### **AT Series Analog Inductive Proximity Sensors**



### M30 (30 mm) metal - analog output

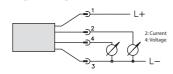
- Voltage or current analog output
- 4 models available
- Metal housing
- Axial cable or M12 quick-disconnect models
- IP67 rated
- Purchase cable separately (for quick-disconnect model)
- · Lifetime warranty



	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)			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			

<b>AT9-10-1H</b> <> (0-0.79III)		4-20IIIA	M12 (12	mm) connector	Figure 2
	Specif	fications			
Mounting Type		AT9-05-1*		AT9-10-1*	
mounting type			Shie	lded	
Nominal Sensing Distance		0 to 20mm (0-0.79	9in)	0 to 20mm	(0-0.79in)
Operating Distance			N	/A	
Material Correction Factors		See Material Ir	ıfluence Ta	ble 2 later in this s	ection.
Output Type		0 to 5VDC or 1 to 5	5mA	0 to 10VDC	or 4 to20mA
Current Output Max. Load / Power S	upply	$1k\Omega / 10VDC; 5k\Omega / 3$	30VDC	0.5k <b>Ω</b> / 15VDC	; 1k <b>Ω</b> / 30VDC
Voltage Output Min. Load		500Ω		1k	Ω
Operating Voltage		10 to 30VDC		15 to 3	80VDC
No-load Supply Current		≤10mA		≤12	2mA
Operating (Load) Current					
Off-state (Leakage) Current		N/A			
Voltage Drop		≤2.0 V			
Switching Frequency		N/A			
Differential Travel (% of Nominal Di	stance)	N/A			
Repeat Accuracy		±0.05mm			
Ripple		≤20%			
Response Time		5ms			
Time Delay Before Availability (tv)		≤50ms			
Reverse Polarity Protection		Yes			
Short-Circuit Protection		Yes (switch auto-resets after overload is removed)			moved)
Operating Temperature		-25° to +70° C (-13° to 158° F)			
Protection Degree (DIN 40050)				IP67	
Indication/Switch Status				/A	
Housing Material				lated brass	
Sensing Face Material		Polybutylene Terephthalate (PBT)  See Terminology Section			
Shock/Vibration		Se			
Tightening Torque		60 Nm (44 lb-ft)			
Weight (cable/M8 connector)  Connection			190g (6.71 oz.) / 135g (4.76 oz.)		
		2m (6.5') axial cable orM12 (12mm) connector  UL file E328811			ICUIUI
Agency Approvals			UL TIIE E	-328811	

### Wiring diagram



#### Connector

M12 connector

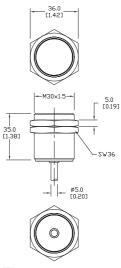


Sensors with M12 connectors must use 2M or 7M cables (4-wire).

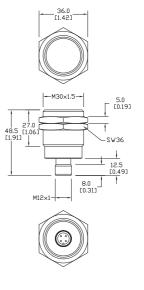
#### **Dimensions**

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 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)									
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		

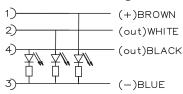
\*Note: LED for 10 to 36 VDC PNP devices only.

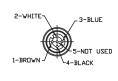
Do not use with NPN or analog ouput devices.

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	IVIO		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			Polyure				
Contacts	s Material	Gold plated Copper-Tin Alloy (CuSr			)	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 <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		
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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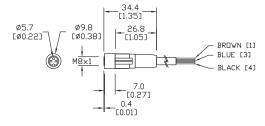
		Cable Specifications				
	Specification	M12 7000 Series (shielded)	M12 with LED			
Length		5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)			
Nominal	Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC			
Max Curr	ent	2A / 4A	4A			
LED Current Loading		N/A	10 V input Brown wire LED: 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 Ma	aterial	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 <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 O	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			
re lity	Bending Radius	min. 10 x cable dia	ameter			
hair Cab tabil	Bending Cycles	N/A	>5 million			
Drag Chain Roller Cable V) 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>			
72	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					

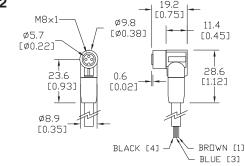
#### **Dimensions**

mm [inches]

