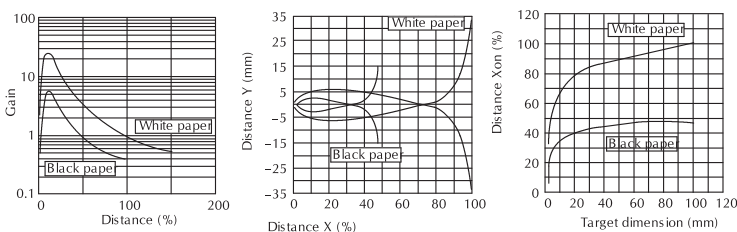


Chart 2

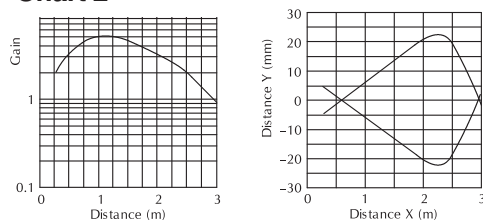
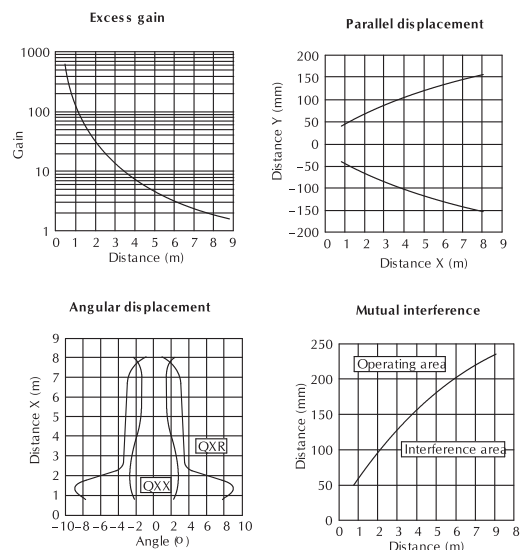


Chart 3



Sensor Cables and Connectors

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, 3m, 5m, 7m, 10m and 15m cable lengths
- PVC (polyvinyl chloride) jacket for typical industrial applications
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated



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



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



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



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



7000-12221-2141000



7000-12241-2150500



7000-17041-2951000



7000-19041-7050500

M8 Quick-Disconnect Cables (Pico, Nano)						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M8 Quick-Disconnects						
CD08-0A-020-A1	<--->	2m (6.5 ft.)	3	Axial female	PVC	Figure 1
CD08-0A-020-C1	<--->	2m (6.5 ft.)	3	Right-angle female	PVC	Figure 2
CD08-0A-050-A1	<--->	5m (16.4 ft.)	3	Axial female	PVC	Figure 4
CD08-0C-050-A1	<--->	5m (16.4 ft.)	3	Axial female	PUR	Figure 3
CD08-0A-050-C1	<--->	5m (16.4 ft.)	3	Right-angle female	PVC	Figure 5
CD08-0C-050-C1	<--->	5m (16.4 ft.)	3	Right-angle female	PUR	Figure 5
CD08-0A-070-A1	<--->	7m (23 ft.)	3	Axial female	PVC	Figure 1
CD08-0A-070-C1	<--->	7m (23 ft.)	3	Right-angle female	PVC	Figure 2

