PY4 Series Inductive Proximity Sensors



Miniature M4 (4mm) stainless steel - DC

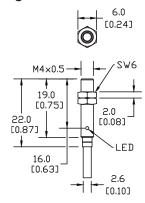
- Four models available
- Complete overload protection
- IP67 rated
- Stainless steel construction
- LED status indicator
- Lifetime warranty

PY Series M4 DC Inductive Prox Selection Chart										
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Dimensions			
Standard Dist	ance			1			1			
PY4-AN-1A		0.6 mm (0.024 in)	Flush	N.O.	NPN	2m [6.5 ft] axial cable Figure 1				
PY4-AP-1A		0.6 mm (0.024 in)	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			
Extended Dist	ance									
PY4-AN-3A		1mm (0.039 in)	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1			
PY4-AP-3A		1mm (0.039 in)	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1			

Dimensions

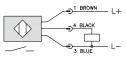
mm [inches]

Figure 1

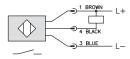


PY Series Specifications								
	Standard Distance	Extended Distance						
Mounting Type	Flush							
Nominal Sensing Distance	0.6 mm [0.02 in]	1mm [0.04 in]						
Operating Distance	NA							
Material Correction Factors	See the Material influence table							
Output Type	NPN or PNP/N.O. only/3-wire							
Operating Voltage	10 to 30 VDC							
No-load Supply Current	\leq 10mA							
Operating (Load) Current	\leq 100mA							
Off-state (Leakage) Current	$\leq 10 \mu A$	\leq 0.1mA						
Voltage Drop	\leq 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							

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>		Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02					



OPT2106