AM Series Analog Inductive Proximity Sensors

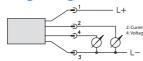
M12 (12 mm) metal – analog output

- · 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

AM Series M12 Analog Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output	Connection	Dimensions		
AM9-05-1A	<>	0 to 6mm (0-0.24in)	Shielded -	0 - 5VDC or 1-5mA	2m (6.5') axial cable	Figure 1		
AM9-05-1H	<>	(0-0.24in)		1-5mA	M12 (12mm) connector	Figure 2		
AM9-10-1A	<>	0 to 6mm (0-0.24in)		0-10VDC or 4-20mA	2m (6.5') axial cable	Figure 1		
AM9-10-1H	<>	(0-0.24in)		4-20mA	M12 (12mm) connector	Figure 2		

	,	,		
S	pecifications			
Mounting Type	AM9-05-1*	AM9-10-1*		
5 71	Shielded			
Nominal Sensing Distance	0 to 6mm (0-0.24in)	0 to 6mm (0-0.24in)		
Operating Distance	N/			
Material Correction Factors	See Material Influence Tal			
Output Type	0-5VDC or 1-5mA	0-10VDC or 4-20mA		
Current Output Max. Load / Power Supply	1kΩ / 10VDC; 5kΩ / 30VDC	0.5kΩ / 15VDC; 1kΩ / 30VDC		
Voltage Output Min. Load	500Ω	1kΩ		
Operating Voltage	10 -30VDC	15 -30VDC		
No-load Supply Current	≤10mA	≤12mA		
Operating (Load) Current	1kΩ	0.5k Ω		
Off-state (Leakage) Current	N/	'A		
Voltage Drop	≤2.0 V			
Switching Frequency	N/A			
Differential Travel (# of Nominal Distance)	N/A			
Repeat Accuracy	±0.01mm			
Ripple	≤20%			
Response Time	1n	ns .		
Time Delay Before Availability (tv)	≤50)ms		
Reverse Polarity Protection	Ye	Yes		
Short-Circuit Protection	Yes (switch auto-resets at	fter overload is removed)		
Operating Temperature	-25° to +70° C (-13° to 158° F)		
Protection Degree (DIN 40050)	IEC I	P67		
Indication/Switch Status	N/	'A		
Housing Material	Chrome-pl	ated brass		
Sensing Face Material	Polybutylene Terephthalate (PBT)			
Shock / Vibration	See Terminology Section			
Tightening Torque	10 Nm (7.37 lb-ft)			
Weight (cable/M8 connector)	95g (3.35 oz.) /	33g (1.16 oz.)		
Connection	2m (6.5') axial cable or	M12 (12mm) connector		
Agency Approvals	UL file E	328811		

Wiring diagram



Connector

M12 connector



Sensors with M12 connectors must use 2M or 7M cables (4-wire).



Dimensions

mm [inches]

Figure 1

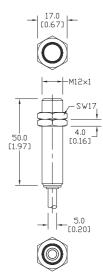
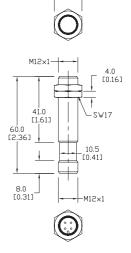


Figure 2



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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			
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			





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



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



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







7000-19041-7050500

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7000-17121-2941000



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			ct Cables with ro DC-Single K		ndicato	or		
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions		
M12 Quick	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		

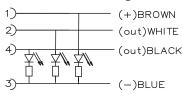
*Note: LED for 10 to 36 VDC PNP devices only.

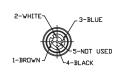
Do not use with NPN or analog ouput devices.

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.	necification		M8		M	12		
اه	Decinication	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 pla	ited brass		Nickel plated Zinc		
Housing	Material							
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	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		
LED	n Display Power				N/A			
Switchii	ng Status LED	N/A						
oller)	Bending Radius			min. 10 x	cable diameter			
n (R Tray	Bending Cycles				N/A			
g Chain (Ro Cable Tray) Suitability	Travel Speed				N/A			
Orag Chain (Roller Cable Tray) Suitabillity	Torsional Strain				N/A			
	Approvals		Ro	HS		RoHS (UL E325311 8/12 pole)		



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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			
Protection	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			
Conducto (AWG)	rs Cross Section	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 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	Status LED	N/A	2 x Yellow			
r le lity	Bending Radius	min. 10 x cable dia	ameter			
Chain Cabli itabil	Bending Cycles	N/A	>5 million			
Orag Chain Roller Cable y) 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			
) Ira	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

