PD Series Inductive Proximity Sensors



Miniature M5 (5 mm) stainless steel - DC

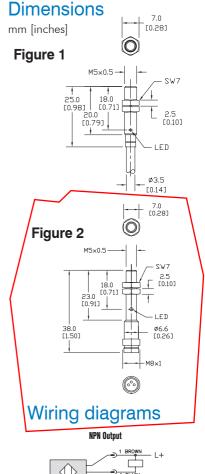
- Eight models available
- Stainless steel construction
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- IP67 rated

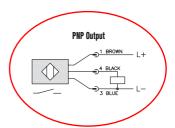
- Smallest self-contained inductive proximity sensor available on the U.S. market
- LED status indicator
- · Lifetime warranty



PD Series M5 DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Dimensions	
Standard Distance								
PD1-AN-1A	\$41.00	0.8 mm	Shielded	NO	NPN	2 m (6.5') axial cable	Figure 1	
PD1-AP-1A	\$41.00				PNP	2 m (6.5') axial cable	Figure 1	
PD1-AN-1F	\$41.00	(0.03 in)			NPN	M8 (8 mm) connector	Figure 2	
PD1-AP-1F	\$41.00				PNP	M8 (8 mm) connector	Figure 2	
Extended Distance								
PD1-AN-3A	\$49.00		Shielded	N.O	NPN	2 m (6.5') axial cable	Figure 1	
PD1-AP-3A	\$49.00	1.5 mm			PNP	2 m (6.5') axial cable	Figure 1	
PD1-AN-3F	\$49.00	(0.06 in)	SHIEIUEU		NPN	M8 (8 mm) connector	Figure 2	
PD1-AP-3F	\$49.00	>			PNP	M8 (8 mm) connector	Figure 2	

PD Series Specifications						
Mounting Type	Standard Distance	Extended Distance				
Mounting Type	Shielded					
Nominal Sensing Distance	0.8 mm (0.03 in)	1.5 mm (0.06 in)				
Operating Distance	NA					
Material Correction Factors	See the Material influence table					
Output Type	NPN of PNP/NO only/3-wire					
Operating Voltage	10 to 30 VDC					
No-load Supply Current	≤10mA					
Operating (Load) Current	≤200mA					
Off-state (Leakage) Current	≤10µA	≤0.1mA				
Voltage Drop	≤2.0 V					
Switching Frequency	5 kHz	3 kHz				
Differential Travel (% of Nominal Distance)	≤10%					
Repeat Accuracy	≤1.5%					
Ripple	≤20%					
Time Delay Before Availability (tv)	10 ms					
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	Yellow (outpu	ut energized)				
Housing Material	Stainless steel					
Sensing Face Material	Polybutylene Terephthalate (PBT)	Polyester				
Shock/Vibration	See Proximity Sensor Terminology					
Tightening Torque	1.5 Nm (13	3.3 lb./in.)				
Weight	43 g (1.52 oz)/10 g (0.36 oz)	34 g (1.20 oz)/4 g (0.14 oz)				
Connection	2 meter PVC axial cable / M8 connector					
Agency Approvals	UL file E328811					





3 BLUE

Connector M8 connector



tSEN-12 Proximity Sensors 1 - 8 0 0 - 6 3 3 - 0 4 0 5