# AE Series Analog Inductive Proximity Sensors



## M8 (8 mm) metal – analog output

- 4 models available
- Compact metal housing
- Axial cable or M8 quick-disconnect models
- IP67 rated
- Purchase cables separately (for quick-disconnect model)
- · Lifetime warranty

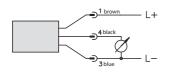


AE Series M8 Analog Inductive Prox Selection Chart							
Part Number	Price	Sensing Range	Housing	Output	Connection	Wiring	Dimensions
AE9-10-1A	<>	0 to 4mm (0-0.157in)	1mm Shielded	0-10VDC	2m (6.5') axial cable	Diagram 1	Figure 1
AE9-10-1F	<>	(0-0.157in)	Silicided	0-10000	M8 (8mm) connector	Diagram 1	Figure 2

#### **Specifications** AE9-10-1\* Mounting Type Shielded Nominal Distance 0 to 4mm (0-0.157in) **Operating Distance** N/A **Material Correction Factors** See Material Influence Table 2 later in this section. Output Type 0-10VDC **Operating Voltage** 15-30VDC No-load Supply Current ≤10mA Operating (Load) Current 1kΩ 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 0.6mc Time Delay Before Availability (tv) ≤50ms Reverse Polarity Protection Yes **Short-Circuit Protection** Yes (switch auto-resets after overload is removed) Operating Temperature -25° to +70° C (-13° to 158° F) Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status N/A Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate (PBT) Shock/Vibration See Terminology Section Tightening Torque 4Nm (2.95 lb-ft.) Weight (cable/M8 connector) 50g (1.76 oz.) / 20g (0.71 oz.) Connection 2m (6.5') axial cable or M8 (8mm) connector Agency Approvals UL file E328811

## Wiring diagram

#### Diagram 1



#### Connector

VI8 connector



#### **Dimensions**

mm [inches]

#### Figure 1

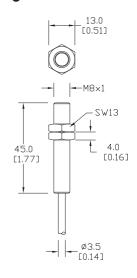
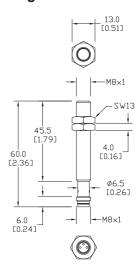


Figure 2



## 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

Part Number

CD08-0A-020-A1

CD08-0A-020-C1

CD08-0A-050-A1

CD08-0C-050-A1

CD08-0A-050-C1

CD08-0C-050-C1

CD08-0A-070-A1

CD08-0A-070-C1

Part Number

M12 Quick-Disconnects CD12M-0B-050-A1\*

CD12M-0D-050-A1\*

CD12M-0B-050-C1\*

CD12M-0D-050-C1\*

CD12L-0B-020-A0

CD12L-0B-020-C0

CD12M-0B-070-A1

CD12M-0B-070-C1

7000-12221-2141000

7000-12221-2141500

7000-12341-2141000

7000-12341-2141500

7000-12241-2150300

7000-12241-2150500

7000-12241-2151000

7000-12361-2150300

7000-12361-2150500

7000-12361-2151000

7000-17041-2950300

7000-17041-2950500

7000-17041-2951000

7000-17061-2950300

7000-17061-2950500

7000-17061-2951000

7000-19041-7050300

7000-19041-7050500

7000-19041-7051000

7000-19061-7050300

7000-19061-7050500

7000-19061-7051000

M8 Quick-Disconnects

• PVC (polyvinyl chloride) jacket for typical industrial applications

Jacket

PVC

PVC

PVC

**PUR** 

PVC

**PUR** 

PVC

PVC

PVC

PUR

PVC

PUR

PVC

PVC

PVC

PVC

**PVC** 

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PVC

PUR

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**Dimensions** 

Figure 1

Figure 2

Figure 4

Figure 3

Figure 5

Figure 5

Figure 1

Figure 2

Figure 8

Figure 9

Figure 10

Figure 11

Figure 6

Figure 7

Figure 6

Figure 7

Figure 13

Figure 13

Figure 14

Figure 14

Figure 15

Figure 15

Figure 15

Figure 16

Figure 16

Figure 16

Figure 17

Figure 17

Figure 17

Figure 18

Figure 18

Figure 18

Figure 19

Figure 19

Figure 19

Figure 20

Figure 20

Figure 20

Jacket Dimensions

- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated

Connector

Axial female

Right-angle female

Axial female

Axial female

Right-angle female

Right-angle female

Axial female

Right-angle female

**Connector** 

Axial female

Axial female

Right-angle female

Right-angle female

Axial female

Right-angle female

Axial female

Right-angle female

Axial female

Axial female

Right-angle female

Right-angle female

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Right-angle female

Right-angle female

Axial female

Axial female

Axial female

Right-angle female

Right-angle female

Right-angle female

Axial female

Axial female

Axial female

Right-angle female

Right-angle female

Right-angle female

M8 Quick-Disconnect Cables (Pico, Nano)

3

3

3

3

3

3

3

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)

**Poles** 

3

3

3

4

4

4

4

4

4

5

5

5

5

5

5

8

8

8

8

8

12

12

12

12

12

12

Price | Length | Poles

2m (6.5 ft.)

