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										
PY4-AN-1A	\$09pn:	0.6 [0.024]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PY4-AP-1A	\$09pp:	0.6 [0.024]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
Extended Distance										
PY4-AN-3A	\$009po:	1 [0.039]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PY4-AP-3A	\$009pq:	1 [0.039]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			

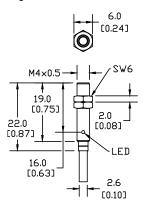
PY Series Specifications								
Specification	Standard Distance	Extended Distance						
Mounting Type	Flush							
Nominal Sensing Distance	0.6 mm [0.024 in]	1mm [0.039 in]						
Operating Distance	NA							
Material Correction Factors	See the Material influence table							
Output Type	NPN or PNP/N.O. 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 <u>Proximity Sensor Terminology</u>							
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.

Dimensions

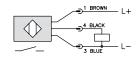
mm [inches]

Figure 1

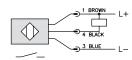


Wiring Diagrams

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>	\$-1nlv:	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02				



OPT2106

www.automationdirect.com Sense