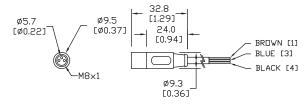
#### Figure 1



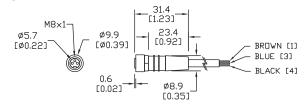
#### Figure 2



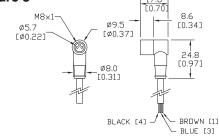
#### Figure 3



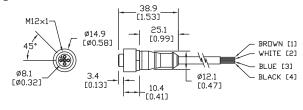
#### Figure 4



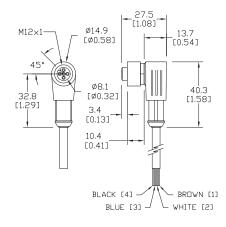
#### Figure 5



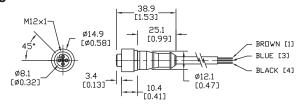
#### Figure 6



#### Figure 7



#### Figure 8





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Figure 9

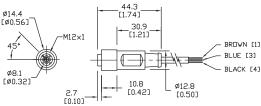


Figure 11

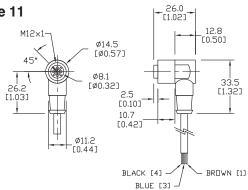


Figure 13

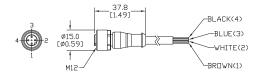


Figure 15

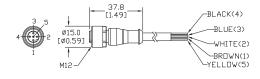


Figure 10

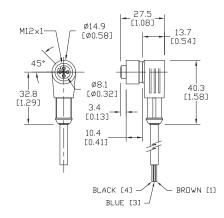


Figure 12

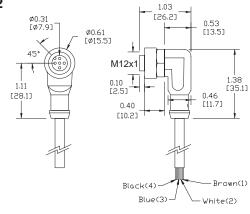


Figure 14

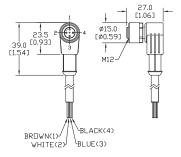
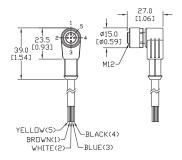


Figure 16



### **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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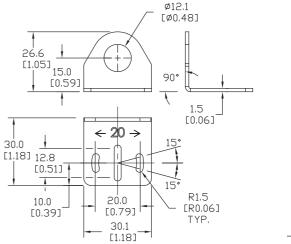
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Sensors

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	<b>&lt; 20</b> → 15° 15° 15° 15° 15° 15° 15° 15° 15° 15°	53.5 [2.11] 1.5 [0.06] R1.5 [R0.06] TYP.			

<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

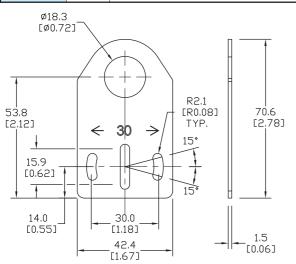


#### ST18A axial bracket

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

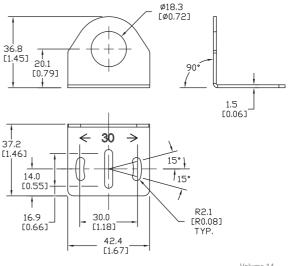


### ST18C right-angle bracket

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	



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.



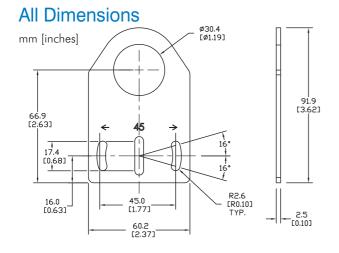
<b>Brackets</b>		
Part Number	Price	Description
ST30A	<>	Zinc plated iron axial bracket for 30 mm sensors, 1/pk

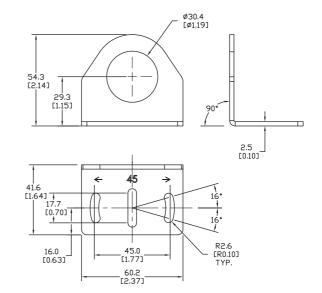
#### ST30C right-angle bracket

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  $authorized\ \ \text{AutomationDirect}\ \ \text{Value}\ \ \text{Added}$ 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 CONSFOUENTIAL 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:///static/specs/proxwarranty.pdf

Company Informatio

Systems Overview

Programmable

Field I/O

Software

other HMI

Drives

Soft

Motors & Gearbox

Steppers/ Servos

Controls

Photo Sensors

Switches Encoders

Sensors Pressure

Temperature

Pushbuttons/ Lights

Process

Relays/

Comm.

Terminal Blocks &

Power

Circuit

Enclosures

Tools

Pneumatics

Safety

Appendix

Product

Part #