

# **Achie** ✓ e<sup>™</sup> Inductive Proximity Sensors **PAE Series**



## Tubular M8 (8mm) Stainless Steel - DC

### **Features**

- 304 stainless steel construction
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- LED status indicator
- · Mounting hardware included
- · Lifetime warranty









### PAE-AP-2F

PAE-AP-1A

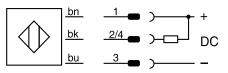
	Tubular M8 DC Inductive Proximity Sensors PAE Series Selection Chart										
Part Number	Price	Sensing Distance mm [in]	Mounting	Output State	Logic	Connection	Weight g [oz]	Body Size mm [in]	Drawing Link		
PAE-AP-1A	\$13.00	1.5 [0.05]	Flush	N.O.	PNP	PVC, 3-wire pigtail 2m [6.5 ft], 26AWG	40.2 [1.41]	22 [0.86]	<u>PDF</u>		
PAE-AP-1F	\$13.00					3-pin M8 quick-disconnect [purchase cable separately]	13 [0.45]	45 [0.77]	<u>PDF</u>		
PAE-AN-1F	\$13.00				NPN				<u>PDF</u>		
PAE-AP-2A	\$13.00	2.5 [0.09]	Non-flush			PNP		PVC, 3-wire pigtail 2m [6.5 ft], 26AWG	39.8 [1.40]	22 [0.86]	<u>PDF</u>
PAE-AP-2F	\$13.00			N.O.		3-pin M8 quick-disconnect	12.5 [0.44]	45 [0.77]	<u>PDF</u>		
PAE-AN-2F	\$13.00				NPN				<u>PDF</u>		

## **Wiring Diagrams**

### **PNP Cable**



#### **NPN Cable**



### **M8 Connector**





# **Achie** ✓ e<sup>™</sup> Inductive Proximity Sensors **PAE Series Specifications**

Tubular M8 DC Inductive Proximity Sensors PAE Series Specifications							
Mounting Type	Flush	Non-Flush					
Rated Operating Distance	1.5 mm [0.05 in]	2.5 mm [0.09 in]					
Assured Operating Distance	≤ (0.81 x	$(S_n)$ mm					
Repeat Accuracy	0.07 mm	0.12 mm					
Hysteresis	≤ 20'	% S <sub>r</sub>					
Temperature Drift	≤ 10'	% S <sub>r</sub>					
Material Correction Factors	See the Material	Influence Table					
Output Type	PNP or N	PN, N.O.					
Operating Voltage	10 to 30 VDC						
Residual Ripple	≤ 20% U <sub>B</sub>						
Output Current	≤ 200mA						
Output Voltage Drop	≤ 2.0 V @ 200mA						
Power Consumption (no-load)	≤ 10 mA						
Residual Current	≤ 0.1 mA						
Switching Frequency	5kHz	4.5 kHz					
Short-Circuit Protection	Ye	es					
Reverse Polarity Protection	Ye	es					
Operating Temperature	-25 to 70°C [-13 to 158°F]						
Protection Degree (DIN 40050)	IP67						
Indication/Switch Status	LED, Yellow Sensing state (0 ≤ s ≤ Sr)						
Mounting	Embeddable	Non-embeddable					
Housing Material	304 Stainless steel						
Sensing Face Material	PA66 (polyamide)	PBTP (Crastin) - glass fiber reinforced polybutylene terephthalate					
Shock/Vibration	IEC 60947-5-2						
Agency Approvals	cULus File E328811, CE						

To obtain the most current agency approval information, see the Agency Compliance & Certifications 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.	PDF	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		Description	Drawing Link	Weight [lb]			
ST08C	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04			



ST08C

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## **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).