

# 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
<b>Standard Distance</b>							
<a href="#">PY4-AN-1A</a>	\$95.00	0.6 [0.024]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1
<a href="#">PY4-AP-1A</a>	\$95.00	0.6 [0.024]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1
<b>Extended Distance</b>							
<a href="#">PY4-AN-3A</a>	\$105.00	1 [0.039]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1
<a href="#">PY4-AP-3A</a>	\$105.00	1 [0.039]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1

### PY Series Specifications

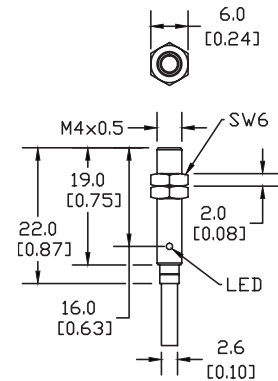
Specification	Standard Distance	Extended Distance
<b>Mounting Type</b>	Flush	
<b>Nominal Sensing Distance</b>	0.6 mm [0.024 in]	1mm [0.039 in]
<b>Operating Distance</b>	NA	
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>	
<b>Output Type</b>	NPN or PNP/N.O. only/3-wire	
<b>Operating Voltage</b>	10 to 30 VDC	
<b>No-load Supply Current</b>	≤ 10mA	
<b>Operating (Load) Current</b>	≤ 100mA	
<b>Off-state (Leakage) Current</b>	≤ 10μA	≤ 0.1mA
<b>Voltage Drop</b>	≤ 2.0 V	
<b>Switching Frequency</b>	5kHz	3kHz
<b>Differential Travel (% of Nominal Distance)</b>	≤ 10%	
<b>Repeat Accuracy</b>	≤ 5%	
<b>Ripple</b>	≤ 20%	
<b>Time Delay Before Availability (tv)</b>	10ms	
<b>Reverse Polarity Protection</b>	Yes	
<b>Short-Circuit Protection</b>	Yes [switch auto-resets after overload is removed]	
<b>Operating Temperature</b>	-25 to +70°C [-13 to 158° F]	
<b>Protection Degree (DIN 40050)</b>	IEC IP67	
<b>Indication/Switch Status</b>	Yellow [output energized]	
<b>Housing Material</b>	Stainless steel	
<b>Sensing Face Material</b>	Polyester	
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a>	
<b>Tightening Torque</b>	0.8 N•m [7.08 lb•in]	
<b>Weight</b>	23g [0.81 oz]	26g [0.92 oz]
<b>Connection</b>	2m [6.5 ft] PVC cable	
<b>Agency Approvals</b>	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

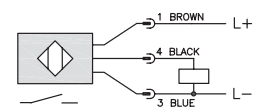
mm [inches]

Figure 1

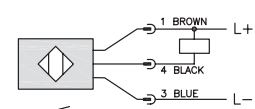


## Wiring Diagrams

### 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]
<a href="#">OPT2106</a>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	<a href="#">PDF</a>	0.02



[OPT2106](#)