AT Series Analog Inductive Proximity Sensors



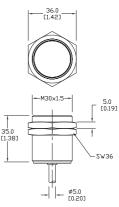
M30 (30 mm) metal - analog output

- Voltage or current analog output
- 4 models available
- Metal housing
- Axial cable or M12
- quick-disconnect models
- IP67 rated
- Purchase cable separately (for quick-disconnect model)
- Lifetime warranty

AT Series M30 Analog Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output	Connection	Dimensions		
AT9-05-1A	<>	0 to 20mm	Shielded	0 - 5VDC or 1-5mA	2m (6.5') axial cable	Figure 1		
AT9-05-1H	<>	(0-0.79in)		Shielded	1-5mA	M12 (12mm) connector	Figure 2	
AT9-10-1A	<>	0 to 20mm		0-10VDC or 4-20mA	2m (6.5') axial cable	Figure 1		
AT9-10-1H	<>	(0-0.79in)		4-20mA	M12 (12mm) connector	Figure 2		

Specifications					
Mounting Type	AT9-05-1*	AT9-10-1*			
	Shielded				
Nominal Sensing Distance	0 to 20mm (0-0.79in)	0 to 20mm (0-0.79in)			
Operating Distance	N	/A			
Material Correction Factors	See Material Influence Ta	ble 2 later in this section.			
Output Type	0 to 5VDC or 1 to 5mA	0 to 10VDC or 4 to20mA			
Current Output Max. Load / Power Supply	1k Ω / 10VDC; 5k Ω / 30VDC	0.5kQ / 15VDC; 1kQ / 30VDC			
Voltage Output Min. Load	500Ω	1kΩ			
Operating Voltage	10 to 30VDC	15 to 30VDC			
No-load Supply Current	≤10mA	≤12mA			
Operating (Load) Current					
Off-state (Leakage) Current	N	/A			
Voltage Drop	≤2	.0 V			
Switching Frequency	N	/A			
Differential Travel (% of Nominal Distance)	N/A				
Repeat Accuracy	±0.0	5mm			
Ripple	≤ 2	20%			
Response Time	5ms				
Time Delay Before Availability (tv)	≤5	Oms			
Reverse Polarity Protection	Yes				
Short-Circuit Protection		after overload is removed)			
Operating Temperature	-25° to +70° C (-13° to 158° F)				
Protection Degree (DIN 40050)	IEC	IP67			
Indication/Switch Status	Ν	/A			
Housing Material	Chrome-p	lated brass			
Sensing Face Material	Polybutylene Terephthalate (PBT)				
Shock/Vibration	See Terminology Section				
Tightening Torque		(44 lb-ft)			
Weight (cable/M8 connector)		/ 135g (4.76 oz.)			
Connection	2m (6.5') axial cable or	M12 (12mm) connector			
Agency Approvals	UL file I	328811			
Wiring diagram	Conne	ctor			

NEED

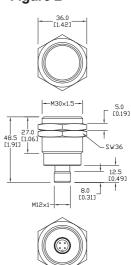


Dimensions

mm [inches] Figure 1







Sensors with M12 connectors must

M12 connector

use 2M or 7M cables (4-wire).



Company Information

Software C-more &

other HMI Drives

Soft

Starters Motors &

Gearbox Steppers/ Servos

Motor Controls

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Terminal

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Sensors

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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
		Lenyin	FUIES	CONNECTOR	JAUNEI	DIIIEIISIUIIS
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



7000-19041-7050500



www.automationdirect.com/dinnectors

Part # Index





7000-17141-2940500

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

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 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 only



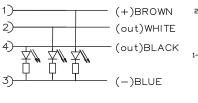
M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)							
Price	Length	Poles	Connector	LED	Jacket	Dimensions	
M12 Quick-Disconnects							
<>	2m (6.5 ft)	4	Right-angle female	Yes	PUR	Figure 12	
<>	5m (16.4 ft)	4	Right-angle female	Yes	PUR	Figure 12	
<>	10m (32.8 ft)	4	Right-angle female	Yes	PUR	Figure 12	
	iscor :> :>	Length isconnects > 2m (6.5 ft) > 5m (16.4 ft)	Crice Length Poles isconnects > 2m (6.5 ft) 4 > 5m (16.4 ft) 4	Arrice Length Poles Connector isconnects > 2m (6.5 ft) 4 Right-angle female > 5m (16.4 ft) 4 Right-angle female	Arrice Length Poles Connector LED isconnects > 2m (6.5 ft) 4 Right-angle female Yes > 5m (16.4 ft) 4 Right-angle female Yes	Price Length Poles Connector LED Jacket isconnects > 2m (6.5 ft) 4 Right-angle female Yes PUR > 5m (16.4 ft) 4 Right-angle female Yes PUR	

