

APS Inductive Proximity Sensors



**Top Sensing
APS4-12S-E-D**



**Front Sensing
APS4-12M-E-D**

Compact 12 x 27 / 8 x 26.5 mm plastic – DC

- 10 models available
- Compact polycarbonate housing; comes with mounting plate
- High-frequency oscillation type
- Top or front sensing models
- DC 2-wire or 3-wire
- NPN, PNP, or NPN/PNP
- NO or NC
- Axial cable
- LED indicator
- IP67 rated
- Lifetime warranty



**Top Sensing
APS25-8S-E-D**



**Front Sensing
APS25-8M-E-D**

Compact Rectangular DC Prox Selection Chart								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Top-Sensing								
APS25-8S-E-D	\$18.50	2.5mm (0.098 in)	Non-flush	NO	NPN	2m (6.5ft) axial cable	Diagram 1	Figure 1
APS4-12S-E-D	\$18.50	4mm (0.157in)		NO				NC
APS4-12S-E1-D	\$18.50			NO	PNP		Diagram 3	
APS4-12S-E2-D	\$18.50			NO	NPN/ PNP			
APS4-12S-Z-D	\$18.50			NO	NPN/ PNP			
Front-Sensing								
APS25-8M-E-D	\$18.50	2.5mm (0.098 in)	Non-flush	NO	NPN	2m (6.5ft) axial cable	Diagram 1	Figure 2
APS4-12M-E-D	\$18.50	4mm (0.157in)		NO				NC
APS4-12M-E1-D	\$18.50			NO	PNP		Diagram 3	
APS4-12M-E2-D	\$18.50			NO	NPN/ PNP			
APS4-12M-Z-D	\$18.50			NO	NPN/ PNP			

Wiring diagrams

Diagram 1

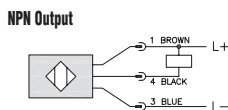


Diagram 2

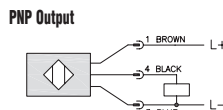
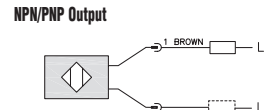


Diagram 3



APS Inductive Proximity Sensors

Specifications		
	APS25	APS4
Mounting Type	Non-flush	
Nominal Distance	2.5 mm [0.09 in]	4mm [0.157 in]
Operating Distance	NA	
Material Correction Factor	See the Material influence table	
Output Type	See sensor selection chart	
Operating Voltage	10-30 VDC	
No-load Supply Current	≤20 mA	≤20 mA (NA for Z)
Operating (Load) Current	≤50mA	
Off-state (Leakage) Current	≤0.1 mA (≤1.0 mA for Z units)	
Voltage Drop	≤1.0 VDC (< 3V for Z models)	
Switching Frequency	500Hz	200Hz
Differential Travel	<20%	
Repeat Accuracy	NA	
Ripple	NA	
Time Delay Before Availability (tv)	5ms	
Reverse Polarity Protection	NA	
Short Circuit Protection	NA	
Operating Temperature	-10° to +50° C (14° to 122° F)	
Protection Degree (DIN 40 050)	IEC IP67	
Indication/Switch Status	Embedded red LED (illuminated when output is active)	
Housing, Sensing Face Material	Polycarbonate	
Shock/Vibration	See Proximity Sensor Terminology	
Tightening Torque	<0.4 Nm	
Weight (cable/M8 connector)	0.0816 lb	
Connection	2m (6.5 ft) axial cable	
Agency Approvals	CE, cURus (UR E198343)	

Dimensions

mm [inches]

Figure 1

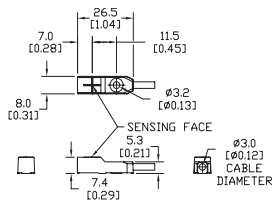


Figure 2

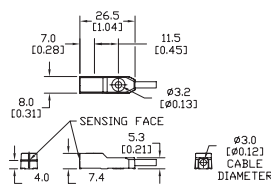


Figure 3

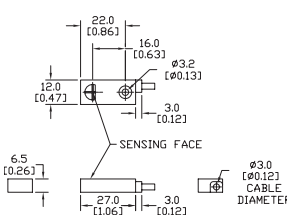
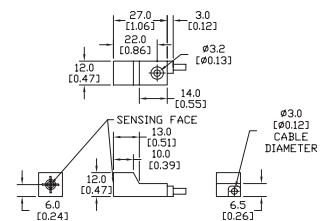
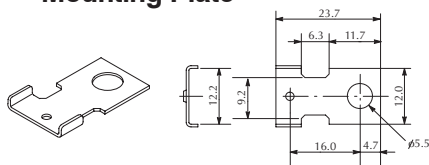


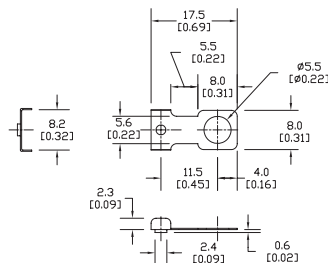
Figure 4



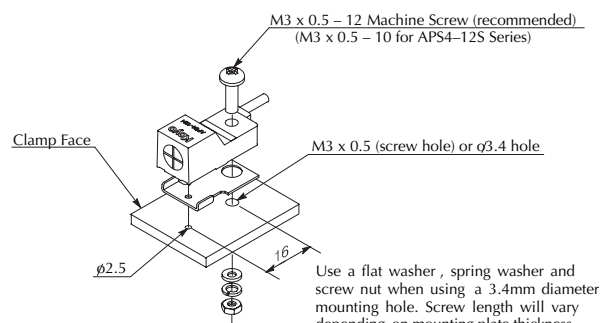
Mounting Plate



Supplied with APS4x sensors



Supplied with APS25x sensors



Use a flat washer, spring washer and screw nut when using a 3.4mm diameter mounting hole. Screw length will vary depending on mounting plate thickness.