PFT Series IP69K-rated Proximity Sensors



PFT1-AP-3H PFT1-AP-4H

30 mm stainless steel - DC

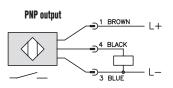
- 4 models available: PFT1 series – short-body length, PFT2 series – regular body length
- 30 mm diameter
- 316L stainless steel housing
- M12 quick-disconnect plug with gold-plated pins (purchase cable separately)
- Complete overload protection
- IP69K rated for food and beverage applications
- M30 mounting hex nuts included
- Lifetime warranty



PFT Series Food and Beverage DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
PFT1-AP-3H		0 to 14 mm (0 to 0.551 in)	Flush	N.O	PNP	M12 (12mm) connector	Diagram 1	Figure 1
PFT2-AP-3H		0 to 15 mm (0 to 0.590 in)			PNP	M12 (12mm) connector	Diagram 1	Figure 2
PFT1-AP-4H		. 0 to 22 mm (0 to 0.866 in)	Non-flush	N.O.	PNP	M12 (12mm) connector	Diagram 1	Figure 1
PFT2-AP-4H					PNP	M12 (12mm) connector	Diagram 1	Figure 2

Wiring diagram

Diagram 1



Note: Class 2 power supply required

Connector

M12 connector



PFT Series IP69K-rated Proximity Sensors

PFT Series Specifications							
Mounting Type	Flu	ısh	Non-	-flush			
	PFT1	PFT2	PFT1	PFT2			
Nominal Sensing Distance	14mm (0.551 in)	15mm (0.590 in)	22mm (0.866 in)				
Operating Distance		Ν	NA				
Material Correction Factors		See the Materia	l influence table				
Output Type		PNP, N	.O. only				
Operating Voltage		10 - 3	6 VDC				
No-load Supply Current		≤1	0mA				
Operating (Load) Current		≤ 10	00mA				
Off-state (Leakage) Current	(Leakage) Current NA						
Voltage Drop	≤ 2.5 V						
Switching Frequency	50	Hz	10	OHz			
Differential Travel (% of Nominal Distance)	3 - 15%						
Repeat Accuracy	10%						
Ripple	NA						
Time Delay Before Availability (tv)		30	ms				
Reverse Polarity Protection		Yi	es				
Short-Circuit Protection		Yes (switch auto-resets a	fter overload is removed)				
Operating Temperature		0° to 100°C (32° to 212°F)				
Protection Degree (DIN 40050)		IEC IP68	3, IP69K				
Indication/Switch Status		Normally Open outp	ut energized - Yellow				
Housing Material		316 L stai	nless steel				
Sensing Face Material	PEEK (Polyether Ether Ketone)						
Shock/Vibration	See Proximity Sensor Terminology						
Tightening Torque	80 Nm (59 lb-ft)						
Weight	ight 110g (3.88 oz) 130g (4.58 oz) 107g (3.77 oz) 124g (4.						
Connection	M12 plug with gold-plated pins						
Agency Approvals		UL file E328811,	CE ECOLAB, RoHS				

Dimensions

mm [inches]

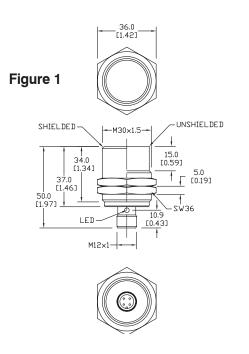
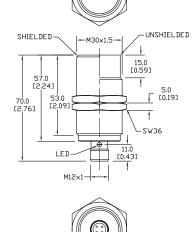


Figure 2



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Accessories for 30mm Sensors

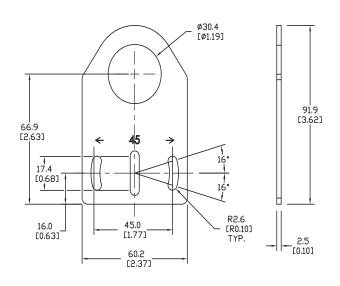
Axial Mounting Bracket

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>		Mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 (81.7)		

Dimensions

mm [inches]

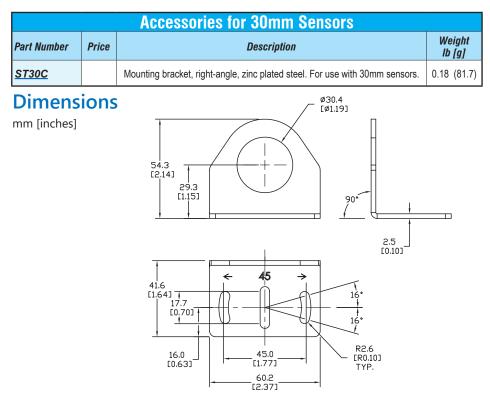




ST30A

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.





Accessories for 30mm Sensors

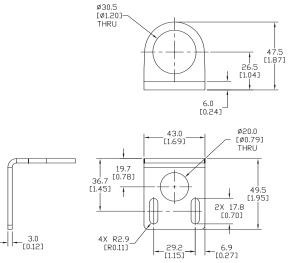
Right-angle Mounting Bracket

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

	Accessories for FW Series Sensors					
Part Number	Part Number Price Description		Weight Ib [g]			
<u>ST30C6W</u>		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>		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>		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: OPT2109 (200mm [7.87 in] length), OPT2110 (300mm [11.81 in] length), and OPT2111 (500mm [19.69 in] length).

OPT2118, OPT2119

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets OPT2112 - OPT2127. Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Part Number Price Description			Weight Ib (g)			
<u>OPT2109</u>		Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 (185.97)			
<u>OPT2110</u>		Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 (272.16)			
<u>OPT2111</u>		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 OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors							
Part Number	Part Number Price Description		Drawing Link	Weight Ib (g)			
<u>OPT2108</u>		Wenglor mounting bracket, right-angle, nickel plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 (31.8)			

