## **PKW Series Inductive Proximity Sensors**



### M18 (18 mm) stainless steel - DC

- Twelve models available
- · Low cost/high performance
- LED status indicators are visible at a wide angle.
- Triple distance models (shown) sense all metals at virtually the same distance, have one-piece stainless design, and are fully submersible up to 290 psi.
- · Axial cable or M12 quick-disconnect models
- Purchase cable separately (for quick-disconnect models).
- · Lifetime warranty

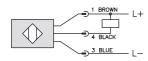


PKW Series M18 DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions
Standard Distar	псе							
PKW-0N-1H	<>	5 mm (0.197 in)	Shielded	N.O./N.C	NPN	M12 (12 mm) connector	Diagram 3	Figure 1
PKW-0P-1H	<>	3 111111 (0.197 111)	Silielueu	IN.U./IN.U	PNP	M12 (12 mm) connector	Diagram 4	Figure 1
PKW-AN-1H	<>	5 mm (0.197 in)	Shielded	N.O.	NPN	M12 (12 mm) connector	Diagram 1	Figure 4
PKW-AP-1H	<>	3 111111 (0.197 111)	Silielueu	IN.U.	PNP	M12 (12 mm) connector	Diagram 2	Figure 4
Extended Distail	nce							
PKW-0N-2H	<>	8 mm (0.315 in)	.315 in) Unshielded	N.O./N.C	NPN	M12 (12 mm) connector	Diagram 3	Figure 1
PKW-0P-2H	<>	0 111111 (0.313 111)	OHSHIEIUEU		PNP	M12 (12 mm) connector	Diagram 4	Figure 1
PKW-AN-2H	<>	12 mm (0.472 in)	Unshielded	N.O.	NPN	M12 (12 mm) connector	Diagram 1	Figure 4
PKW-AP-2H	<>	12 111111 (0.472 111)	OHSHIEIUEU	JIISHIGUGU N.U.		M12 (12 mm) connector	Diagram 2	Figure 4
Triple Distance								
PKW-AN-5A	<>				NPN	2 m (6.5') axial cable	Diagram 1	Figure 2
PKW-AP-5A	<>	10 mm (0.394 in)	Shielded	N.O.	PNP	2 m (6.5') axial cable	Diagram 2	Figure 2
PKW-AN-5H	<>	7 10 11111 (0.394 111)	Silielueu	IN.U.	NPN	M12 (12 mm) connector	Diagram 1	Figure 3
PKW-AP-5H	<>				PNP	M12 (12 mm) connector	Diagram 2	Figure 3

### Wiring diagrams

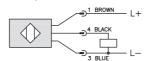
#### Diagram 1

NPN Output



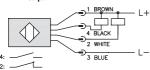
#### Diagram 2

**PNP Output** 



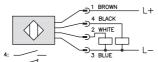
#### Diagram 3

NPN Output



#### Diagram 4

PNP Output



#### Connector

M12 connector



Note: Pin 2 is not present on some models.

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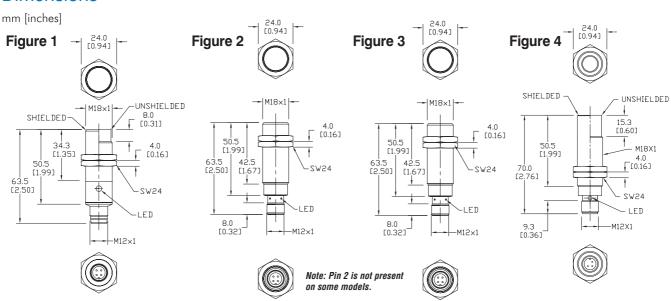
Product

