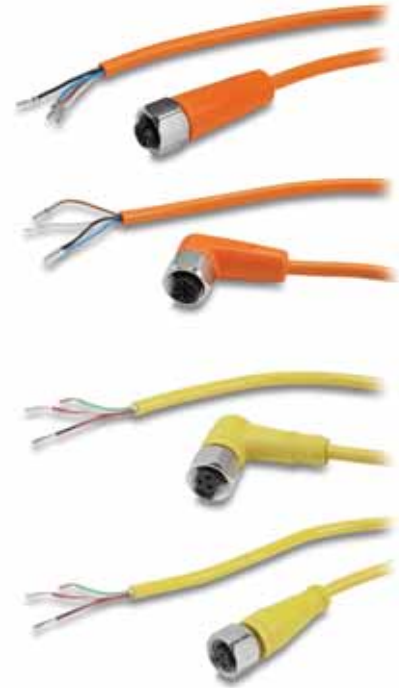


Sensors Accessories: IP69K-rated Cables

Cables with quick-disconnect plugs

- Industry standard axial and right-angle M12 or 1/2" Micro connectors with open leads
- 5m and 10m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rated for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
M12 Quick-Disconnects							
EVT221	<--->	5m (16.4ft)	4	Axial	No	Orange PVC	Figure 4
EVT222	<--->	5m (16.4ft)	4	Right-angle	No	Orange PVC	Figure 1
EVT223	<--->	10m (32.8ft)	4	Axial	No	Orange PVC	Figure 4
EVT224	<--->	10m (32.8ft)	4	Right-angle	No	Orange PVC	Figure 1
Micro AC Volt 1/2 Inch - 20 UNF Cables							
1/2" Quick-Disconnects							
E18446	<--->	5m (16.4ft)	3	Axial	No	Yellow PVC	Figure 6
E18447	<--->	5m (16.4ft)	3	Right-angle	No	Yellow PVC	Figure 5
E18448	<--->	10m (32.8ft)	3	Axial	No	Yellow PVC	Figure 6
E18449	<--->	10m (32.8ft)	3	Right-angle	No	Yellow PVC	Figure 5



Patch cables with quick-disconnect plugs on each end

Available patch cables include:

- Industry standard M12 screw-lock connectors
- One male and one female connector
- Axial and right-angle connector models
- 0.3m, 0.6m, 1m, 2m and 5m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rating, suitable for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M12 Quick-Disconnect Patch Cables						
EVT225	<--->	0.3m (0.98ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT226	<--->	0.3m (0.98ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT227	<--->	0.6m (1.97ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT228	<--->	0.6m (1.97ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT229	<--->	1m (3.3ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT230	<--->	1m (3.3ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT231	<--->	2m (6.6ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT232	<--->	2m (6.6ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT233	<--->	5m (16.4ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT234	<--->	5m (16.4ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2

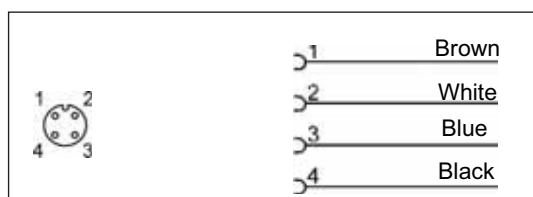


Sensors Accessories: IP69K-rated Cables

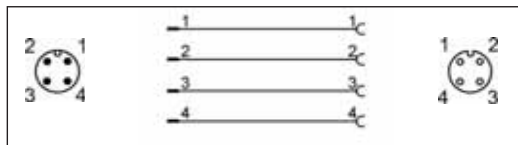
Cable Specifications		
Specification	M12	1/2"
Length	0.3m (0.98ft), 0.6m (1.97ft), 1m (3.3ft), 2m (6.6ft), 5m (16.4ft), 10m (32.8ft)	5m (16.4ft), 10m (32.8ft)
Nominal Voltage	250 VAC/300 VDC	300 VAC/VDC
Max Current	4A	4A
Protection Degree	IEC IP67 / IP68 / IP69K	IEC IP67 / IP68 / IP69K
Material Nut	316L stainless steel	316L stainless steel
Jacket Material	PVC	PVC
Housing Material	PVC	PVC
Contacts Material	Gold plated	Gold plated
Tightening Torque	0.6 to 1.5 Nm	
Conductors Cross Section (AWG)	22 AWG	22 AWG
Ø Outer Cable	4.9 mm	4.5 mm
Temperature Range	-25° to 100°C (-13° to 212°F)	-10° to 100°C (14° to 212°F)
Environmental	Halogen free, Silicone free	Halogen free, Silicone free
Bending Radius	min. 10 x cable diameter	
Agency Approvals	UL E191684	UL E177636

