1-800-633-0405 **PD Series Inductive Proximity Sensors**

Miniature M5 (5mm) Stainless Steel – DC

- Stainless steel construction
- Axial cable or M8 quickdisconnect models
- · Complete overload protection
- IP67 rated

• Smallest self-contained inductive proximity sensor available on the U.S. market

· LED status indicator

Lifetime warranty



2.5 [0.10]

LED

SW7

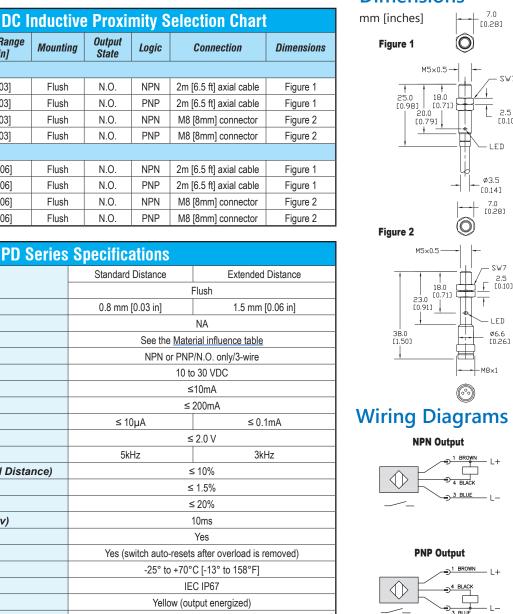
LED

Ø6.6 [0.26]

1+

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Dimensions







PD Series M5 DC Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Dimensions			
Standard Distance										
PD1-AN-1A	\$54.00	0.8 [0.03]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PD1-AP-1A	\$54.00	0.8 [0.03]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
PD1-AN-1F	\$54.00	0.8 [0.03]	Flush	N.O.	NPN	M8 [8mm] connector	Figure 2			
PD1-AP-1F	\$54.00	0.8 [0.03]	Flush	N.O.	PNP	M8 [8mm] connector	Figure 2			
Extended Distance										
PD1-AN-3A	\$64.00	1.5 [0.06]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PD1-AP-3A	\$64.00	1.5 [0.06]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
PD1-AN-3F	\$64.00	1.5 [0.06]	Flush	N.O.	NPN	M8 [8mm] connector	Figure 2			
PD1-AP-3F	\$64.00	1.5 [0.06]	Flush	N.O.	PNP	M8 [8mm] connector	Figure 2			

Mounting Tuno	Otariaara Distarioo	Externaca Distance		
Mounting Type	Flush			
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 or PNP/N.O. 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	5kHz	3kHz		
Differential Travel (% of Nominal Distance)	≤ 10%			
Repeat Accuracy	≤ 1.5%			
Ripple	≤ 20%			
Time Delay Before Availability (tv)	10ms			
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 (output energized)			
Housing Material	Stainless steel			
Sensing Face Material	Polybutylene Terephthalate [PBT]	Polyester		
Shock/Vibration	See Proximity Sensor Terminology			

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific

1.5 Nm (13.3 lb./in.)

2 meter [6.5 ft] PVC axial cable / M8 connector

UL file E328811

34g [1.20 oz]/4g [0.14 oz]

43g [1.52 oz]/10g [0.36 oz]

Tightening Torque

Agency Approvals

part number's web page.

Weight

Connection

1-800-633-0405 Accessories for 5mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 5mm sensors.

Accessories for 5mm Sensors									
Part Number	Price	Description	Drawing Link	Weight [lb]					
<u>OPT2100</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 5mm sensors.	PDF	0.02					



OPT2100