#### Por the latest prices, please check Auton PNT Series Inductive Proximity Sensors

#### M30 (30mm) Bronze-plated Brass - DC

- Low cost/high performance
- Short and regular body styles
- IP65 / IP66 / IP67 / IP68 / IP69K rated
- Axial cable / M12 quick-disconnect; purchase cable separately
- Lifetime warranty



PNT Series Inductive Proximity Selection Chart (Short Body)									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
M30 Models (short body)									
PNT6-AN-4A	\$30.00	22mm [0.87 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 9	
PNT6-AN-4H	\$30.00	22mm [0.87 in]	Non-flush	N.O.	NPN	M12 [12mm] connector	Diagram 1	Figure 10	
PNT6-AP-3A	\$30.00	15mm [0.59in]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 9	
PNT6-AP-3H	\$30.00	15mm [0.59in]	Flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 10	
PNT6-AP-4A	\$30.00	22mm [0.87 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 9	
PNT6-AP-4H	\$30.00	22mm [0.87 in]	Non-flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 10	
PNT6-CP-3A	\$30.00	15mm [0.59 in]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 4	Figure 9	
PNT6-CP-3H	\$30.00	15mm [0.59 in]	Flush	N.C.	PNP	M12 [12mm] connector	Diagram 4	Figure 10	

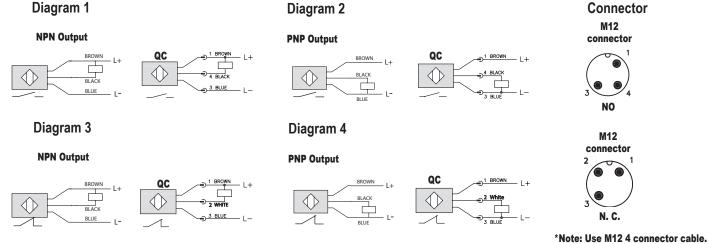
PNT Series Inductive Proximity Selection Chart (Regular Body)								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
M30 Models (regular body)								
PNT-AN-3A	\$31.00	15mm [0.59 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 11
PNT-AN-3H	\$31.00	15mm [0.59 in]	Flush	N.O.	NPN	M12 [12mm] connector	Diagram 1	Figure 12
PNT-AN-4A	\$31.00	22mm [0.87 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 11
PNT-AP-3A	\$31.00	15mm [0.59 in]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 11
PNT-AP-3H	\$31.00	15mm [0.59 in]	Flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 12
PNT-AP-4A	\$31.00	22mm [0.87 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 11
PNT-AP-4H	\$31.00	22mm [0.87 in]	Non-flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 12
PNT-CN-3A	\$31.00	15mm [0.59 in]	Flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 3	Figure 11
PNT-CN-3H	\$31.00	15mm [0.59 in]	Flush	N.C.	NPN	M12 [12mm] connector	Diagram 3	Figure 12
PNT-CP-3H	\$31.00	15mm [0.59 in]	Flush	N.C.	PNP	M12 [12mm] connector	Diagram 4	Figure 12

#### Por the latest prices, please check. PN Series Inductive Proximity Sensors

	PN Series Specifications						
Sensor	M12 Models (PNM)	M18 Models (PNK)	M30 Models (PNT)				
Mounting Type		Flush or Non-flush					
Nominal Sensing Distance	Flush: 4mm [0.16 in] Non-flush: 7mm [0.28 in]	Flush: 8mm [0.31 in] Non-flush:12mm [0.47 in]	Flush: 15mm [0.6 in] Non-flush: 22mm [0.79 in]				
Operating Distance	Flush: 0 to 3.24 mm Non-flush: 0 to 5.67 mm	Flush: 0 to 6.48 mm Non-flush: 0 to 9.72 mm	Flush: 0 to 12.15 mm Non-flush: 0 to 17.82 mm				
Material Correction Factors		See the Material influence table					
Output Type		NPN or PNP, N.O. or N.C.					
Operating Voltage		10 to 30 VDC					
No-load Supply Current		<10 mA					
Operating (Load) Current		100mA					
Off-state (Leakage) Current		For 3-wire [< 50µ]					
Voltage Drop	<2.5 V						
Switching Frequency	700Hz	Flush 400Hz; Non-flush 300Hz	100Hz				
Differential Travel (% of Nominal Distance)	3 - 15						
Repeat Accuracy		< 10%					
Ripple	NA						
Time Delay Before Availability (tv)	NA						
Reverse Polarity Protection	Yes						
Short-circuit Protection		Yes, pulsed					
Operating Temperature		-40 to 85°C [-40 to 185°F]					
Protection Degree (DIN 40050)	IP65, IP66, IP67, IP68, IP69K						
Indication/Switch Status	Yellow (output	energized), 1 LED prewired/4 LEDs for qu	ick disconnect				
Housing Material	Hous	ing: brass, bronze-plated; PEI; Lock nuts:	brass				
Sensing Face Material		Polybutylene Terephthalate [PBT]					
Shock/Vibration		See Proximity Sensor Terminology					
Tightening Torque	Connector type: 7Nm [1.57 lb-ft] Cable type: 12Nm [2.70 lb-ft]	25 Nm [5.62 lb-ft]	50Nm [11.21 lb-ft]				
Weight		NA					
Connectors	M12 cor	nnector/2m [6.5 ft] axial cable. 2 lock nuts i	ncluded				
Agency Approvals	M12 Connector versions cUL	us file E328811, CE, RoHS; Cable version	s UL file E328811, CE, RoHS				