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M12 Quick-Disconnects						
CD12M-0B-050-A1*	<--->	5m (16.4 ft.)	3	Axial female	PVC	Figure 8
CD12M-0D-050-A1*	<--->	5m (16.4 ft.)	3	Axial female	PUR	Figure 9
CD12M-0B-050-C1*	<--->	5m (16.4 ft.)	3	Right-angle female	PVC	Figure 10
CD12M-0D-050-C1*	<--->	5m (16.4 ft.)	3	Right-angle female	PUR	Figure 11
CD12L-0B-020-A0	<--->	2m (6.5 ft.)	4	Axial female	PVC	Figure 6
CD12L-0B-020-C0	<--->	2m (6.5 ft.)	4	Right-angle female	PVC	Figure 7
CD12M-0B-070-A1	<--->	7m (23 ft.)	4	Axial female	PVC	Figure 6
CD12M-0B-070-C1	<--->	7m (23 ft.)	4	Right-angle female	PVC	Figure 7
7000-12221-2141000	<--->	10m (32.8 ft.)	4	Axial female	PVC	Figure 13
7000-12221-2141500	<--->	15m (49.2 ft.)	4	Axial female	PVC	Figure 13
7000-12341-2141000	<--->	10m (32.8 ft.)	4	Right-angle female	PVC	Figure 14
7000-12341-2141500	<--->	15m (49.2 ft.)	4	Right-angle female	PVC	Figure 14
7000-12241-2150300	<--->	3m (9.8 ft.)	5	Axial female	PVC	Figure 15
7000-12241-2150500	<--->	5m (16.4 ft.)	5	Axial female	PVC	Figure 15
7000-12241-2151000	<--->	10m (32.8 ft.)	5	Axial female	PVC	Figure 15
7000-12361-2150300	<--->	3m (9.8 ft.)	5	Right-angle female	PVC	Figure 16
7000-12361-2150500	<--->	5m (16.4 ft.)	5	Right-angle female	PVC	Figure 16
7000-12361-2151000	<--->	10m (32.8 ft.)	5	Right-angle female	PVC	Figure 16
7000-17041-2950300	<--->	3m (9.8 ft.)	8	Axial female	PUR	Figure 17
7000-17041-2950500	<--->	5m (16.4 ft.)	8	Axial female	PUR	Figure 17
7000-17041-2951000	<--->	10m (32.8 ft.)	8	Axial female	PUR	Figure 17
7000-17061-2950300	<--->	3m (9.8 ft.)	8	Right-angle female	PUR	Figure 18
7000-17061-2950500	<--->	5m (16.4 ft.)	8	Right-angle female	PUR	Figure 18
7000-17061-2951000	<--->	10m (32.8 ft.)	8	Right-angle female	PUR	Figure 18
7000-19041-7050300	<--->	3m (9.8 ft.)	12	Axial female	PUR	Figure 19
7000-19041-7050500	<--->	5m (16.4 ft.)	12	Axial female	PUR	Figure 19
7000-19041-7051000	<--->	10m (32.8 ft.)	12	Axial female	PUR	Figure 19
7000-19061-7050300	<--->	3m (9.8 ft.)	12	Right-angle female	PUR	Figure 20
7000-19061-7050500	<--->	5m (16.4 ft.)	12	Right-angle female	PUR	Figure 20
7000-19061-7051000	<--->	10m (32.8 ft.)	12	Right-angle female	PUR	Figure 20

* Note: Do not use with sensors that require 4-pole cables.

Sensor Cables and Connectors

Shielded M12 Cables with quick-disconnect plugs



7000-17121-2941000



7000-17141-2940500

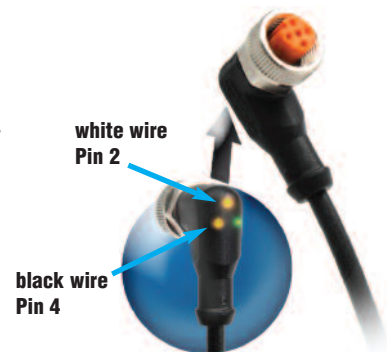
- Industry standard axial and right-angle M12 screw-lock connectors with open leads
- Braided shield located inside the cord jacket and connected to the coupling nut
- 5m and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated

Shielded M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M12 Quick-Disconnects (shielded)						
7000-13201-3310500	<--->	5m (16.4 ft)	4	Axial female	PUR	Figure 21
7000-13201-3311000	<--->	10m (32.8 ft)	4	Axial female	PUR	Figure 21
7000-13261-3310500	<--->	5m (16.4 ft)	4	Right-angle female	PUR	Figure 22
7000-13261-3311000	<--->	10m (32.8 ft)	4	Right-angle female	PUR	Figure 22
7000-13221-3490500	<--->	5m (16.4 ft)	5	Axial female	PUR	Figure 23
7000-13221-3491000	<--->	10m (32.8 ft)	5	Axial female	PUR	Figure 23
7000-13281-3490500	<--->	5m (16.4 ft)	5	Right-angle female	PUR	Figure 24
7000-13281-3491000	<--->	10m (32.8 ft)	5	Right-angle female	PUR	Figure 24
7000-17121-2940500	<--->	5m (16.4 ft)	8	Axial female	PUR	Figure 25
7000-17121-2941000	<--->	10m (32.8 ft)	8	Axial female	PUR	Figure 25
7000-17141-2940500	<--->	5m (16.4 ft)	8	Right-angle female	PUR	Figure 26
7000-17141-2941000	<--->	10m (32.8 ft)	8	Right-angle female	PUR	Figure 26