Wiring - M12 DC

EVT221, EVT222, EVT223, EVT224



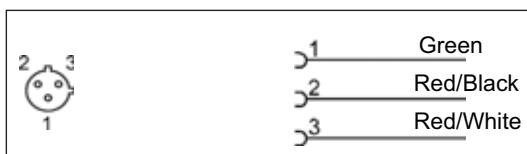
EVT225, EVT226, EVT227, EVT228, EVT229, EVT230, EVT231, EVT232, EVT233, EVT234



UL Reference	
Part Number	UL Catalog Number
EVT221	ADOGH040VAS0005E04
EVT222	ADOAH040VAS0005E04
EVT223	ADOGH040VAS0010E04
EVT224	ADOAH040VAS0010E04
EVT225	VDOGH040VAS00.3E04STGH040VAS
EVT226	VDOAH040VAS00.3E04STGH040VAS
EVT227	VDOGH040VAS00.6E04STGH040VAS
EVT228	VDOAH040VAS00.6E04STGH040VAS
EVT229	VDOGH040VAS0001E04STGH040VAS
EVT230	VDOAH040VAS0001E04STGH040VAS
EVT231	VDOGH040VAS0002E04STGH040VAS
EVT232	VDOAH040VAS0002E04STGH040VAS
EVT233	VDOGH040VAS0005E04STGH040VAS
EVT234	VDOAH040VAS0005E04STGH040VAS

Wiring - 1/2" Micro AC

E18446, E18447, E18448, E18449



Sensors Accessories: IP69K-rated Cables

Dimensions mm (in)

