# 1-800-633-0405 **PFT Series IP69K-rated Proximity Sensors**



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

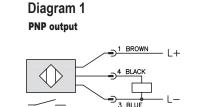
## 30 mm Stainless Steel - DC

- 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 Proximity Selection Chart								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<u>PFT1-AP-3H</u>	\$55.00	0 to 14 mm [0 to 0.551 in]	Flush	N.O.	PNP	M12 [12mm] connector	Diagram 1	Figure 1
PFT2-AP-3H	Retired	0 to 15 mm [0 to 0.590 in]			PNP	M12 [12mm] connector	Diagram 1	Figure 2
<u>PFT1-AP-4H</u>	Retired	0 to 22 mm [0 to 0.866 in]	Non-flush	N.O.	PNP	M12 [12mm] connector	Diagram 1	Figure 1
PFT2-AP-4H	\$55.00				PNP	M12 [12mm] connector	Diagram 1	Figure 2

## Wiring Diagram



#### Connector M12 connector



Note: Class 2 power supply required

#### For the latest prices, please check AutomationDirect.com.

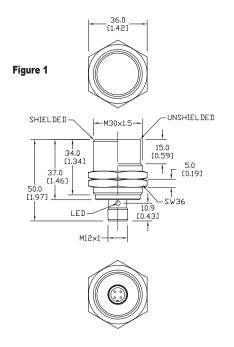
# 1-800-633-0405 PFT Series IP69K-rated Proximity Sensors

PFT Series Food and Beverage DC Inductive Proximity Specifications							
Mounting Type	Flush Non-flush						
Series	PFT1	PFT2	PFT1	PFT2			
Nominal Sensing Distance	14mm [0.551 in]	15mm [0.590 in]	22mm [0.866 in]				
Operating Distance		Ν	A				
Material Correction Factors		See the Materia	l influence table				
Output Type		PNP, N	O. only				
Operating Voltage		10 - 36	S VDC				
No-load Supply Current		≤ 10	)mA				
Operating (Load) Current	≤ 100mA						
Off-state (Leakage) Current	NA						
Voltage Drop		≤ 2	2.5 V				
Switching Frequency	50	Hz	100Hz				
Differential Travel (% of Nominal Distance)	3 - 15%						
Repeat Accuracy	10%						
Ripple	NA						
Time Delay Before Availability (tv)	30ms						
Reverse Polarity Protection	Yes						
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)						
Operating Temperature		0 to 100°C [	32 to 212°F]				
Protection Degree (DIN 40050)		IEC IP68	8, IP69K				
Indication/Switch Status	Normally Open output energized - Yellow						
Housing Material		316 L stair	nless steel				
Sensing Face Material	PEEK (Polyether Ether Ketone)						
Shock/Vibration	See Proximity Sensor Terminology						
Tightening Torque	80 Nm [59 lb-ft]						
Weight	110g [3.88 oz]	130g [4.58 oz]	107g [3.77 oz]	124g [4.37 oz]			
Connection		M12 plug with g	old-plated pins				
Agency Approvals		UL file E328811, C	E ECOLAB, RoHS				

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

## **Dimensions**

mm [inches]



36.0 [1.42] Figure 2 UNSHIELDED SHIELDED -M30×1.5 ł 15.0 [0.59] 57.0 [2,24] 5.0 [0.19] 53.0 [2,09] 70.0 [2,76] SM36 11.0 [0.43] LED-M12×1

# Accessories for 30mm Sensors

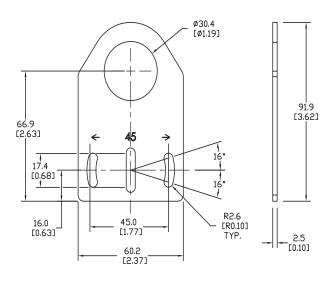
## **Axial Mounting Bracket**

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>	\$2.25	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

#### **Dimensions**

mm [inches]

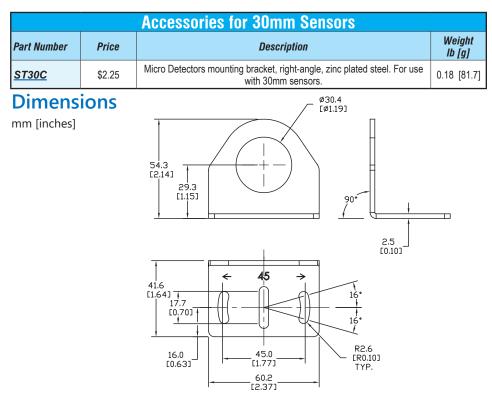




<u>ST30A</u>

## **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.





<u>ST30C</u>

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

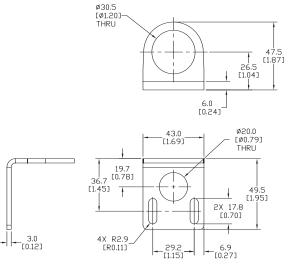
## **Right-angle Mounting Bracket**

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

Accessories for FW Series Sensors						
Part Number	ort Number Price Description					
<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

# 1-800-633-0405 Mounting Rods and Brackets

### **Mounting Rods**

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

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	Weight Ib (g)				
<u>OPT2109</u>	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$21.00	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 <u>OPT2109</u>, <u>OPT2110</u> & <u>OPT2111</u>.

Right-angle Mounting Brackets for 12mm Sensors							
Part Number Price Description		Drawing Link	Weight Ib [g]				
<u>OPT2108</u>	\$16.00	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]			