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	;		
C.	pecification		M8		M	12	
J	DECITICATION		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					
Protecti	on Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67	
Materia	l Nut	Nickel p		ated brass		Nickel plated Zinc	
Housing	Material			Polyure	thane (PUR)		
Contacts Material			Gold plated Coppe	er-Tin Alloy (CuSn)		Gold plated brass	
Tighteni	ing Torque	0.5 Nm	\leq 0.4 Nm	0.5 Nm	\leq 0.4 Nm	0.6 Nm	
Conduct Section	tors Cross (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	
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	
Functior LED	n Display Power			1	N/A		
Switchir	ng Status LED	N/A					
oller	Bending Radius	min. 10 x cable diameter					
n (Ro Tray) ility	Bending Cycles				N/A		
Drag Chain (Roller Cable Tray) Suitability	Travel Speed				N/A		
Drag	Torsional Strain				N/A		
-	Approvals		Ro	HS		RoHS (UL E325311 8/12 pole)	

Automation Direct Company Information Systems Overview Programmable Controllers Field I/O Software C-more & other HMI Drives Soft Starters Motors & Gearbox Steppers/ Servos Motor Controls Proximity Sensors Photo Sensors Limit Switches Encoders Current Sensors Pressure Sensors Temperature Sensors Pushbuttons/ Lights Process Relays/ Timers Comm. Terminal Blocks & Wiring Power

Circuit Protection

Enclosures Tools Pneumatics Safety Appendix

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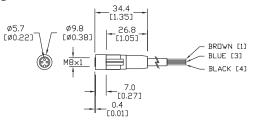
		Cable Specifications				
8	Specification	M12 7000 Series (shielded)	M12 with LED			
Length		5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)			
Nominal	Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC			
Max Curr	ent	2A / 4A	4A			
LED Current Loading		N/A	10 V input Brown wire LED: 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			
Protectio	n Degree	IP67	IP67 / IP68 / IP69K			
Material	Nut	Nickel plated Zinc	Nickel plated Brass			
Jacket Material		Polyurethane (PUR)				
Housing I	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 O	Cable	4/5 pole: 5.9 mm 8 pole: 7mm	5mm			
Temperat	ture 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			
e lity	Bending Radius	min. 10 x cable di	ameter			
Chain Cable itabili	Bending Cycles	N/A	>5 million			
Drag Chain Roller Cable Ny) 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 ²			
Tra	Torsional Strain	N/A	±180°/m			
Agency A	pprovals	RoHS	UL File E191684, RoHS			

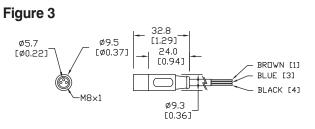
	UL Reference					
Part Number Mini-Series Female Cord Connectors Series M12, UL Catalog Number						
EVC178	ADOAH043MSS0002H04					
EVC179	ADOAH043MSS0005H04					
EVC180 ADOAH043MSS0010H04						
Note: Shown in L	Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number					

Dimensions

mm [inches]

Figure 1





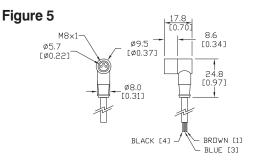
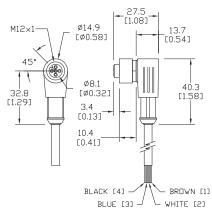


Figure 7



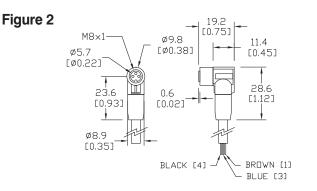


Figure 4

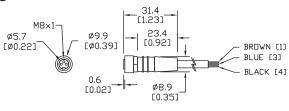


Figure 6

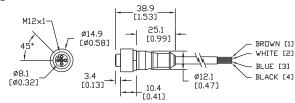
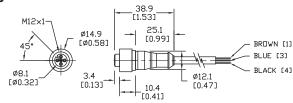


Figure 8



Programmable Controllers Field I/O Software C-more & other HMI Drives Soft Starters Motors & Gearbox Steppers/ Servos Motor Controls Proximity Sensors Photo Sensors Limit Switches Encoders Current Sensors Pressure Sensors Temperature Sensors Pushbuttons Lights Process Relays/ Timers Comm. Blocks &