Figure 1

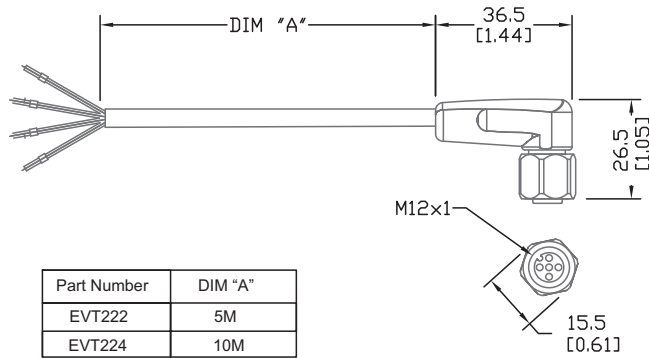


Figure 2

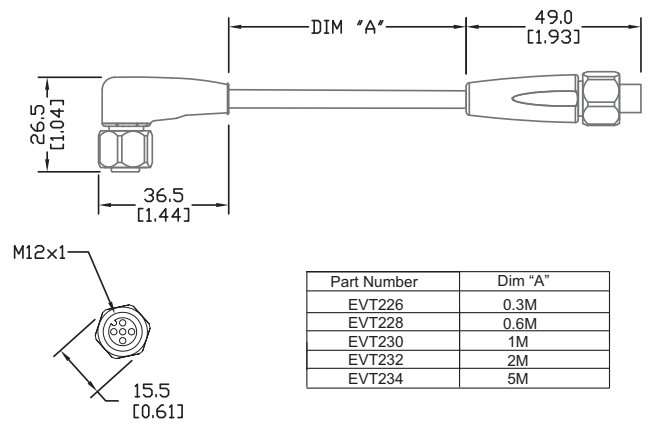


Figure 3

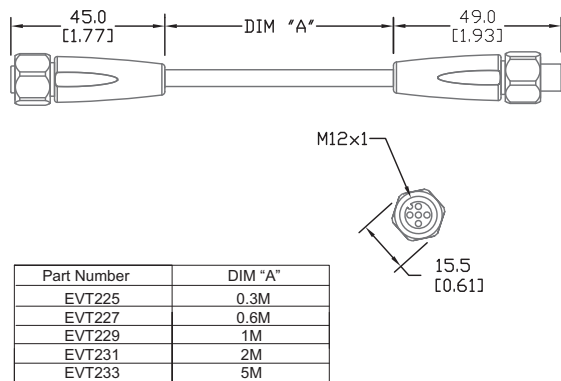


Figure 4

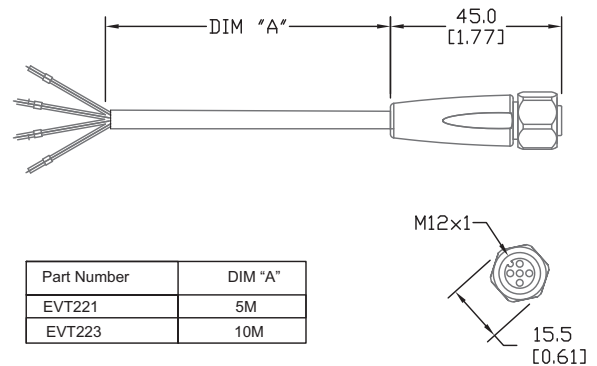


Figure 5

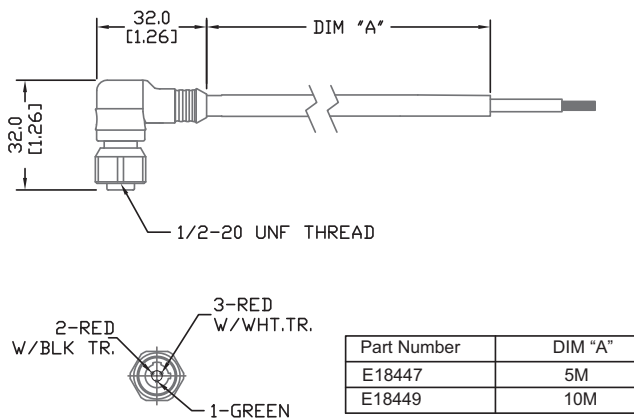
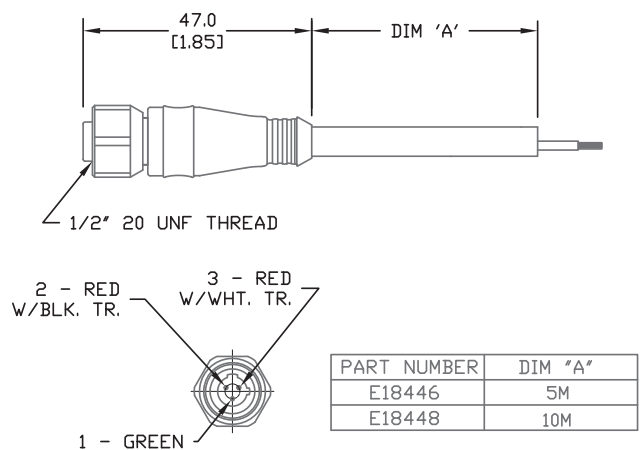


