1-800-633-0405

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



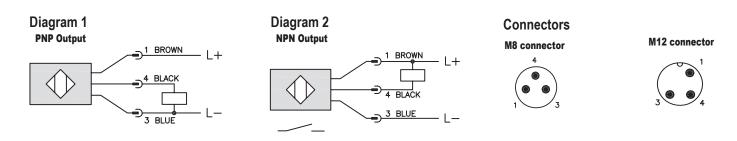
### 316L Stainless Steel – DC

- 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 Induct	ive 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						ý.					
PEW2-AP-3F	\$33.50	3mm	2 . 100/	Semi-flush	050 11-	N.O.	PNP		Diagram 1		15.8	PDF
PEW2-AN-3F	\$32.00	[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	\$33.50	5mm	E . 100/	Non-flush	500 Hz	N.O.	PNP	quick- disconnect	Diagram 1	[-13 to 185°F]	15.3	PDF
PEW2-AN-4F	\$32.00	[0.20in]	5 ± 10%	Non-flush		N.O.	NPN		Diagram 2		[0.54]	PDF
M12 Proximity Se	nsors											
<u>PMW2-AP-3H</u>	\$34.00	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>	\$34.00	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>	\$36.00	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>	\$36.00	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>	\$44.50	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>	\$44.50	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]	PDF

# Wiring Diagrams



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

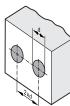
# Provinces Provin

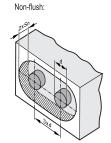
Metal Face Ir	nductive Proximity	Sensors PxW2 Se	ries Specifications		
Sensor	PEW2	PMW2	PKW2	PTW2	
Output Type	PNP or NPN, N.O.				
Operating Voltage		10-30 VDC			
No-load Supply Current		≤ 2	0 mA		
Operating (Load) Current		≤10	0 mA		
Off-state (Leakage) Current		≤ 0.	.1 mA		
Voltage Drop		2	.5V		
Hysteresis (% of Sr)		3 t	o 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				
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				
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	Igency 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 18mm Sensors

# **Axial Mounting Bracket**

Axial mounting bracket available in zinc plated steel or 316L stainless steel. Has two mounting holes (use 4mm screws) and allows for rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included. For use with 18mm sensors.

Accessories for 18mm Sensors					
Part Number	Price	Description	Weight Ib [g]		
<u>ST18A</u>	\$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 18mm sensors.	0.06 [27.2]		
<u>ST18A7W</u>	\$7.25	Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 18mm sensors.	0.06 [27.2]		



<u>ST18A</u>

# Dimensions

mm [inches]



# **Right-angle Mounting Bracket**

Right-angle mounting bracket for use with 18mm sensors. Has two mounting holes (use 4mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

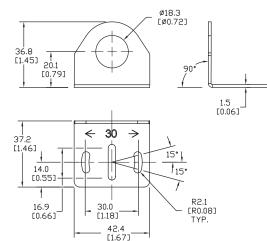
	Accessories for 18mm Sensors						
Part Number	Price	Description	Weight Ib [g]				
<u>ST18C</u>	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 18mm sensors.	0.06 [27.2]				
<u>ST18C7W</u>	\$7.25	Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with 18mm sensors.	0.06 [27.2]				



<u>ST18C</u>

# Dimensions

mm [inches]



# Accessories for 18mm Sensors

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

Mounting bracket, right-angle, fine tune vertical and horizontal adjustment, nickelplated steel. For use with 18mm sensors. Allows for fine tuning vertical and horizontal placement.

Accessories for 18mm Sensors						
Part Number	Price	Description	Drawing Link	Weight [lb]		
<u>OPT2036</u>	\$38.50	Wenglor mounting bracket, right-angle, fine tune vertical and horizontal adjustment, nickel plated steel. For use with 18mm sensors.	<u>PDF</u>	0.02		



OPT2036

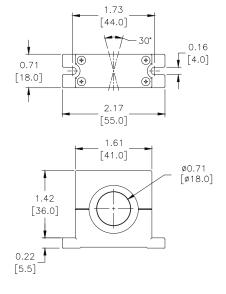
## **Swivel Mounting Bracket**

Mounting bracket, ball swivel, plastic. For use with 18mm sensors. Has a ball-joint and set screws to adjust sensor orientation. Allows angular orientation up to 15 degrees (from center) in all directions for photoelectric sensors (Will not work with C18 series).

Accessories for 18mm Sensors					
Part Number	Price	Description	Weight [lb]		
<u>ST02</u>	\$9.50	Micro Detectors mounting bracket, ball swivel, plastic. For use with 18mm sensors.	0.06		

## Dimensions

mm [inches]







# Accessories for 18mm Sensors

# **Right-angle Mounting Brackets**

Mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 18mm sensors. Available with or without fixed insertion stop.

	Accessories for 18mm Sensors							
Part Number	Part Number Price Description							
<u>OPT2104</u>	\$10.50	Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 18mm sensors.	<u>PDF</u>	0.06 [27.2]				
<u>OPT2105</u>	\$10.50	Wenglor mounting bracket, right-angle, plastic. For use with 18mm sensors.	<u>PDF</u>	0.06 [27.2]				



<u>OPT2104, OPT2105</u>

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

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 18mm sensors. Available in all 304 stainless steel or with an aluminum head and a stainless steel mounting plate.

Accessories for 18mm Sensors								
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]		
<u>OPT2116</u>	\$11.50	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 18mm sensors.	Aluminum	304 Stainless steel	<u>PDF</u>	0.15 [68.0]		
<u>OPT2117</u>	\$21.00	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 18mm sensors.	304 Stainless steel	304 Stainless steel	<u>PDF</u>	0.28 [127.0]		



OPT2116, OPT2117

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).