Part #

# **PKW Series Inductive Proximity Sensors**

<b>Specifications</b>	Standard Distance Models	Extended Distance Models	Triple Distance Models	PKW-A*-1H	PKW-A*-2H	
Mounting Type	Shielded	Unshielded	Shielded	Shielded	Unshielded	
Nominal Sensing Distance	5 mm (0.197 in) <sup>1</sup>	8 mm (0.315 in) <sup>1</sup>	10 mm (0.394 in)	5 mm (0.197 in)	12 mm (0.472 in)	
Operating Distance		N/A		0 to 4 mm	0 to 9.7 mm (0.38in)	
Material Correction Factors		See Materi	al Influence tables later in t	his section.		
Output Type	NPN or PNP and N.O	./N.C. complementary	NPN or PNP, N.O. only	NPN or PN	IP, N.O. only	
Operating Voltage		10 to 30 VDC		10 to 36 VDC	10 to 30 VDC	
No-load Supply Current	15	mA	10 mA	20 mA	25 mA	
Operating (Load) Current	≤40	0 mA	≤200 mA	10	0 mA	
Off-state (Leakage) Current	≤1	0μΑ	≤100µA	<0.	1 mA	
Voltage Drop	≤0.8 V		≤2.0 V	<2	2.5 V	
Switching Frequency	1 k	(Hz	200 Hz	100 Hz	500 Hz	
Differential Travel (% of Nominal Distance)	2 to	10%	≤15%	≤	20%	
Repeat Accuracy	≤(	5%	_		_	
Ripple	≤1	0%	≤20%	_		
Time Delay Before Availability (tv)	100	ms	≤10 ms	negligible		
Reverse Polarity Protection		Not available		Yes		
Short-circuit Protection		Not available		Yes (non-latching)		
Operating Temperature		-25° to 70°C	(-13° to 158°F)		0° to 100°C (32° to 212°F)	
Protection Degree (DIN 40050)	IEC IF	267/68	IEC IP67 <sup>2</sup> (connector) IP68 <sup>2</sup> (cable)	IEC IP67, IP68	IEC IP65/67/68/69K	
Indication/Switch Status		Yı	ellow (N.O. output energize	d)	•	
Housing Material			Stainless steel			
Sensing Face Material	Polyphonylene	e Sulfide (PPS)	Stainless steel	Stainless steel	Stainless steel	
Shock Resistance / Vibration Resistance			See terminology section			
Tightening Torque	40 Nm (	(29 lb-ft)	50 Nm (37 lb-ft)	50 Nm	(37 lb-ft)	
Weight	70 g (2	70 g (2.47 oz)		56 g (	1.98 oz)	
Connection	M12 cc	onnector	2 m (6.5') axial cable or M12 connector	M12 connector. 2	lock nuts included	
Agency Approvals	N,	/A	UL file E328811, RoHS	cULus file E32	8811, CE, RoHS	
Notes: With 12 x 12mm FE360 target Fully submersib	nle to 290 psi.					

#### **Dimensions**



# 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

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	

Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M12 Quick-Disconnects	s					
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





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7000-19041-7050500

## Shielded M12 Cables with quick-disconnect plugs

- 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



7000-17121-2941000



7000-17141-2940500

Shielded M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions	
M12 Quick-Disconnects	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 femaleplug 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



M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
M12 Quick	-Disco	nnects					
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

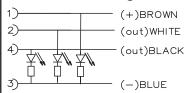
\*Note: LED for 10 to 36 VDC PNP devices only.

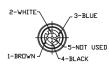
Do not use with NPN or analog ouput devices.

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

Do not use when emitter has check function.

#### **LED Models' Wiring**





			Cable Sp	ecifications				
Ç,	pecification		M8		M	12		
J.	Jeenicalion		INIO	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)		
Nomina	l Voltage	50 VAC/75 VDC	60 VAC/VDC	300 VAC	250 VAC/VDC	30 VAC/VDC; 125 VAC/VDC; 250 VAC/VDC		
Max Cui	rrent		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 Cur	rent Loading				N/A			
Protection	on Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67		
Materia	l Nut		Nickel pla	ited brass		Nickel plated Zinc		
Housing	Material			Polyure	thane (PUR)			
Contacts	s Material		Gold plated Coppe	er-Tin Alloy (CuSn	Gold plated brass			
Tighteni	ing Torque	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 Nm		
Conduct Section	ors Cross (AWG)	0.25 mm <sup>2</sup> (24 AWG)	0.25 mm <sup>2</sup> (24 AWG)	0.25 mm <sup>2</sup> (24 AWG)	0.34 mm <sup>2</sup> (22 AWG)	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG) 5 x 0.34 mm <sup>2</sup> (5 x 22 AWG) 8 x 0.25 mm <sup>2</sup> (8 x 24 AWG) 12 x 0.14 mm <sup>2</sup> (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		
Tempera	ature 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)		
Environi	mental	N/A	Halogen/Silicone free	N/A	Halogen/Silicone free	N/A		
Function LED	n Display Power			N/A				
Switchin	ng Status LED		N/A					
oller )	Bending Radius			min. 10 x	cable diameter			
in (R. Tray, billity	Bending Cycles			N/A				
Orag Chain (Roller Cable Tray) Suitability	Travel Speed				N/A			
Drag C	Torsional Strain				N/A			
Anency	Approvals		Ro	HS		RoHS (UL E325311 8/12 pole)		