Cables with LED and quick-disconnect plugs

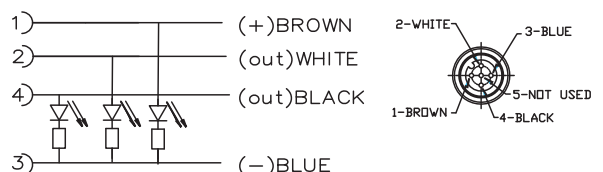
- Industry standard M12 right angle female-plug with open leads
- These cables can be used with patch cables.
- 2m, 5m and 10m cable lengths

- 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
M12 Quick-Disconnects							
EVC178*	<--->	2m (6.5 ft)	4	Right-angle female	Yes	PUR	Figure 12
EVC179*	<--->	5m (16.4 ft)	4	Right-angle female	Yes	PUR	Figure 12
EVC180*	<--->	10m (32.8 ft)	4	Right-angle female	Yes	PUR	Figure 12
<i>*Note: LED for 10 to 36 VDC PNP devices only.</i> <i>Do not use with NPN or analog output devices.</i> <i>Do not use when white wire (Pin 2) is used for selection of a sensor function.</i> <i>Do not use when emitter has check function.</i>							

LED Models' Wiring



Sensor Cables and Connectors

Cable Specifications					
Specification	M8		M12		
			CD Series		7000 Series (unshielded)
Length	2m (6.5 ft) / 7m (23 ft)	5m (16.4 ft)	2m (6.5 ft) / 7m (23 ft)	5m (16.4 ft)	3m (9.8 ft) / 5m (16.4 ft) / 10m (32.8 ft) / 15m (49.2 ft)
Nominal Voltage	50 VAC/75 VDC	60 VAC/VDC	300 VAC	250 VAC/VDC	30 VAC/VDC; 125 VAC/VDC; 250 VAC/VDC
Max Current	4A		4A		3/4 pin: 250 VAC/VDC, 4A 5 pin: 125 VAC/VDC, 4A 8 pin: 30 VAC/VDC, 2A 12 pin: 30 VAC/VDC, 1.5A
LED Current Loading	N/A				
Protection Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67
Material Nut	Nickel plated brass				Nickel plated Zinc
Housing Material	Polyurethane (PUR)				
Contacts Material	Gold plated Copper-Tin Alloy (CuSn)				Gold plated brass
Tightening Torque	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 Nm
Conductors Cross Section (AWG)	0.25 mm ² (24 AWG)	0.25 mm ² (24 AWG)	0.25 mm ² (24 AWG)	0.34 mm ² (22 AWG)	4 x 0.34 mm ² (4 x 22 AWG) 5 x 0.34 mm ² (5 x 22 AWG) 8 x 0.25 mm ² (8 x 24 AWG) 12 x 0.14 mm ² (12 x 26 AWG)
Ø Outer Cable	5mm	PVC: 4mm PUR: 4mm	5mm	PVC: 4.2 mm PUR: 4.3 mm	PVC: 5 - 5.2 mm PUR: 6.0 mm
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)	PVC: -25° to +70°C (-13° to 158°F) PUR: -25° to +85°C (-13° to 185°F)
Environmental	N/A	Halogen/Silicone free	N/A	Halogen/Silicone free	N/A
Function Display Power LED	N/A				
Switching Status LED	N/A				
Drag Chain (Roller Cable Tray) Suitability	Bending Radius	min. 10 x cable diameter			
	Bending Cycles	N/A			
	Travel Speed	N/A			
	Torsional Strain	N/A			
Agency Approvals	RoHS				RoHS (UL E325311 8/12 pole)