2m (6.5 ft.)

5m (16.4 ft.)

5m (16.4 ft.)

5m (16.4 ft.)

5m (16.4 ft.)

7m (23 ft.)

7m (23 ft.)

Length

5m (16.4 ft)

5m (16.4 ft)

5m (16.4 ft)

5m (16.4 ft)

2m (6.5 ft)

2m (6.5 ft)

7m (23 ft)

7m (23 ft)

10m (32.8 ft)

15m (49.2 ft)

10m (32.8 ft)

15m (49.2 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

3m (9.8 ft)

5m (16.4 ft)

10m (32.8 ft)

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Price

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Note: Do not use with sensors that require 4-pole cables.



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Pneumatics

Protection



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



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





7000-12221-2141000





7000-19041-7050500



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





7000-12241-2150500



## 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)					le 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



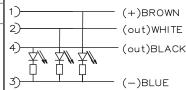
M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)								
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions	
M12 Quic	M12 Quick-Disconnects							
EVC178*	<>	2m (6.5 ft)	4	Right-angle female	Yes	PUR	Figure 12	
EVC179*	<>	5m (16.4 ft)	4	Right-angle female	Yes	PUR	Figure 12	
EVC180*	<>	10m (32.8 ft)	4	Right-angle female	Yes	PUR	Figure 12	

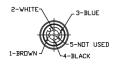
\*Note: LED for 10 to 36 VDC PNP devices only.

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
إد	ogenication		INO	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	250	VAC/VDC	30 VAC/VDC; 125 VAC/VDC; 250 VAC/VDC
Max Cu	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 Cui	rrent Loading			1	N/A	
Protecti	ion Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67
Materia	l Nut		Nickel pla	ited brass		Nickel plated Zinc
Housing	g Material	Polyurethane (PUR) or Polyvinyl-chloride (PVC)				
Contact	s Material		Gold plated Coppe	er-Tin Alloy (CuS	n)	Gold plated brass
Tighten	ing Torque	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 Nm
Conduction (AV	tors Cross Sec- VG)	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
Temper	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)
Environ	mental	N/A	Halogen/Silicone free	N/A	Halogen/Silicone free	N/A
LED	n Display Power	N/A				
	ng Status LED	N/A				
olle Suit-	Bending Radius			min. 10 x	cable diameter	
in (F ay) S lity	Bending Cycles	N/A				
Drag Chain (Roller Cable Tray) Suit- ability	Travel Speed				N/A	
Drag Cab	Torsional Strain				N/A	
	Approvals		Ro	HS		RoHS (UL E325311 8/12 pole)



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Product Index

Part # Index

e29-215

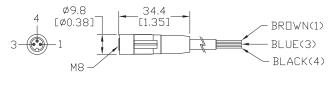
		Cable Specifications				
5	Specification	M12 7000 Series (shielded)	M12 with LED			
Length		5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)			
Nominal	Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC			
Max Curr	ent	2A / 4A	4A			
LED Current Loading		N/A	10 V input Brown wire LED: 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				
Tightenin	g 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	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			
	g Status LED	N/A	2 x Yellow			
Bending Radius		min. 10 x cable dia	ameter			
Chain r Cabl	Bending Cycles	N/A	>5 million			
Drag Chain Roller Cable ay) 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>			
Tree	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					
<b>EVC180</b> ADOAH043MSS0010H04						
Note: Shown in U	Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number					

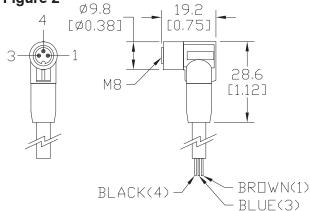
#### **Dimensions**

mm [inches]

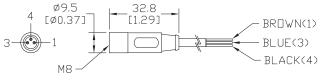
#### Figure 1



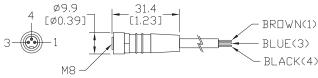
#### Figure 2



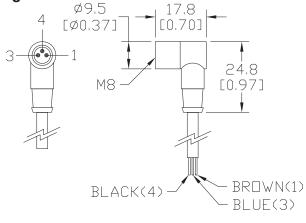
#### Figure 3



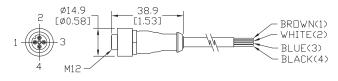
#### Figure 4



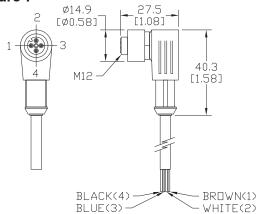
#### Figure 5



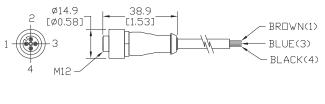
#### Figure 6



#### Figure 7



#### Figure 8



oured)

