PY3 Series Inductive Proximity Sensors

Miniature Ø3 (3mm) Stainless Steel – DC

- Smooth barrel (no threads)
- Complete overload protection
- IP67 rated

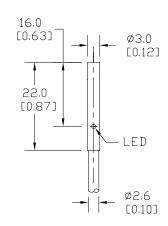
- Stainless steel construction
- LED status indicator
- Lifetime warranty

PY Series Ø3 DC Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Dimensions			
Standard Distance										
<u>PY3-AN-1A</u>	\$-09pi:	0.6 [0.024]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PY3-AP-1A	\$09pk:	0.6 [0.024]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
Extended Distance										
PY3-AN-3A	\$-009pj:	1 [0.039]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
<u> PY3-AP-3A</u>	\$-009pl:	1 [0.039]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			

Dimensions

mm [inches]

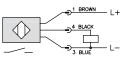
Figure 1



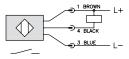
PY Series Specifications Specification Standard Distance Extended Distance Mounting Type Flush 0.6 mm [0.024 in] Nominal Sensing Distance 1mm [0.039 in] **Operating Distance** NA NA Material Correction Factors See the Material Influence table Output Type NPN or PNP, N.O. only, 3-wire **Operating Voltage** 10 to 30 VDC **No-load Supply Current** ≤ 10mA **Operating (Load) Current** ≤ 100mA Off-state (Leakage) Current ≤ 10µA \leq 0.1mA Voltage Drop ≤ 2.0 V Switching Frequency 5kHz 3kHz Differential Travel (% of Nominal Distance) ≤ 10% **Repeat Accuracy** ≤ 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 Polyester Shock/Vibration See Proximity Sensor Terminology **Tightening Torque** NA Weight 23g [0.81 oz] 22g [0.78 oz] Connection 2 [6.5 ft] meter PVC cable UL file E328811 Agency Approvals

Wiring Diagrams

PNP Output







To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Accessories for 3mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, 316L stainless steel. Package of 2. For use with 3mm sensors.

Accessories for 3mm Sensors									
Part Number	Price	Description		Weight [lb]					
<u>OPT2037</u>	\$1nll:	Wenglor mounting bracket, right-angle, 316L stainless steel. Package of 2. For use with 3mm sensors.	<u>PDF</u>	0.02					



OPT2037