Automat

Company Information

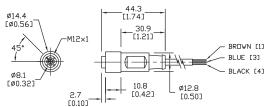
Systems Overview

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Dimensions

mm [inches]

Figure 9



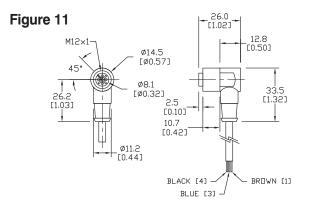


Figure 13

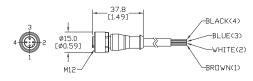
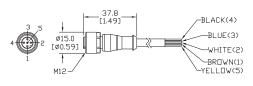


Figure 15



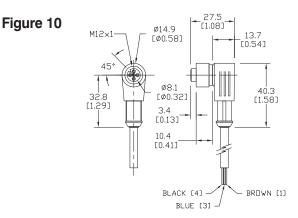


Figure 12

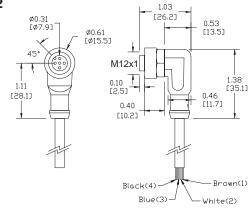


Figure 14

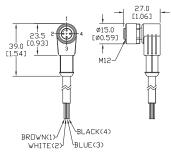
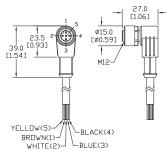


Figure 16



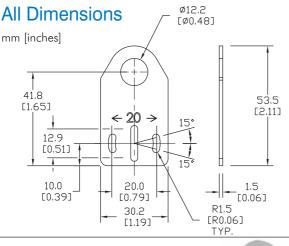
Accessories: Adapter, Mounting Brackets

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. Hexagonal nuts not included.



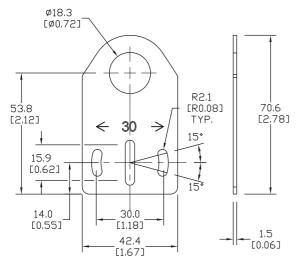
Brackets					
Part Number	Price	Description			
ST12A	<>	Zinc plated iron axial bracket for 12 mm sensors, 1/pk			
ST12A7W	<>	316L stainless steel axial bracket for 12 mm sensors, 1/pk			



ST18A axial bracket

Mounting bracket for M18 (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

Brackets				
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		

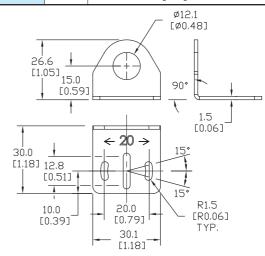


ST12C right-angle bracket

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.



Brackets				
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		

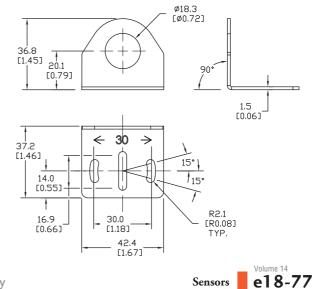


ST18C right-angle bracket

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.



Brackets			
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	



Sensors



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Accessories: Mounting Brackets

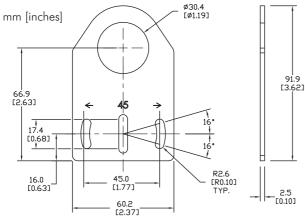
ST30A axial bracket

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.



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

All Dimensions

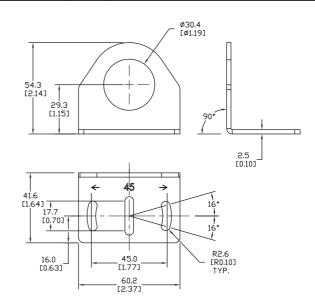


ST30C right-angle bracket

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.



Brackets			
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 AUTOMATIONDIRECT, or from an authorized AUTOMATIONDIRECT 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 AUTOMATIONDIRECT or from an authorized AUTOMATIONDIRECT Value Added Reseller.

Purchaser's remedies

remedy shall apply to This all WARRANTIES. If an AUTOMATIONDIRECT Value Added Reseller desires to make a WARRANTY claim, the Value Added Reseller shall, if requested by AUTOMATION DIRECT, ship the product to AUTOMATIONDIRECT'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 notify AUTOMATION DIRECT and, if 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 which 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 AUTOMATIONDIRECT, then the amount to be repaid by AUTOMATIONDIRECT 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.

Inductive proximity sensors warranty form may be obtained online at: http://www.automationdirect.com/static/specs/proxwarranty.pdf



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