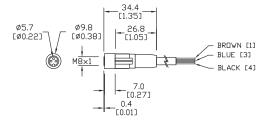


Figure 2

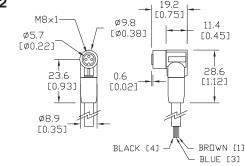


Figure 3

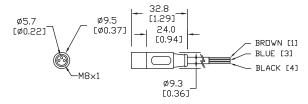


Figure 4

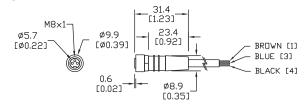


Figure 5

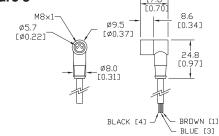


Figure 6

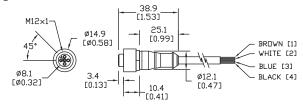


Figure 7

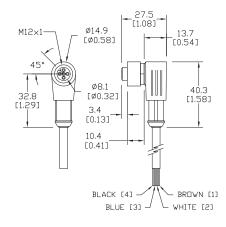
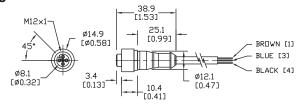


Figure 8





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Figure 9

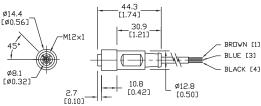


Figure 11

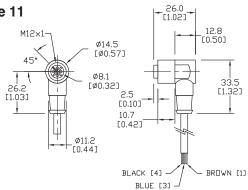


Figure 13

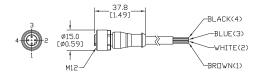


Figure 15

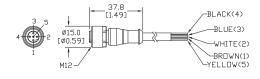


Figure 10

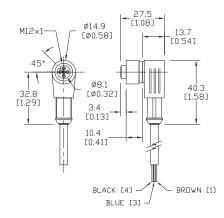


Figure 12

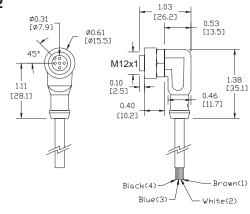


Figure 14

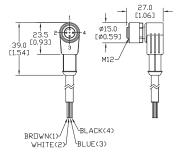
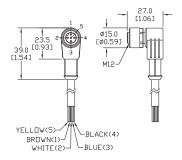


Figure 16



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.



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.

ST12C right-angle bracket



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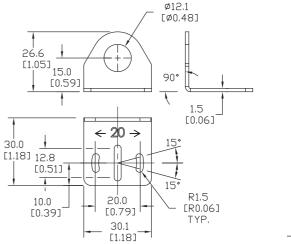
Part #

Sensors

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		

UTILATIV		3 TOE Starriess Stoci axiai bracke	12 mm 3013013, 1/pk			
All Dimensions / Ø12.2 [Ø0.48]						
mm [inches]					
41.8 [1.65] 12./ [0.5] 10./ 10./	0	< 20 → 15° 15° 15° 15° 15° 15° 15° 15° 15° 15°	53.5 [2.11] 1.5 [0.06] R1.5 [R0.06] TYP.			

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

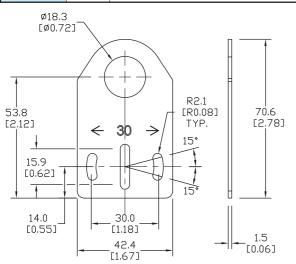


ST18A axial bracket

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

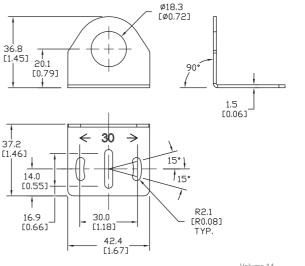


ST18C right-angle bracket

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	



e18-77

Sensors

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.



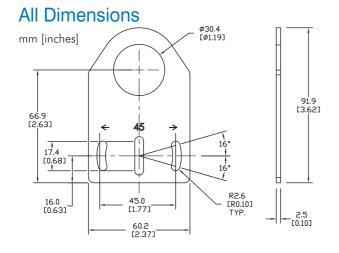
Brackets		
Part Number	Price	Description
ST30A	<>	Zinc plated iron axial bracket for 30 mm sensors, 1/pk

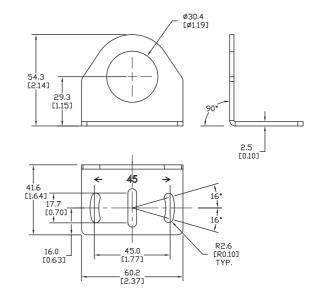
ST30C right-angle bracket

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 AUTOMATIONDIRECT'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 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 REPAYMENT 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 LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION, 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

Direct

Company Informatio

Systems Overview

Programmable

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/

Motor Controls

> Proximity Sensors

Photo Sensors

. .

Switches Encoders

Current Sensors

Pressure

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks &

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Safety

Appendix

Product Index

Part #