For the latest prices, please check AutomationDirect.com.

pro**ense**®

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

NEED CABLES?

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
PMW2-AP-4H	$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
PKW2-AP-4H	$36.00	12mm [0.47 in]	Non-Flush	N.O.	PNP	4-pin M12 quick-disconnect	Diagram 1	PDF
M30 Proximity Sensors								
PTW2-AP-3H	$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

Diagram 1

PNP Output

1 BROWN — L+
4 BLACK
3 BLUE — L−
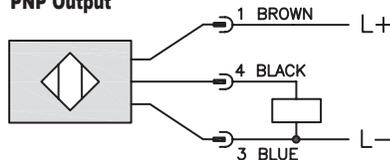
Connectors
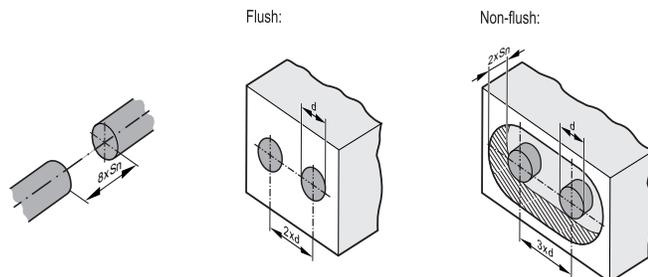
M8 connector
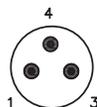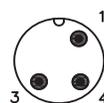
4
1   3

M12 connector

1
3   4

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

PxW2 Series Metal Face Inductive Proximity Specifications

PxW2 Series Metal Face Inductive Proximity Specifications								
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	III							
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	
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:

Non-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.

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

Proximity Sensors   tSEN-343

Accessories for 8mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
ST08A	$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	PDF	0.04

ST08A

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
ST08C	$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04

ST08C

Accessories for 8mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 8mm sensors.

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
OPT2101	$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	PDF	0.02

OPT2101

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment. For use with 8mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.

Accessories for 8mm Sensors						
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight [lb]
OPT2112	$11.50	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	PDF	0.14
OPT2113	$21.00	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	PDF	0.26

Note: 304 Stainless steel mounting rods sold separately: **OPT2109** (200mm length), **OPT2110** (300mm length), and **OPT2111** (500mm length).

OPT2112 & OPT2113