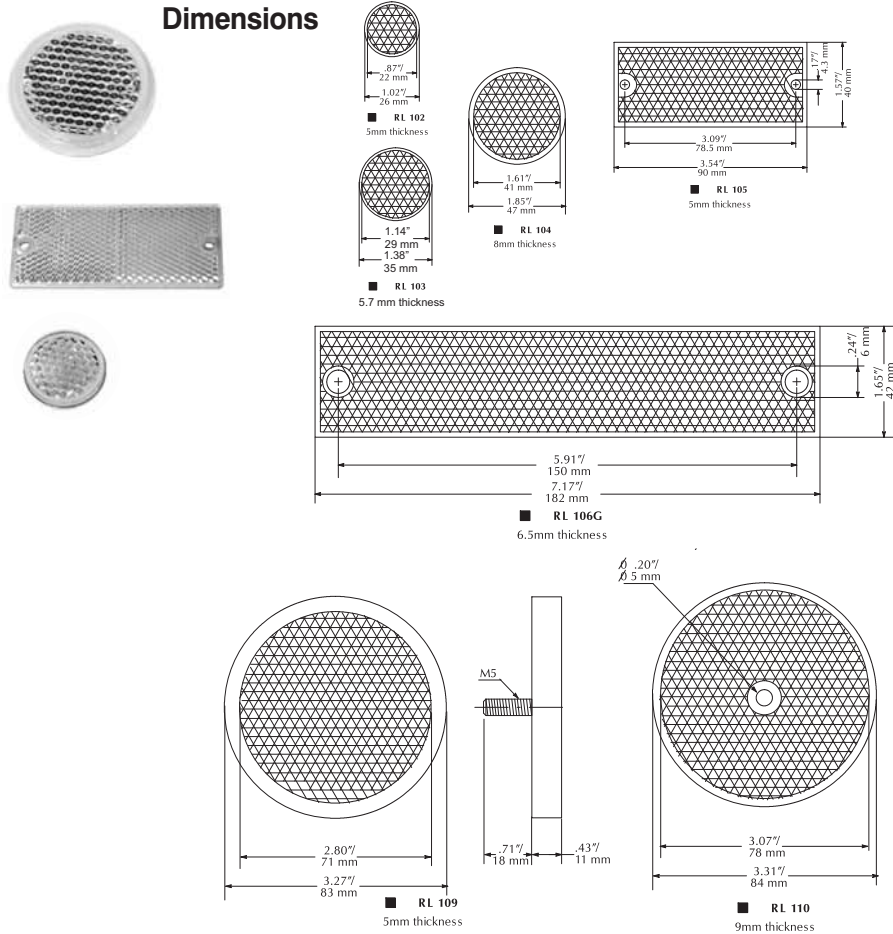
Figure 6



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 ±15°.

Specifications							
Model	RL102	RL103	RL104	RL105	RL106G	RL109	RL110³
Price (10 per pack)	<--->	<--->	<--->	<--->	<--->	<--->	<--->
% Sensing Range Using SSP¹	50%	40%	50%	50%	50%	50%	100%
% Sensing Range Using QXP¹	--	35%	60%	50%	45%	30%	100%
Dimensions	Ø26mm	Ø36mm	Ø47mm	90x40mm	182x42mm	Ø83mm	Ø84mm
Degree of Protection²	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.

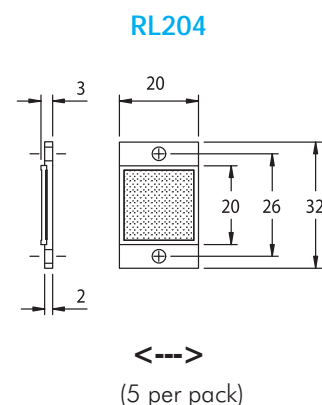
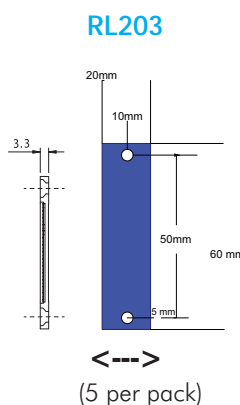
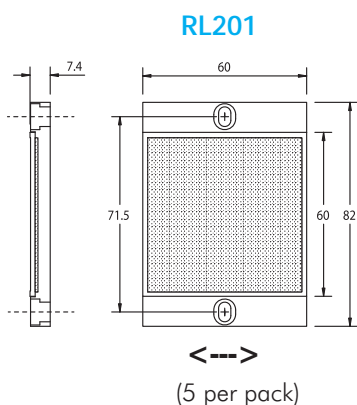
Sensing Distance (when used with SSE / SSR Model Photoelectric switches)						
Model	ST0S1	ST0S2	ST0S3	ST0S4	ST0S6	ST0S8
Pieces Per Pack	1	1	1	1	1	1
Price	<--->	<--->	Discontinued	<--->	<--->	<--->
Ø x shutter (mm)	1	2	3	4	6	8
Distance (m)	N/A	N/A	1	1.5	3.5	6.5
object (mm)	N/A	N/A	1.5	2	3	4

Accessories: Reflectors, Adapters & Mounting Brackets

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

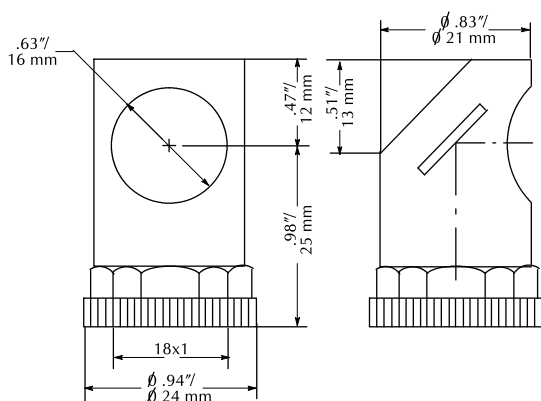
- Suitable for use with polarized light Laser photoelectric sensors
- Sizes for most applications
- Miniature types for close mounting in multiple sensor installations
- 5 reflectors per package

