APS Inductive Proximity Sensors



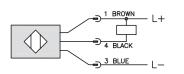
Compact 12 x 27 / 8 x 26.5 mm plastic – DC

- 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
- N.O. or N.C.
- Axial cable
- LED indicator
- IP67 rated
- Lifetime warranty

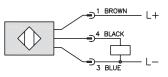
Compact Rectangular DC Proximity Selection Chart								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Top-Sensing								
<u>APS25-8S-E-D</u>	\$22.50	2.5mm [0.098 in] 4mm [0.157 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1 [−]	Figure 1
<u>APS4-12S-E-D</u>	\$22.50			N.O.				Figure 3
<u>APS4-12S-E1-D</u>	\$22.50			N.C.				
APS4-12S-E2-D	\$22.50			N.O.	PNP		Diagram 2	
<u>APS4-12S-Z-D</u>	\$22.50			N.O.	NPN/ PNP		Diagram 3	
Front-Sensing								
<u>APS25-8M-E-D</u>	\$22.50	2.5mm [0.098 in]		N.O.				Figure 2
<u>APS4-12M-E-D</u>	\$22.50	4mm [0.157 in]	N.O.	NPN	2m [6.5 ft]	Diagram 1		
<u>APS4-12M-E1-D</u>	\$22.50		Non-flush	N.C.		axial cable		Figure 4
<u>APS4-12M-E2-D</u>	\$22.50			N.O.	PNP		Diagram 2	
APS4-12M-Z-D	\$22.50	1		N.O.	NPN/ PNP		Diagram 3	

Wiring Diagrams

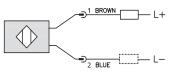
Diagram 1 NPN Output











1-800-633-0405 For the latest p APS Inductive Proximity Sensors

Compact Rectangular DC Proximity 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	≤ 20mA	\leq 20mA (NA for Z)					
Operating (Load) Current	≤ 50mA						
Off-state (Leakage) Current	\leq 0.1 mA (\leq 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 40050)	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]