Sensor Cables and Connectors

Cable Specifications		
Specification	M12 7000 Series (shielded)	M12 with LED
Length	5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)
Nominal Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC
Max Current	2A / 4A	4A
LED Current Loading	N/A	10 V input Brown wire LED: 1.7 mA White and/or Black LED: 0.9 mA 36V input Brown wire LED: 7.3 mA White and/or Black LED: 4.7 mA
Protection Degree	IP67	IP67 / IP68 / IP69K
Material Nut	Nickel plated Zinc	Nickel plated Brass
Jacket Material	Polyurethane (PUR)	
Housing Material	Polyurethane (PUR)	
Contacts Material	Gold plated Brass	
Tightening Torque	0.6 Nm	0.6 to 1.5 Nm
Conductors Cross Section (AWG)	4 x 0.34 mm ² (4 x 22 AWG) 5 x 0.34 mm ² (5 x 22 AWG) 8 x 0.25 mm ² (8 x 24 AWG)	4 x 0.34 mm ² (4 x 22 AWG)
Ø Outer Cable	4/5 pole: 5.9 mm 8 pole: 7mm	5mm
Temperature Range	-25° to +80°C (-13° to 176°F)	-25° to +90°C (-13° to 194°F)
Function Display Power LED	N/A	Green
Switching Status LED	N/A	2 x Yellow
Drag Chain (Roller Cable Tray) Suitability	Bending Radius	min. 10 x cable diameter
	Bending Cycles	N/A
	Travel Speed	N/A
	Torsional Strain	N/A
Agency Approvals	RoHS	UL File E191684, RoHS

UL Reference	
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	

Sensor Cables and Connectors

Dimensions

mm [inches]