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

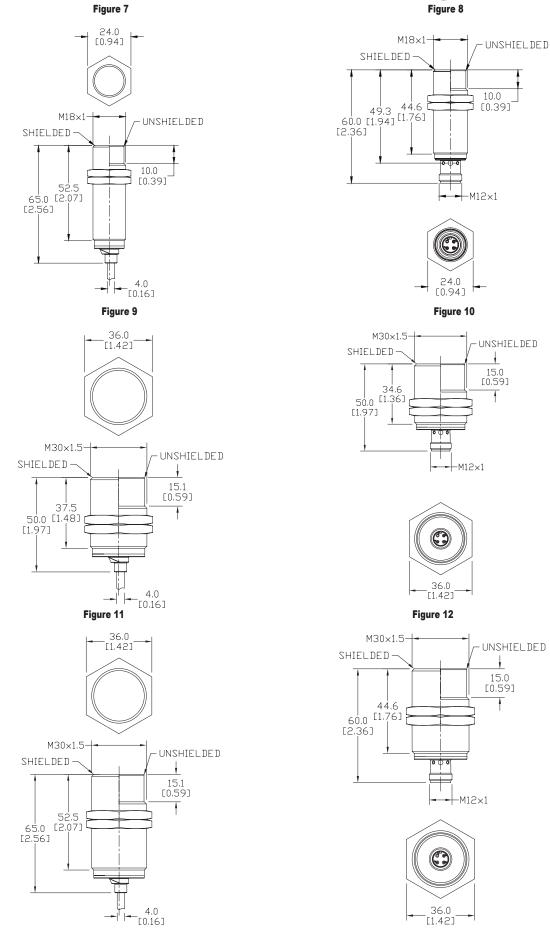
#### Wiring diagrams



Note: Use M12 4 connector cable. M12 3 connector cable will not work for normally closed units.

www.automationdirect.com

# 1-800-633-0405 For the latest prices, please check A PN Series Inductive Proximity Sensors



www.automationdirect.com

## Accessories for 30mm Sensors

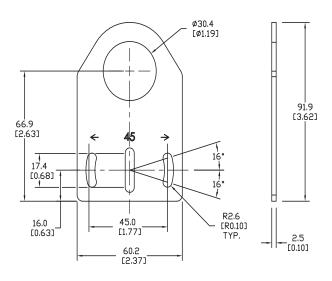
#### **Axial Mounting Bracket**

Mounting bracket, axial, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

	Accessories for 30mm Sensors						
Part Number	Price	Description	Weight Ib [g]				
<u>ST30A</u>	\$2.25	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]				

#### **Dimensions**

mm [inches]

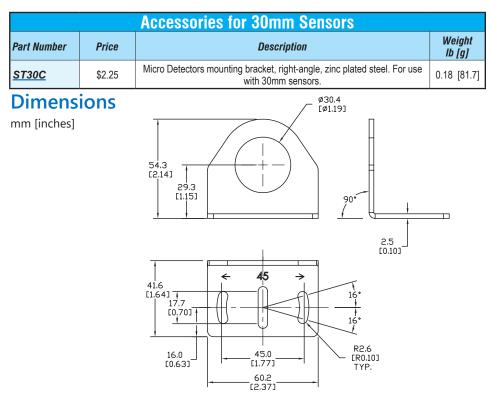




<u>ST30A</u>

#### **Right-angle Mounting Bracket**

Mounting bracket, right-angle, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.





<u>ST30C</u>

#### 1-800-633-0405 Accessories for 30mm Sensors

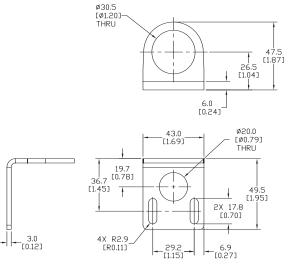
#### **Right-angle Mounting Bracket**

Mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.

Accessories for FW Series Sensors						
Part Number	Price	Description	Weight Ib [g]			
<u>ST30C6W</u>	\$5.50	AutomationDirect mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.	0.15 (68.0)			

#### Dimensions

mm [inches]





ST30C6W

#### **Right-angle Swivel Mounting Systems**

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 30mm sensors. Available in all 304 stainless steel or with an aluminum head with a 304 stainless steel mounting plate.

	Accessories for 30mm Sensors									
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]				
<u>OPT2118</u>	\$11.50	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 30mm sensors.	Aluminum	304 Stainless steel	<u>PDF</u>	0.18 [81.7]				
<u>OPT2119</u>	\$21.00	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 30mm sensors.	304 Stainless Steel	304 Stainless steel	<u>PDF</u>	0.18 [81.7]				



Note: 304 Stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm [7.87 in] length), <u>OPT2110</u> (300mm [11.81 in] length), and <u>OPT2111</u> (500mm [19.69 in] length).

OPT2118, OPT2119

### 1-800-633-0405 Mounting Rods and Brackets

#### **Mounting Rods**

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	Weight Ib (g)				
<u>OPT2109</u>	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$21.00	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	PDF	0.98 [444.52]				



#### **Right-angle Mounting Bracket**

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods <u>OPT2109</u>, <u>OPT2110</u> & <u>OPT2111</u>.

Right-angle Mounting Brackets for 12mm Sensors							
Part Number Price Description				Weight Ib [g]			
<u>OPT2108</u>	\$16.00	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]			

