

PY4 Series Inductive Proximity Sensors

Miniature M4 (4 mm) stainless steel – DC



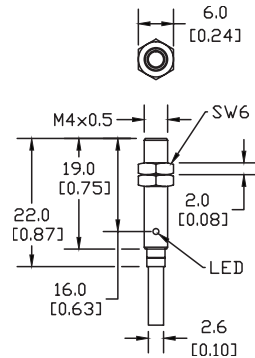
- Four models available
- Complete overload protection
- IP67 rated
- Stainless steel construction
- LED status indicator
- Lifetime warranty



Dimensions

mm [inches]

Figure 1

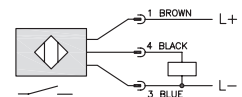


PY Series M4 DC Inductive Prox Selection Chart							
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Dimensions
Standard Distance							
PY4-AN-1A	\$72.00	0.6 mm (0.024 in)	Shielded	NO	NPN	2 m (6.5') axial cable	Figure 1
PY4-AP-1A	\$72.00				PNP	2 m (6.5') axial cable	Figure 1
Extended Distance							
PY4-AN-3A	\$79.00	1 mm (0.039 in)	Shielded	NO	NPN	2 m (6.5') axial cable	Figure 1
PY4-AP-3A	\$79.00				PNP	2 m (6.5') axial cable	Figure 1

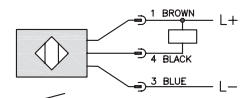
PY Series Specifications		
	Standard Distance	Extended Distance
Mounting Type	Shielded	
Nominal Sensing Distance	0.6 mm (0.02 in)	1 mm (0.04 in)
Operating Distance	NA	
Material Correction Factors	See the Material influence table	
Output Type	NPN or PNP/NO only/3-wire	
Operating Voltage	10 to 30 VDC	
No-load Supply Current	≤10mA	
Operating (Load) Current	≤100mA	
Off-state (Leakage) Current	≤10µA	≤0.1mA
Voltage Drop	≤2.0 V	
Switching Frequency	5 kHz	3 kHz
Differential Travel (% of Nominal Distance)	≤10%	
Repeat Accuracy	≤5%	
Ripple	≤20%	
Time Delay Before Availability (tv)	10 ms	
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 Nm (7.08 in./lbs.)	
Weight	23 g (0.81 oz)	26 g (0.92oz)
Connection	2 meter PVC cable	
Agency Approvals	UL file E328811	

Wiring diagrams

PNP Output



NPN Output



Accessories for 4mm Sensors

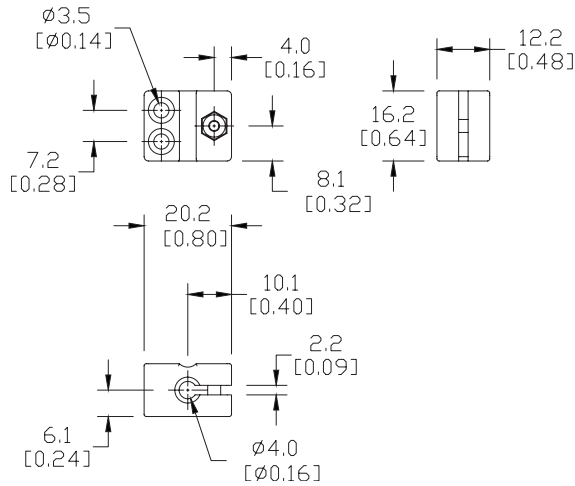
Right-angle Mounting Bracket

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

Accessories for 4mm Sensors			
Part Number	Price	Description	Weight [lb]
OPT2106	\$6.00	Mounting bracket, right-angle, plastic. For use with 4mm sensors.	0.02

Dimensions

mm [inches]



OPT2106

See our website: www.AutomationDirect.com for complete engineering drawings