Figure 1

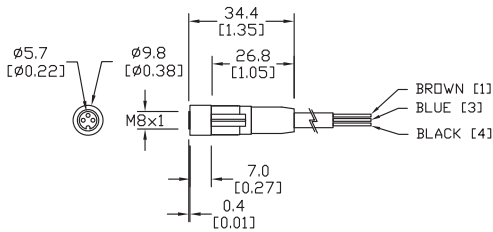


Figure 2

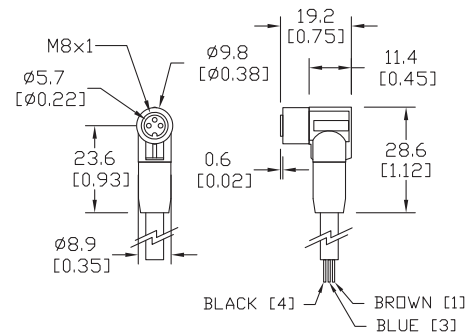


Figure 3

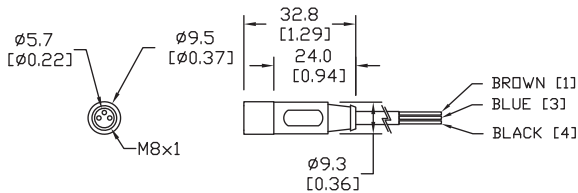


Figure 4

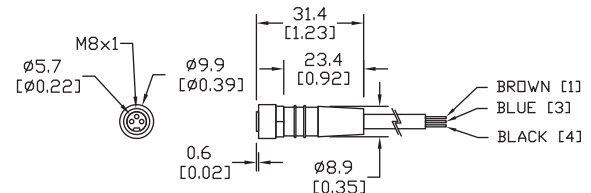


Figure 5

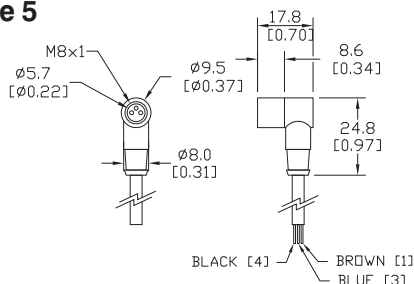


Figure 6

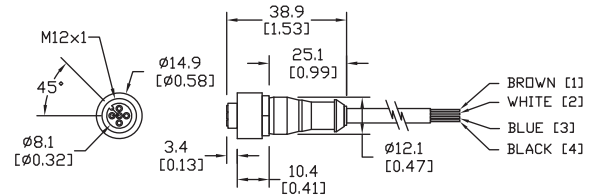


Figure 7

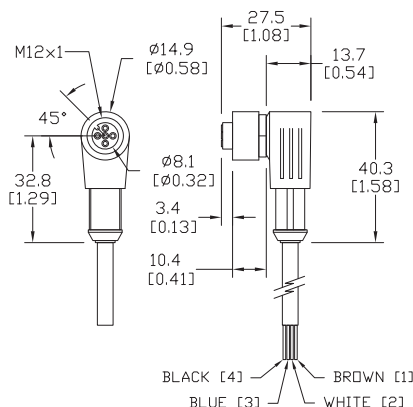
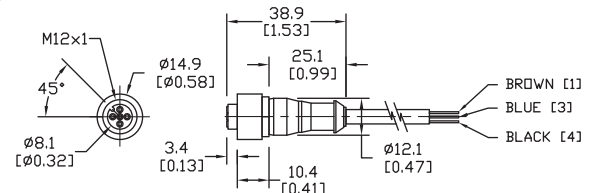


Figure 8



Sensor Cables and Connectors

Dimensions

mm [inches]

Figure 9

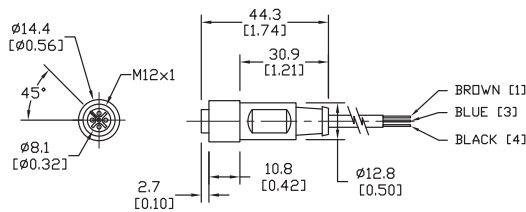


Figure 10

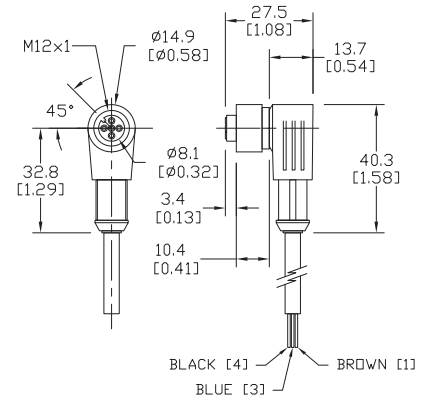


Figure 11

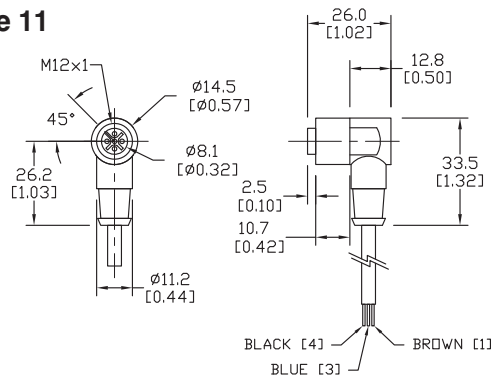


Figure 12

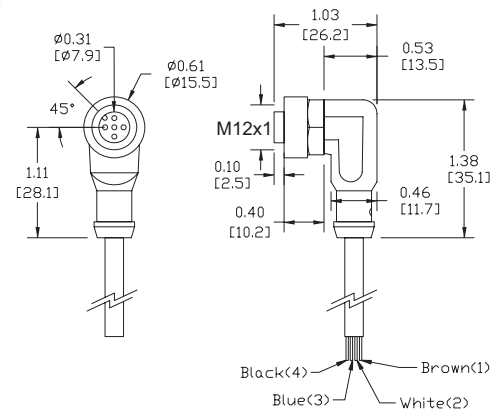


Figure 13

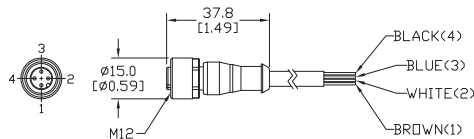


Figure 15

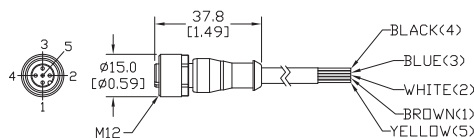


Figure 14

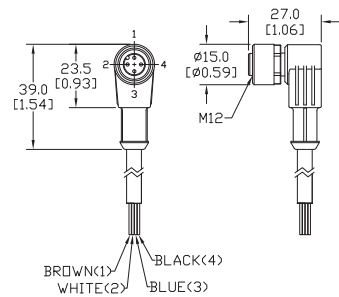
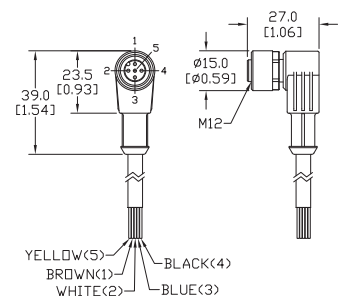