Specifications			
Model	RL201	RL203	RL204
Sensing Range Using FALN¹	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 Protection²	IEC IP67		
Materials	Acrylic/polycarbonate		
<p>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.</p>			



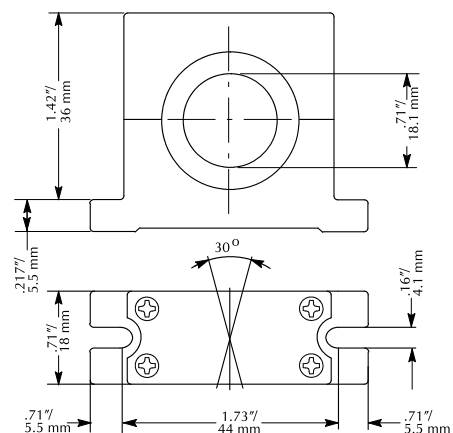
ST03 right-angle M18 (18 mm) beam adapter

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%.



ST02 plastic swivel bracket M18 (18 mm)

Plastic mounting bracket for use with M18 photoelectric switches. Has a ball-joint and set screws to adjust sensor orientation. Allows orientation in all directions for retroreflective and through-beam sensors. (Will not work with C18 series).



Accessories: Mounting Brackets

ST12A axial bracket

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

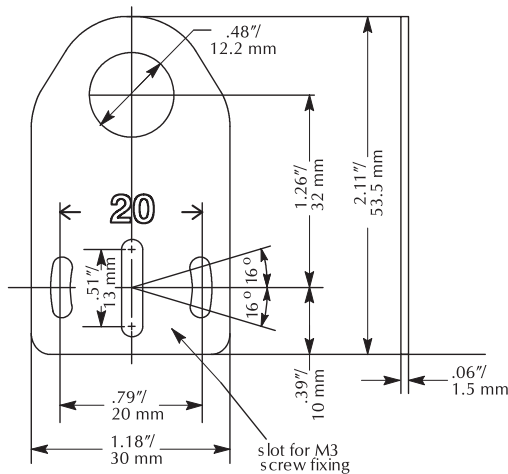


ST12C right-angle bracket

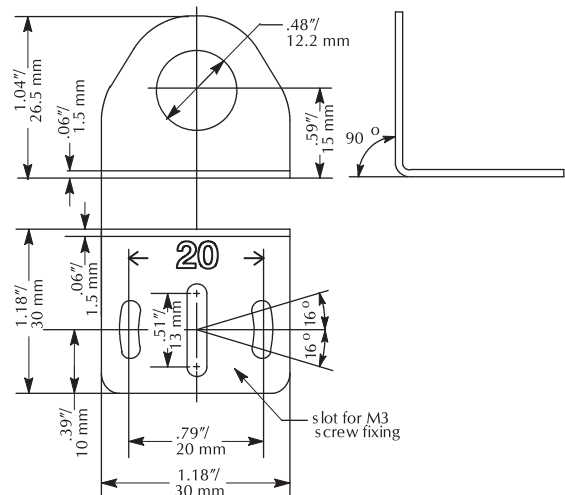
Angular mounting bracket for use with M12 (12 mm) sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors.



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.

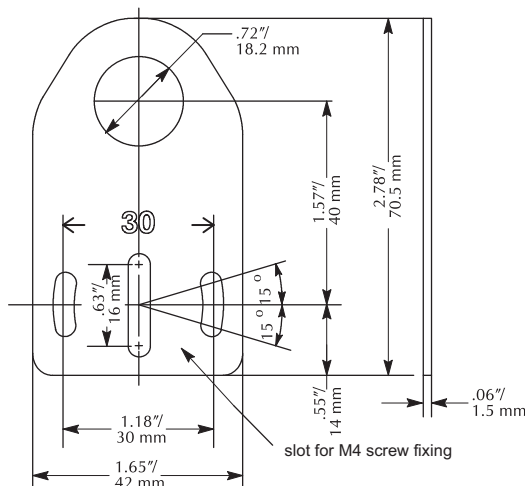


ST18C right-angle bracket

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

