AES Series Inductive Proximity Sensors

Miniature M8 (8mm) stainless steel - DC



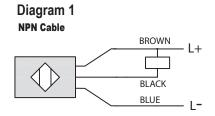
- NPN or PNP, N.O. or N.C.
- Complete overload protection
- IP67 rated

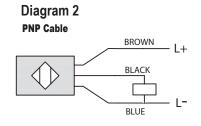
- Stainless steel construction
- Yellow output LED 360 degree visible
- · Lifetime warranty



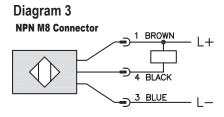
		AES S	eries M8 D	C Inductive	Proximity S	Selection Chart		
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Wiring	Drawing Link
Standard Distant	се							
AES-AN-1A	\$19.00				NPN	2m [6.5 ft] axial cable	Diagram 1	PDF
AES-AP-1A	\$19.00			N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF
AES-AN-1F	\$21.50			N.O.	NPN	M8 connector	Diagram 3	PDF
AES-AP-1F	\$21.50	4 5 50 001	Flush		PNP	M8 connector	Diagram 4	PDF
AES-CN-1A	\$19.00	1.5 [0.06]		N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	PDF
AES-CP-1A	\$19.00				PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>
AES-CN-1F	\$21.50				NPN	M8 connector	Diagram 3	PDF
AES-CP-1F	\$21.50				PNP	M8 connector	Diagram 4	<u>PDF</u>
Extended Distant	се							
AES-AN-3A	\$24.00				NPN	2m [6.5 ft] axial cable	Diagram 1	PDF
AES-AP-3A	\$24.00			N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF
AES-AN-3F	\$25.00				NPN	M8 connector	Diagram 3	PDF
AES-AP-3F	\$25.00	2 10 001	Flueb		PNP	M8 connector	Diagram 4	PDF
AES-CN-3A	\$24.00	2 [0.08]	Flush		NPN	2m [6.5 ft] axial cable	Diagram 1	<u>PDF</u>
AES-CP-3A	\$24.00			N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>
AES-CN-3F	\$25.00			N.C.	NPN	M8 connector	Diagram 3	PDF
AES-CP-3F	\$25.00				PNP	M8 connector	Diagram 4	PDF

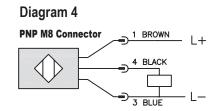
Wiring Diagrams











AES Series Inductive Proximity Sensors

AES Se	AES Series Specifications					
Specification	Standard Distance	Extended Distance				
Mounting Type		Flush				
Nominal Sensing Distance	1.5 mm [0.06 in]	2mm [0.078 in]				
Operating Distance	NA					
Material Correction Factors	See the Material influence table					
Output Type	NPN	or PNP/N.O. or N.C./3-wire				
Operating Voltage		10 to 30 VDC				
No-load Supply Current		≤ 10mA				
Operating (Load) Current		≤ 100mA				
Off-state (Leakage) Current		≤ 10 µA				
Voltage Drop		≤1.5 V				
Switching Frequency	7kHz					
Differential Travel (% of Nominal Distance)	≤ 10%					
Repeat Accuracy		≤ 5%				
Ripple		≤ 10%				
Time Delay Before Availability (tv)		≤ 50 ms				
Reverse Polarity Protection		Yes				
Short-Circuit Protection		Yes (auto-reset)				
Operating Temperature	-25 to 70°C [-13 to 158° F]					
Protection Degree (DIN 40050)		IP67				
Indication/Switch Status	Ye	llow output (on energized)				
Housing Material	Stainless Steel					
Sensing Face Material	Polybutylene Terephthalate					
Shock/Vibration	See Proximity Sensor Terminology					
Tightening Torque	4Nm (2.95 lb-ft)					
Weight	30g [1.06 oz] (cable version) 4g [0.14 oz] (M8 connector)					
Connection	2m [6.5 ft] PUR Cable or M8 Connector					
Agency Approvals		CE cULus E187310				

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

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Accessories for 8mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors								
Part Number	Price	Description	Drawing Link	Weight [lb]				
ST08A	\$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	<u>PDF</u>	0.04				



ST08A

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors								
Part Number	Price	Description	Drawing Link	Weight [lb]				
<u>ST08C</u>	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04				



ST08C

Accessories for 8mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 8mm sensors.

Accessories for 8mm Sensors							
Part Number Price		Description	Drawing Link	Weight [lb]			
<u>OPT2101</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	PDF	0.02			



OPT2101

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment. For use with 8mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.

	Accessories for 8mm Sensors								
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight [lb]			
<u>OPT2112</u>	\$11.50	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	<u>PDF</u>	0.14			
<u>OPT2113</u>	\$21.00	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	<u>PDF</u>	0.26			



OPT2112 & OPT2113

Note: 304 Stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm length), <u>OPT2110</u> (300mm length), and <u>OPT2111</u> (500mm length).

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets								
Part Number	Price	Description	Drawing Link	Weight lb (g)					
<u>OPT2109</u>	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]					
<u>OPT2110</u>	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]					
<u>OPT2111</u>	\$21.00	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	<u>PDF</u>	0.98 [444.52]					



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors								
Part Number Price Description		Drawing Link	Weight Ib [g]					
<u>OPT2108</u>	\$16.00	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]				



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