Figure 16



Sensor Cables and Connectors

Dimensions

mm [inches]

Figure 17

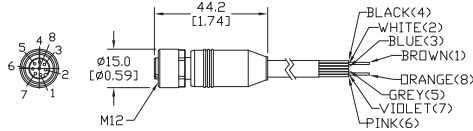


Figure 18

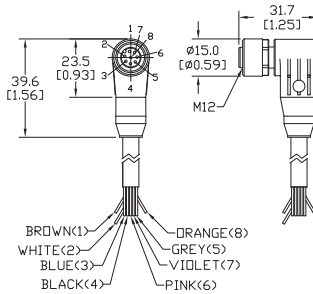


Figure 19

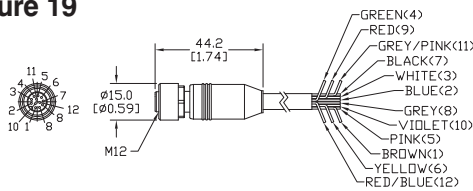


Figure 20

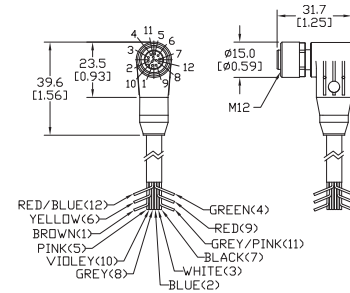


Figure 21

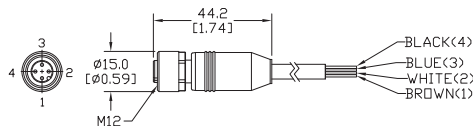


Figure 22

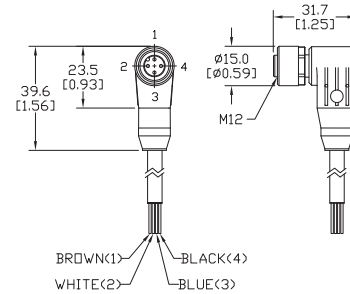


Figure 23

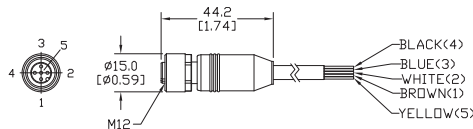


Figure 24

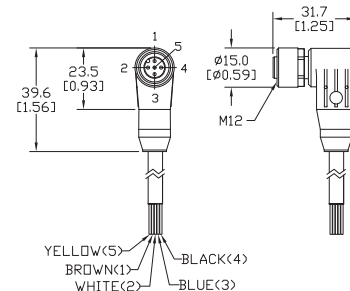


Figure 25

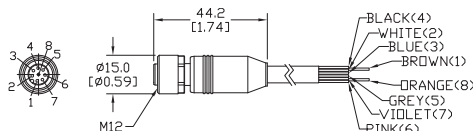
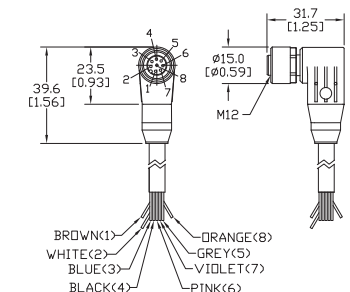


