1-800-633-0405

# Sense PxW2 Series Metal Face Inductive Proximity Sensors



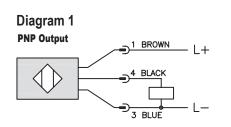
#### 316L Stainless Steel – DC

- 8mm, 12mm, 18mm, 30mm
- Complete overload protection
- IP65, IP66, IP67, IP68, IP69K rated
- Lock nuts included
- 316L Stainless Steel body
- Metal sensing face provides durable protection
- LED Status indicator
- Lifetime warranty



PxW2 Series Metal Face Inductive Proximity Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Drawing Link	
M8 Proximity Sensors									
PEW2-AP-3F	\$33.50	3mm [0.118 in]	Semi-flush	N.O.	PNP	3-pin M8 quick-disconnect	Diagram 1	PDF	
PEW2-AP-4F	\$33.50	5mm [0.20 in]	Non-flush	N.O.	PNP	3-pin M8 quick-disconnect	Diagram 1	PDF	
M12 Proximity Sensors									
PMW2-AP-3H	\$34.00	4mm {0.157 in}	Flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	
<u>PMW2-AP-4H</u>	\$34.00	6mm [0.236 in]	Non-flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	
M18 Proximity Sensors									
PKW2-AP-3H	\$36.00	8mm [0.31 in]	Flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	
<u> PKW2-AP-4H</u>	\$36.00	12mm [0.47 in]	Non-Flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	
M30 Proximity Sensors									
<u>PTW2-AP-3H</u>	\$44.50	15mm [0.59 in]	Flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	
PTW2-AP-4H	\$44.50	25mm [0.084 in]	Non-flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF	

# Wiring Diagrams



Connectors M8 connector



M12 connector



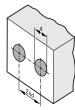
Warning: These products are not safety sensors and are not suitable for use in personal safety applications.

# Provinces PxW2 Series Metal Face Inductive Proximity Specifications

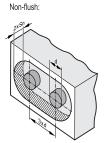
Рх	W2 Series	s Metal Fa	ce Inducti	ve Proxim	ity Specif	ications		
Sensor	PEW2-AP-3F	PEW2-AP-4F	PMW2-AP-3H	PMW2-AP-4H	PKW2-AP-3H	PKW2-AP-4H	PTW2-AP-3H	PTW2-AP-4H
Mounting Type	Semi-flush	Non-flush	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
Sensing Range	3mm	5mm	4mm	6mm	8mm	12mm	15mm	25mm
Real Sensing Range (Sr)	3 ± 10%	5 ± 10%	4 ± 10%	6 ± 10%	8 ± 10%	12 ± 10%	15 ± 10%	25 ± 10%
Material Correction Factors	See Material Influence Table							
Output Type	PNP N.O.							
Operating Voltage		10-30 VDC						
No-load Supply Current	≤ 20 mA							
Operating (Load) Current	≤ 100 mA							
Off-state (Leakage) Current	≤ 0.1 mA							
Voltage Drop	2.5 V							
Switching Frequency	250Hz	500Hz	100Hz	250Hz	100Hz	250Hz	50Hz	100Hz
Hysteresis (% of Sr)	3 to 15							
Switch-point Drift (% of Sr)				-10	to 10			
Pressure Rating (bar)	50 [725.19 psi] 100 [1450 psi]							
Protection Class					II			
Reverse Polarity Protection	Yes							
Short-Circuit Protection	Yes							
Operating Temperature (UL)	-25 to +85°C [	-13 to +185°F]	-25 to +70°C [-13 to 158°F]	0 to +70°C [35 to 158°F]	-25 to +70°C [-13 to 158°F]	0 to +70°C [35 to 158°F]	-25 to +70°C [-13 to 158°F]	0 to +70°C [35 to 158°F]
Protection Degree (DIN 40050)	IP65, IP66, IP67, IP68, IP69K (With IP69K Cable)							
Indication/Switch Status	Yellow LED, Switching Status, 4 x 90°							
Housing Material	316L Stainless Steel							
Sensing Face Material	316L Stainless Steel							
Shock/Vibration	Shock EN 60068-2-27, Vibration EN 60068-2-6							
Tightening Torque	5 N•m 15 N•m 50 N•m 80 N•m					l•m		
Weight	15.8 g [0.56 oz]	15.3 g [0.54 oz]	25.8 g [0.91 oz]	23.9 g [0.84 oz]	44g [1.55 oz]	38.6 g [1.36 oz]	115g [4.05 oz]	106.8 g [3.77 oz]
Connection	3-pin M8 quick-disconnect 4-pin M12 quick-disconnect							
IO-Link	NA							
Agency Approvals	CE, cULus E328811							

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





Flush:



Minimum clearance for installing units of the same type (side-by-side installation). Applies to cylindrical and rectangular sensors.

The minimum distance between units may only be disregarded for units with different oscillator frequencies or different sensing principles.

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

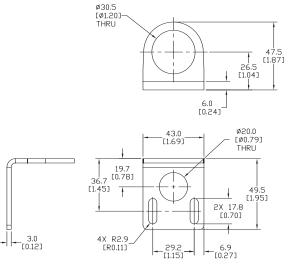
### **Right-angle Mounting Bracket**

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