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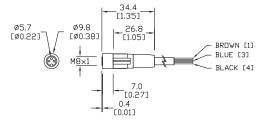
		Cable Specifications				
	Specification	M12 7000 Series (shielded)	M12 with LED			
Length		5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)			
Nominal	Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC			
Max Curr	ent	2A / 4A	4A			
LED Curre	ent Loading	N/A	10 V input Brown wire LED: 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	n Degree	IP67	IP67 / IP68 / IP69K			
Material	Nut	Nickel plated Zinc	Nickel plated Brass			
Jacket Ma	aterial	Polyurethane (PUR)				
Housing I	Material	Polyurethane (PUR)				
Contacts	Material	Gold plated Brass				
Tightenin	g Torque	0.6 Nm	0.6 to 1.5 Nm			
Conducto (AWG)	rs Cross Section	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG) 5 x 0.34 mm <sup>2</sup> (5 x 22 AWG) 8 x 0.25 mm <sup>2</sup> (8 x 24 AWG)	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG)			
Ø Outer C	Cable	4/5 pole: 5.9 mm 8 pole: 7mm	5mm			
Temperat	ure 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	g Status LED	N/A	2 x Yellow			
le le 'ity	Bending Radius	min. 10 x cable di	ameter			
Chain · Cable iitabili	Bending Cycles	N/A	>5 million			
Drag Chain Roller Cable ty) Suitability	Travel Speed	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>			
Tra	Torsional Strain	N/A	±180°/m			
Agency A	pprovals	RoHS	UL File E191684, RoHS			

	UL Reference			
Part Number	Mini-Series Female Cord Connectors Series M12, UL Catalog Number			
EVC178	AD0AH043MSS0002H04			
EVC179	AD0AH043MSS0005H04			
EVC180	AD0AH043MSS0010H04			
Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number				

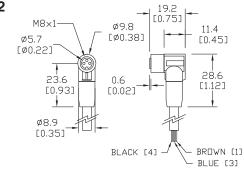
#### **Dimensions**

mm [inches]

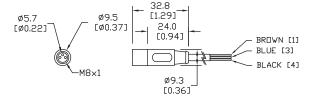
#### Figure 1



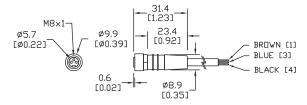
#### Figure 2



#### Figure 3



#### Figure 4



#### Figure 5

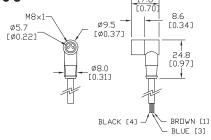
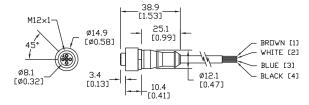


Figure 6



#### Figure 7

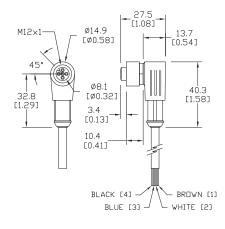
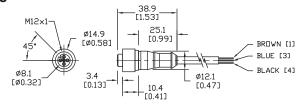


Figure 8



tomation Direct

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#### **Dimensions**

mm [inches]

Figure 9

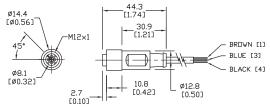


Figure 11

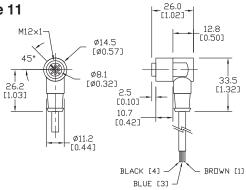


Figure 13

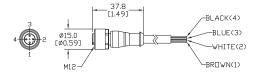


Figure 15

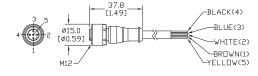


Figure 10

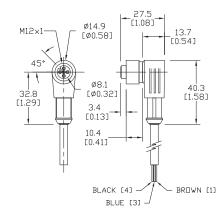


Figure 12

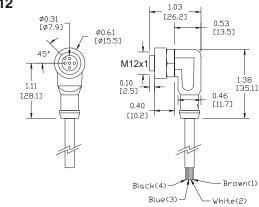


Figure 14

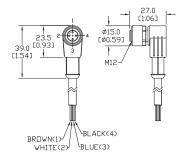
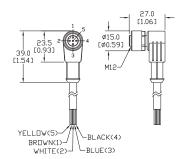