Figure 26



Accessories: Reflectors and Shutters

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

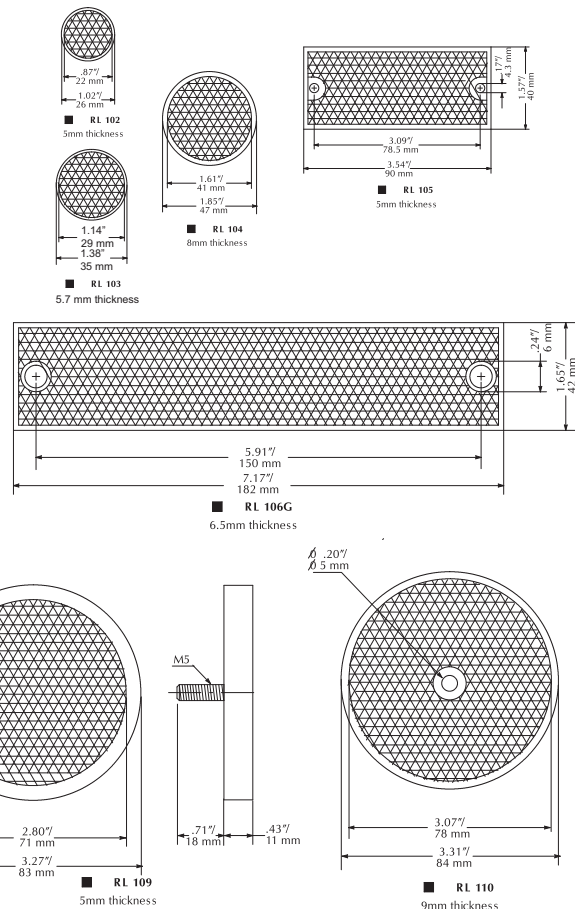
- Suitable for use with polarized light photoelectric sensors
- Shapes and sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- Single hole, dual hole and stud mounting types available
- 10 reflectors per package

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 $\pm 15^\circ$.

Dimensions

inches [mm]



Specifications						
Model	RL102	RL103	RL104	RL105	RL106G	RL110 ³
Price (10 per pack)	<--->	<--->	<--->	<--->	<--->	<--->
% Sensing Range Using SSP ¹	50%	40%	50%	50%	50%	100%
% Sensing Range Using QXP ¹	--	35%	60%	50%	45%	100%
Dimensions	Ø26mm	Ø36mm	Ø47mm	90x40mm	182x42mm	Ø84mm
Degree of Protection ²	IEC IP67					
Mounting	Customer-supplied adhesive or other mounting method required			two Ø4.3mm holes	two Ø6mm holes	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)

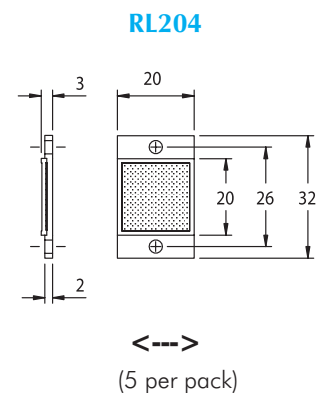
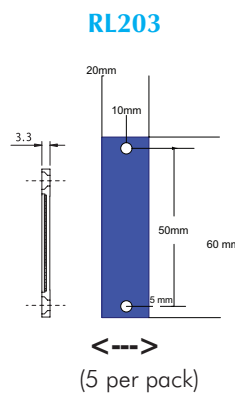
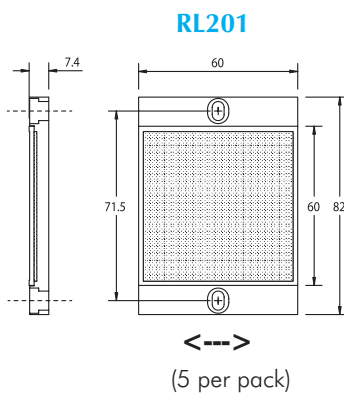
Model	ST0S1	ST0S2	ST0S3	ST0S4	ST0S6	ST0S8
Pieces Per Pack	1	1	1	1	1	1
Price	<--->	<--->	Discontinued	<--->	<--->	<--->
Ø x shutter (mm)	1	2	3	4	6	8
Distance (m) object (mm)	N/A N/A	N/A N/A	1 1.5	1.5 2	3.5 3	6.5 4

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 ¹	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 ²	IEC IP67		
Materials	Acrylic/polycarbonate		
<i>1 Refer to individual catalog pages for detailed explanations of these photoelectric sensors.</i>			
<i>2 Not recommended for applications involving moist air environments or water immersion.</i>			
<i>Note: All reflective sensors are shipped with an RL110 reflector. Purchase additional reflectors separately.</i>			

