1-800-633-0405

### Sense<sup>®</sup> PxW2 Series Metal Face Inductive Proximity Sensors



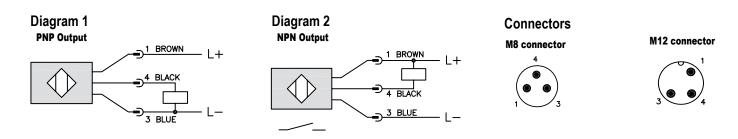
#### 316L Stainless Steel – DC

- 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



		Metal Fa	ace Induci	tive Proxi	mity Ser	isors P	xW2 S	eries Sel	ection (	Chart		
Part Number	Price	Sensing Range	Real Sensing Range (Sr)	Mounting	Switching Frequency	Output State	Logic	Connection	Wiring	Operating Temperature (UL)	Weight g [oz]	Drawing Link
M8 Proximity Sen	sors						ù.					
PEW2-AP-3F	\$4z7b:	3mm	2 . 400/	Semi-flush	050 11-	N.O.	PNP		Diagram 1		15.8	PDF
PEW2-AN-3F	\$6k1z:	[0.12in]	3 ± 10%	Semi-flush	250 Hz	N.O.	NPN	3-pin M8	Diagram 2	-25 to 85°C	[0.56]	PDF
PEW2-AP-4F	\$4z7d:	5mm	E . 100/	Non-flush	500 LI-	N.O.	PNP	quick- disconnect Dia	Diagram 1	[-13 to 185°F]	15.3	PDF
PEW2-AN-4F	\$;6k1]:	[0.20in]	5 ± 10%	Non-flush	500 Hz	N.O.	NPN	dicconnoct	Diagram 2		[0.54]	PDF
M12 Proximity Se	nsors											
<u>PMW2-AP-3H</u>	\$4z75:	4mm [0.16in]	4 ± 10%	Flush	100 Hz	N.O.	PNP	4-pin M12	Diagram 1	-25 to 70°C [-13 to 158°F]	25.8 [0.91]	PDF
<u>PMW2-AP-4H</u>	\$4z76:	6mm [0.24in]	6 ± 10%	Non-flush	250 Hz	N.O.	PNP	quick- disconnect	Diagram 1	0 to 70°C [32 to 158°F]	23.9 [0.84]	PDF
M18 Proximity Se	nsors											
<u>PKW2-AP-3H</u>	\$4z77:	8mm [0.31in]	8 ± 10%	Flush	100 Hz	N.O.	PNP	4-pin M12	Diagram 1	-25 to 70°C [-13 to 158°F]	44 [1.55]	PDF
<u>PKW2-AP-4H</u>	\$4z78:	12mm [0.47in]	12 ± 10%	Non-flush	250 Hz	N.O.	PNP	quick- disconnect	Diagram 1	0 to 70°C [32 to 158°F]	38.6 [1.36]	PDF
M30 Proximity Se	nsors											
<u>PTW2-AP-3H</u>	\$4z7e:	15mm [0.59in]	15 ± 10%	Flush	50 Hz	N.O.	PNP	4-pin M12	Diagram 1	-25 to 70°C [-13 to 158°F]	115 [4.05]	PDF
<u>PTW2-AP-4H</u>	\$;4z7f:	25mm [0.98in]	25 ± 10%	Non-flush	100 Hz	N.O.	PNP	quick- disconnect	Diagram 1	0 to 70°C [32 to 158°F]	106.8 [3.77]	<u>PDF</u>

#### Wiring Diagrams



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

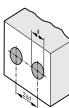
### PxW2 Series Metal Face Inductive Proximity Specifications

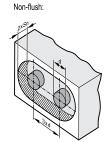
Metal Face Ir	nductive Proximity	Sensors PxW2 Se	ries Specifications			
Sensor	PEW2	PMW2	PKW2	PTW2		
Output Type	NPN, N.O.					
Operating Voltage		10-30 VDC				
No-load Supply Current		≤2	10 mA			
Operating (Load) Current		≤1(	00 mA			
Off-state (Leakage) Current		≤ 0	.1 mA			
Voltage Drop		2	.5V			
Hysteresis (% of Sr)		3	io 15			
Switch-point Drift (% of Sr)		-10	to 10			
Pressure Rating (bar)	50 [725.19 psi]	50 [725.19 psi] 100 [1450 psi]				
Protection Class	II					
Reverse Polarity Protection		,	/es			
Short-Circuit Protection		,	/es			
Protection Degree (DIN 40050)		IP65, IP66, IP67, IP68,	IP69K (With IP69K Cable)			
Indication/Switch Status		Yellow LED, swite	hing status, 4 x 90°			
Housing Material	316L stainless steel					
Sensing Face Material	316L stainless steel					
Material Correction Factors	See Material Influence Table					
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		
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 Compliance & Certifications 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.

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

### Accessories for 12mm Sensors

#### **Axial Mounting Bracket**

Mounting bracket, axial, available in zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-angle adapter sensors. Hexagonal nuts not included.

Accessories for 12mm Sensors							
Part Number	Price	Description	Drawing Link	Weight Ib [g]			
<u>ST12A</u>	\$97_:	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 12mm sensors.	PDF	0.03 [13.6]			
<u>ST12A7W</u>	\$97#:	Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 12mm sensors.	PDF	0.03 [13.6]			



<u>ST12A</u>

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

Mounting bracket, right-angle, zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal screws not included.

Accessories for 12mm Sensors							
Part Number	Drawing Link	Weight Ib [g]					
<u>ST12C</u>	\$;97!:	5;97I: Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 12mm sensors.		0.03 [13.6]			
<u>ST12C7W</u>	\$97?:	Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with 12mm sensors.	<u>PDF</u>	0.03 [13.6]			



<u>ST12C</u>

# Accessories for 12mm Sensors

#### **Right-angle Fine Tune Mounting Bracket**

Mounting bracket, right-angle, fine tune vertical and horizontal adjustment, nickel-plated steel. For use with 12mm sensors. Enables fine tuning vertical and horizontal placement.

Accessories for 12mm Sensors							
Part Number	Drawing Link	Weight [lb]					
<u>OPT2035</u>	\$1nlj:	Wenglor mounting bracket, right-angle, fine tune vertical and horizontal adjustment, nickel plated steel. For use with 12mm sensors.	<u>PDF</u>	0.16			



OPT2035

## Accessories for 12mm Sensors

#### **Right-angle Mounting Brackets**

Mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors. Available with or without fixed insertion stop.

	Accessories for 12mm Sensors								
Part Number	Price	Description	Drawing Link	Weight Ib [g]					
<u>OPT2102</u>	\$-1nlq:	Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors.	PDF	0.05 [22.7]					
<u>OPT2103</u>	\$-1nls:	Wenglor mounting bracket, right-angle, plastic. For use with 12mm sensors.	<u>PDF</u>	0.05 [22.7]					



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

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

	Accessories for 12mm Sensors										
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]					
<u>OPT2114</u>	\$;-1nl[:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 12mm sensors.	Aluminum	Stainless steel	<u>PDF</u>	0.14 [63.5]					
<u>OPT2115</u>	\$-1nl_:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 12mm sensors.	304 Stainless steel	304 Stainless steel	<u>PDF</u>	0.27 [122.5]					



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).

OPT2114, OPT2115