PY4 Series Inductive Proximity Sensors



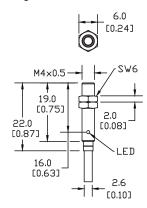
- Miniature M4 (4mm) Stainless Steel DC
- Complete overload protection
- IP67 rated
- Stainless steel construction
- LED status indicator
- Lifetime warranty

PY Series M4 DC Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Dimensions			
Standard Distance										
<u> PY4-AN-1A</u>	\$95.00	0.6 [0.024]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
<u> PY4-AP-1A</u>	\$95.00	0.6 [0.024]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
Extended Distance										
<u>PY4-AN-3A</u>	\$105.00	1 [0.039]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PY4-AP-3A	\$105.00	1 [0.039]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			

Dimensions

mm [inches]

Figure 1

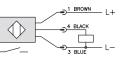


PY Series Specifications								
Specification	Standard Distance	Extended Distance						
Mounting Type	Flush							
Nominal Sensing Distance	0.6 mm [0.024 in]	1mm [0.039 in]						
Operating Distance	NA							
Material Correction Factors	See the Material influence table							
Output Type	NPN or PNP/N.O. only/3-wire							
Operating Voltage	10 to 30 VDC							
No-load Supply Current	≤ 10mA							
Operating (Load) Current	≤ 100mA							
Off-state (Leakage) Current	≤ 10µA	≤ 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	0.8 N•m [7.08 lb•in]							
Weight	23g [0.81 oz]	26g [0.92 oz]						
Connection	2m [6.5 ft] PVC cable							
Agency Approvals	UL file E328811							

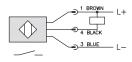
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Wiring Diagrams

PNP Output



NPN Output



Accessories for 4mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 4mm sensors.

Accessories for 4mm Sensors								
Part Number	Price	Description	Drawing Link	Weight [lb]				
<u>OPT2106</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02				



<u>OPT2106</u>