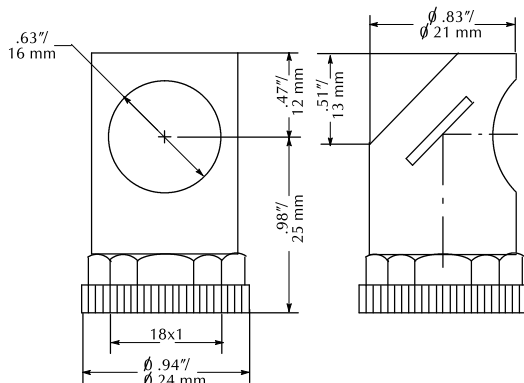


ST03 right-angle M18 (18 mm) beam adapter

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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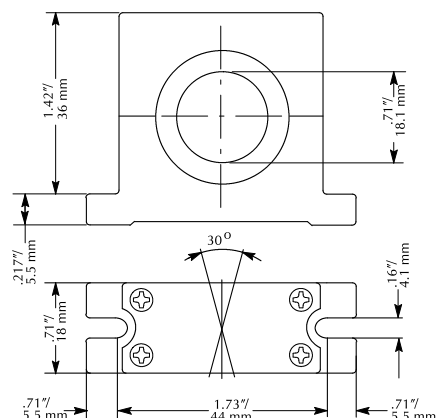


ST02 plastic swivel bracket M18 (18 mm)

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.

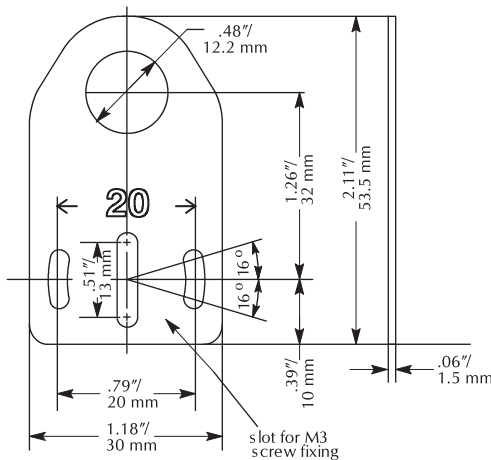


ST12C right-angle bracket

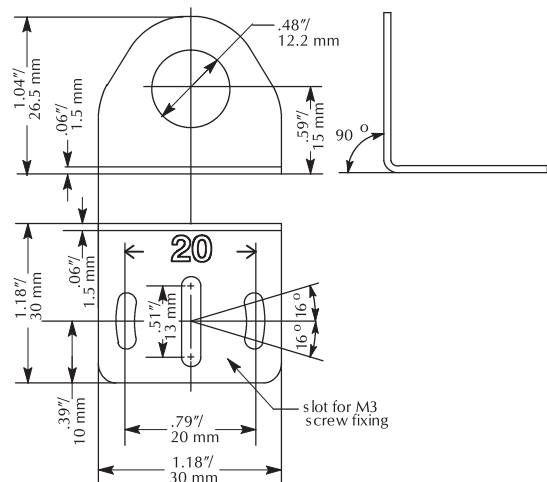
Angular mounting bracket for use with M12 (12 mm) sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors.



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



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



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.

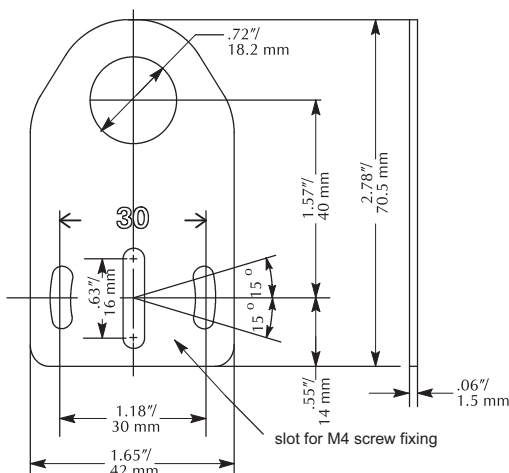


ST18C right-angle bracket

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



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