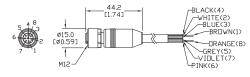
Figure 16



#### **Dimensions**

mm [inches]

#### Figure 17



#### Figure 18

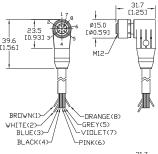


Figure 19

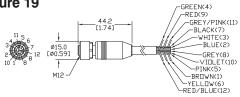


Figure 20

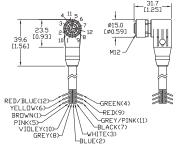


Figure 21

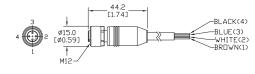


Figure 22

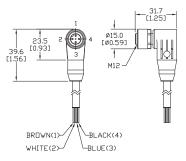


Figure 23

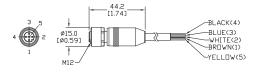


Figure 24

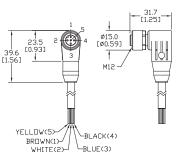


Figure 25

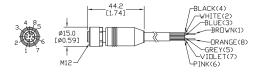
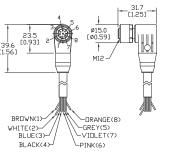


Figure 26



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Company Information

Systems Overview

Programmable Controllers

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C-more &

other HMI Drives

Soft Starters

Motors &

Gearbox

Steppers/ Servos

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Part # Index

# **Accessories: Adapter, Mounting Brackets**

#### ST12A axial bracket

Part Number

ST12A

ST12A7W

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. Hexagonal nuts not included.

Price

<--->



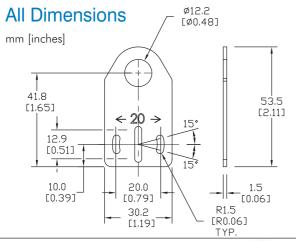
Description				
isors.	0 0			

### 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. Hexagonal nuts not included.



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



**Brackets** 

Zinc plated iron axial bracket for 12 mm sensors, 1/pk

316L stainless steel axial bracket for 12 mm sensors, 1/pk

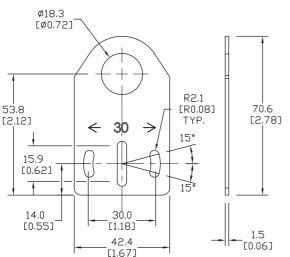
	Ø12.1 / [Ø0.48]	
26.6 [1.05] 15.0 (0.59]	90°	
1	1.5	
30.0 <u> </u> [1.18] <sub>12.8</sub>   [0.51]	← 20 →	
[0,31]	15°	
10.0 [0.39]	20.0 R1.5 [R0.06] TYP.	
	- 30.1 [1.18]	_
	the contract of the contract o	

### ST18A axial bracket

Mounting bracket for M18 (18 mm) sensors. Has two mounting holes (use 4 mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.



<b>Brackets</b>		
Part Number	Price	Description
ST18A	<>	Zinc plated iron axial bracket for 18 mm sensors, 1/pk
ST18A7W	<>	316L stainless steel axial bracket for 18 mm sensors, 1/pk

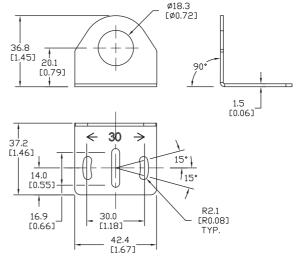


## ST18C right-angle bracket

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. Hexagonal nuts not included.



<b>Brackets</b>				
Part Number	Price	Description		
ST18C	<>	Zinc plated iron right angle bracket for 18 mm sensors, 1/pk		
ST18C7W	<>	316L stainless steel right angle bracket for 18 mm sensors, 1/pk		



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Steppers/

Motor Controls

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Photo Sensors

Limit Switches

Encoders

Sensors

Pressure
Sensors

Temperature

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Process

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# **Accessories: Mounting Brackets**

#### ST30A axial bracket

Mounting M30 (30 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.



