

# VFT Series IP69K-rated Proximity Sensors



**VFT1-A0-1M**  
**VFT1-A0-2M**

## 30 mm stainless steel - AC

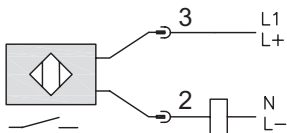
- 2 models available
- 30 mm diameter
- 316L stainless steel housing
- 1/2" micro AC quick-disconnect plug with gold-plated pins (purchase cable separately)
- Complete overload protection
- IP69K rated for food and beverage applications
- M30 mounting hex nuts included
- Lifetime warranty



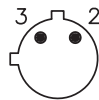
VFT Series Food and Beverage AC Inductive Prox Selection Chart							
Part Number	Price	Sensing Range	Mounting	Output State	Connection	Wiring	Dimensions
VFT1-A0-1M	\$63.00	0 to 14 mm (0 to 0.551 in)	Flush	N.O.	1/2" micro AC quick-disconnect plug	Diagram 1	Figure 1
VFT1-A0-2M	\$63.00	0 to 22 mm (0 to 0.866 in)	Non-flush		1/2" micro AC quick-disconnect plug	Diagram 1	Figure 1

## Wiring diagram

**Diagram 1**



**Connector**



*NOTE: CLASS 2 POWER SUPPLY REQUIRED*

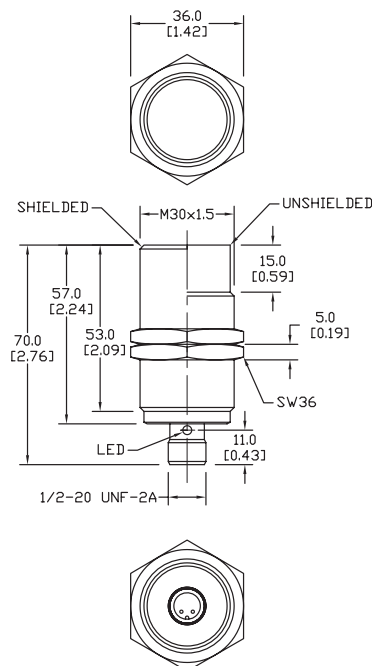
# VFT Series IP69K-rated Proximity Sensors

VFT Series Specifications		
<b>Mounting Type</b>	Flush	Non-flush
<b>Nominal Sensing Distance</b>	0 to 14 mm (0 to 0.551 in)	0 to 22 mm (0 to 0.866 in)
<b>Operating Distance</b>	NA	NA
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>	
<b>Output Type</b>	N.O. only	
<b>Operating Voltage</b>	20 to 140 VAC/VDC	
<b>No-load Supply Current</b>	NA	
<b>Operating (Load) Current</b>	5 - 200 mA	
<b>Off-state (Leakage) Current</b>	< 1 mA	
<b>Voltage Drop</b>	< 5.5 V	
<b>Switching Frequency</b>	25Hz VAC/100Hz VDC	
<b>Differential Travel (% of Nominal Distance)</b>	2 - 15%	3 - 15%
<b>Repeat Accuracy</b>	10%	
<b>Ripple</b>	NA	
<b>Time Delay Before Availability (tv)</b>	1 s	
<b>Reverse Polarity Protection</b>	yes	
<b>Short-Circuit Protection</b>	yes (non latching)	
<b>Operating Temperature</b>	0° to 100°C (32° to 212°F)	
<b>Protection Degree (DIN 40050)</b>	IEC IP68/IP69K, II	
<b>Indication/Switch Status</b>	Normally Open output energized - Yellow	
<b>Housing Material</b>	316L stainless steel	
<b>Sensing Face Material</b>	PEEK (Polyether Ether Ketone)	
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a>	
<b>Tightening Torque</b>	80 Nm (59 lb-ft)	
<b>Weight</b>	149g (5.25 oz)	142g (5.01 oz)
<b>Connection</b>	1/2" micro AC connector	
<b>Agency Approvals</b>	UL E328811, CE, ECOLAB, RoHS	

## Dimensions

mm [inches]

Figure 1





# Accessories for 30mm Sensors

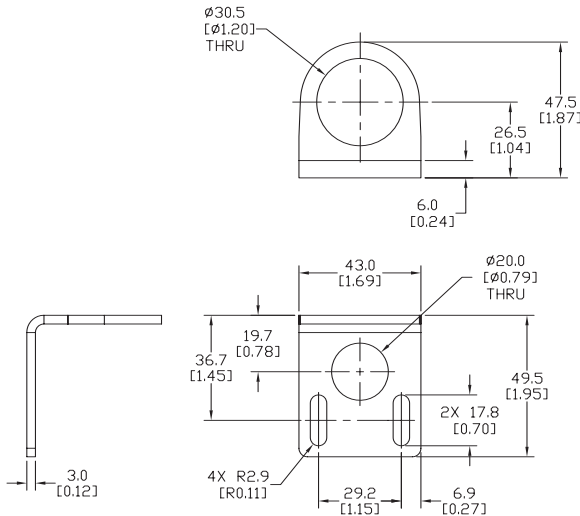
## Right-angle Mounting Bracket

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

Accessories for FW Series Sensors			
Part Number	Price	Description	Weight
<b>ST30C6W</b>	\$3.50	Mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.	0.15 lb (68.0 g)

### 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
<b>OPT2118</b>	\$10.50	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	<a href="#">PDF</a>	0.18 lb (81.7 g)
<b>OPT2119</b>	\$18.50	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	<a href="#">PDF</a>	0.18 lb (81.7 g)

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).



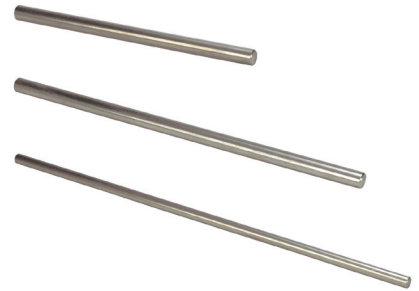
**OPT2118, OPT2119**

# 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	Price	Description	Drawing Link	Weight lb (g)
<b>OPT2109</b>	\$11.50	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	<a href="#">PDF</a>	0.41 (185.97)
<b>OPT2110</b>	\$14.50	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	<a href="#">PDF</a>	0.60 (272.16)
<b>OPT2111</b>	\$18.50	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	<a href="#">PDF</a>	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	Price	Description	Drawing Link	Weight lb (g)
<b>OPT2108</b>	\$14.50	Wenglor mounting bracket, right-angle, nickel plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<a href="#">PDF</a>	0.07 (31.8)

