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	\$;0t_y:	22mm [0.87 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 9
PNT6-AN-4H	\$;0t_z:	22mm [0.87 in]	Non-flush	N.O.	NPN	M12 [12mm] connector	Diagram 1	Figure 10
PNT6-AP-3A	\$;;0t_]:	15mm [0.59in]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 9
PNT6-AP-3H	\$;;0t_[:	15mm [0.59in]	Flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 10
PNT6-AP-4A	\$;0t:	22mm [0.87 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 9
PNT6-AP-4H	\$;0t_#:	22mm [0.87 in]	Non-flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 10
PNT6-CP-3A	\$;0t#1:	15mm [0.59 in]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 4	Figure 9
PNT6-CP-3H	\$;0t#2:	15mm [0.59 in]	Flush	N.C.	PNP	M12 [12mm] connector	Diagram 4	Figure 10

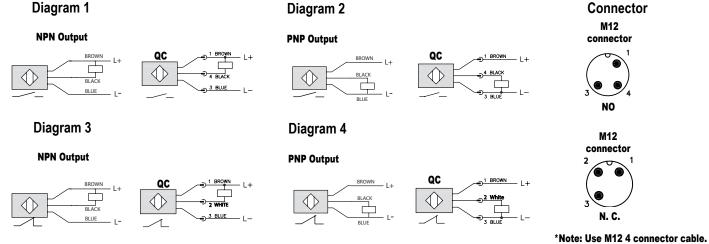
PNT Series Inductive Proximity Selection Chart (Regular Body)								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
M30 Models (regular body)								
PNT-AN-3A	\$;;0t#!:	15mm [0.59 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 11
PNT-AN-3H	\$;0t#?:	15mm [0.59 in]	Flush	N.O.	NPN	M12 [12mm] connector	Diagram 1	Figure 12
PNT-AN-4A	\$;;0t#,:	22mm [0.87 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 11
PNT-AP-3A	\$;;0t!1:	15mm [0.59 in]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 11
PNT-AP-3H	\$;;0t!2:	15mm [0.59 in]	Flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 12
PNT-AP-4A	\$;;0t!3:	22mm [0.87 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 11
PNT-AP-4H	\$;;0t!4:	22mm [0.87 in]	Non-flush	N.O.	PNP	M12 [12mm] connector	Diagram 2	Figure 12
PNT-CN-3A	\$;;0t!5:	15mm [0.59 in]	Flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 3	Figure 11
PNT-CN-3H	\$;;0t!6:	15mm [0.59 in]	Flush	N.C.	NPN	M12 [12mm] connector	Diagram 3	Figure 12
PNT-CP-3H	\$;;0t!a:	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: I	orass			
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.

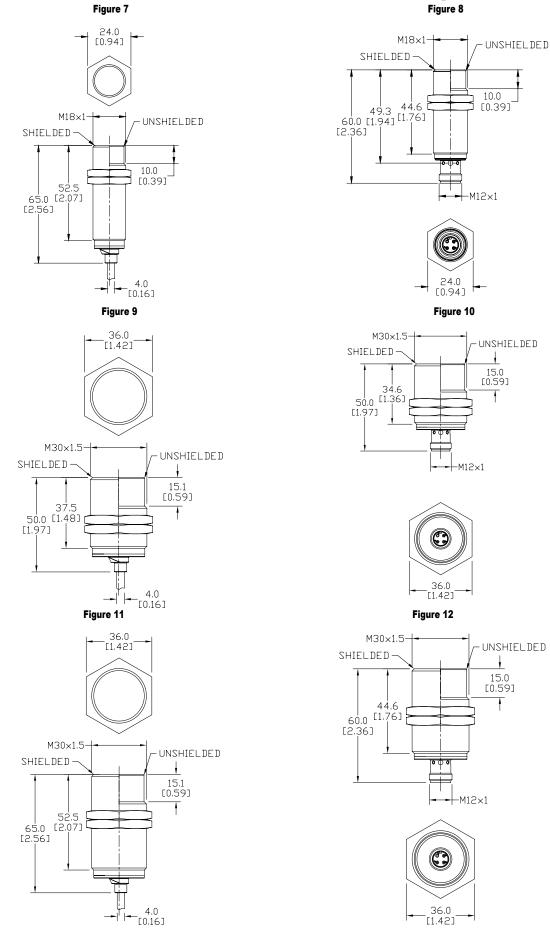
Wiring diagrams



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

For the latest prices, please check AutomationDirect.com.

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



Accessories for 30mm Sensors

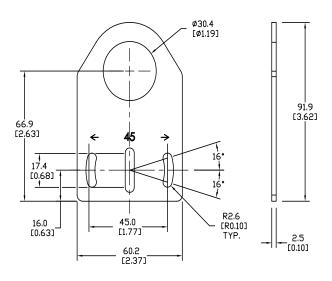
Axial Mounting Bracket

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>	\$983:	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

Dimensions

mm [inches]

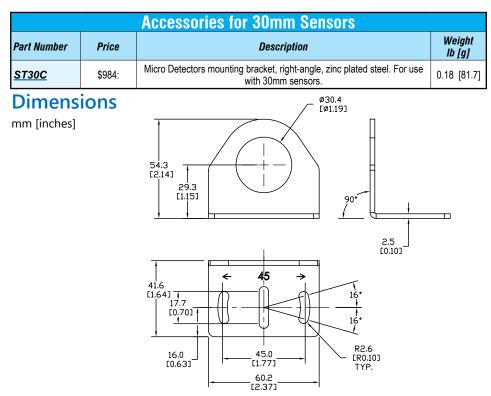




<u>ST30A</u>

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.





ST30C

Accessories for 30mm Sensors

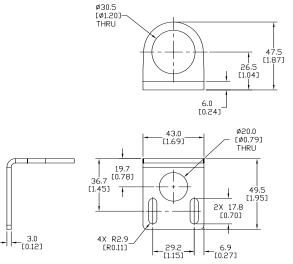
Right-angle Mounting Bracket

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

Accessories for FW Series Sensors						
Part Number	Part Number Price Description					
<u>ST30C6W</u>	\$-5i1:	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>	\$-1nl?:	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>	\$;-1nl,:	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>	\$1nn9:	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$1nna:	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$1nnb:	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>	\$-1nly:	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]			