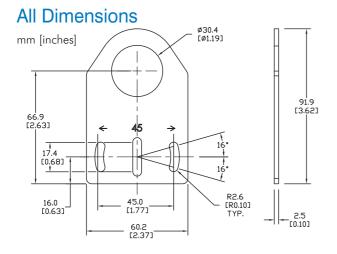
<b>Brackets</b>		
Part Number	Price	Description
ST30A	<>	Zinc plated iron axial bracket for 30 mm sensors, 1/pk

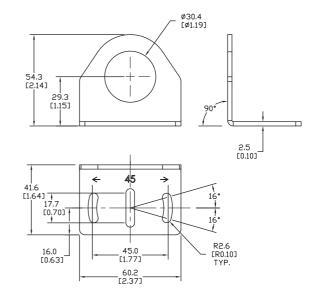
### ST30C right-angle bracket

Angular mounting bracket for M30 (30 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.



<b>Brackets</b>		
Part Number	Price	Description
ST30C	<>	Zinc plated iron right angle bracket for 30 mm sensors, 1/pk





# We sell good proximity sensors at great prices - and we back them up!

# **AutomationDirect Lifetime Warranty**

### Registration required

For inductive proximity sensors sold to the Original User for the lifetime of the original application.

The following terms apply to the LIFETIME WARRANTY in addition to the General Terms:

- 1. This warranty is available only to AUTOMATION DIRECT's authorized Value Added Resellers and to the Original User. In the event the ownership of the product is transferred to a person, firm, or corporation other than the Original User, this WAR-RANTY shall terminate.
- 2. This WARRANTY is applicable only to the original installation of the product. In the event the machinery, equipment, or production line to which the product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate
- 3. This WARRANTY shall be valid only if the product was purchased by the Original User from AUTOMATION DIRECT, or from an  $authorized \ \ Automation Direct \ Value \ Added$ Reseller, or was an integral part of a piece of machinery and equipment obtained by the Original User from an original equipment manufacturer, where the part was purchased by the original equipment manufacturer directly from AUTOMATION DIRECT or from an authorized AUTOMATION DIRECT Value Added Reseller.

#### Purchaser's remedies

remedy shall apply to WARRANTIES. If an AutomationDirect Value Added Reseller desires to make a WARRANTY claim, the Value Added Reseller shall, if requested AUTOMATION DIRECT, ship the product to AUTOMATION DIRECT's facility in Cumming, GA postage or freight prepaid. If the Original User desires to make a WARRANTY Claim, they shall notify the authorized Value Added Reseller from whom it was purchased or, if purchased directly from AUTOMATIONDIRECT, shall AUTOMATION DIRECT and, requested by AUTOMATION DIRECT, ship the Product to AUTOMATION DIRECT's facility in Cumming, GA postage or freight prepaid. AUTOMATION DIRECT shall, at its option, take any of the following two courses of action for any products AUTOMATION DIRECT determines are defective in materials or workmanship.

- 1. Repair or replace the product and ship the product to the Original User or to the authorized Automation Direct Value Added Reseller, postage or freight prepaid; or
- 2.-Repay to the Original User that price paid by the Original User; provided that if the claim is made under the lifetime warranty, and such product is not then being supplied by AUTOMATION DIRECT, then the amount to be repaid by AUTOMATION DIRECT to the Original User shall be reduced according to the following schedule:

Number of Years Since Date of Purchase by Original User	Percent of Original Purchase Price To Be Paid by AutomationDirect
10	50 percent
15	25 percent
20	10 percent
More than 20	5 percent

REMEDIES OF PURCHASER'S AND VALUE ADDED RESELLERS SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT. REPAIR OR REPAY-MENT AS PROVIDED ABOVE AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL USER'S SITE. AUTOMATIONDIRECT.COM SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT. INCLUDING WITHOUT LIMITA-TION. ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTER-RUPTION, EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES.

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http://www.automationdirect.com/static/specs/proxwarranty.pdf

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Sensors Pressure

Sensors

Temperature

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Process

Relays/

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Appendix Product

Part #