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e29-217

#### **Dimensions**

mm [inches]

Figure 9

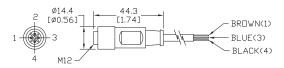


Figure 11 2 014.5 26.0 1.021 33.5 1.321 BLACK(4) BROWN(1) BLUE(3)

Figure 13

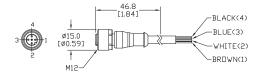


Figure 15

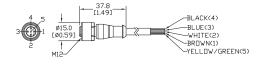


Figure 10

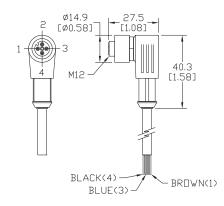


Figure 12

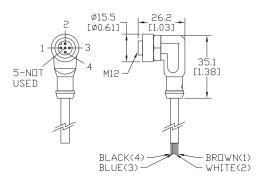


Figure 14

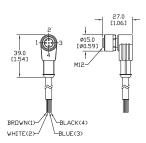
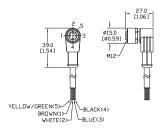


Figure 16



# MAFM and MAFK Series IP69K-rated Magnetic Proximity Sensors

Magnetic	Magnetic Series Specifications				
Series	MAFM	MAFK			
Mounting Type	Shiel	ded			
Nominal Sensing Distance	0 to 60 mm (0 to 2.362 in)	0 to 70 mm (0 to 2.756 in)			
Operating Distance	N/.	A			
Material Correction Factors	N/s	A			
Output Type	PNP, N.	O. only			
Operating Voltage	10 to 30	O VDC			
No-load Supply Current	<10	mA			
Operating (Load) Current	200r	mA			
Off-state (Leakage) Current	N/.	A			
Voltage Drop	<2.5 V				
Switching Frequency	5000 Hz VDC				
Differential Travel (% of Nominal Distance)	1 to 10%				
Repeat Accuracy	10%				
Ripple	N/A				
Time Delay Before Availability (tv)	1s				
Reverse Polarity Protection	yes				
Short-Circuit Protection	yes (non l	latching)			
Operating Temperature	0° to 100°C (3	32° to 212°F)			
Protection Degree (DIN 40050)	IEC IP68/	IP69K, II			
Indication/Switch Status	Normally Open outpu	t energized - Yellow			
Housing Material	316L stainless steel				
Sensing Face Material	PEEK (Polyether Ether Ketone)				
Shock/Vibration	See Terminology Section				
Tightening Torque	<b>htening Torque</b> 20 Nm (14.75 lb-ft) 50 Nm (37 lb-ft)				
Weight	33 g (1.16 oz)	54 g (1.90 oz)			
Connection	M12 cor	nnector			
Agency Approvals	UL E32881, CE,	ECOLAB, RoHS			

### **Dimensions**

mm [inches]

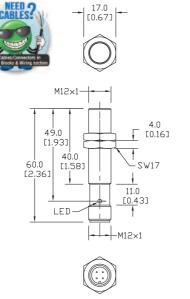
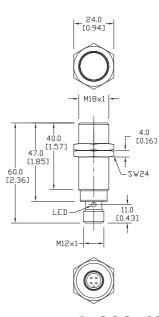


Figure 2



# **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.



<b>Brackets</b>				
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		

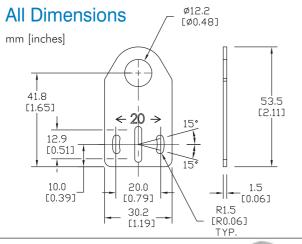


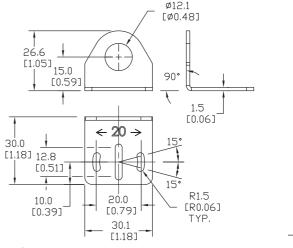
## ST12C right-angle bracket

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		



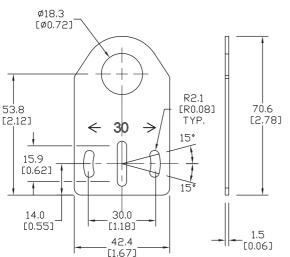


## ST18A axial bracket

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		

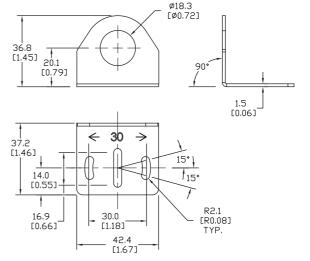


# ST18C right-angle bracket

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.



<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		



Company Information

Systems Overview

Programmable

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Controls

Photo Sensors

Limit Switches

Encoders

Sensors

Pressure Sensors

Temperature

Pushbuttons/ Liahts

Process

Relays/ Timers

Comm. Terminal

Blocks &

Power

Circuit

Enclosures

Tools

Pneumatics Safety

Appendix

Product

Part #

# 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.

Inductive proximity sensors warranty form may be obtained online at:

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

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Appendix Product

Part #