# VFT Series IP69K-rated Proximity Sensors



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

### 30mm Stainless Steel - AC

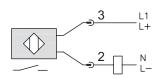
- 30mm diameter
- 316L stainless steel housing
- 1/2" micro AC quick-disconnect plug with gold-plated pins (purchase cable separately)
- Complete overload protection
- IP69K rated for food and beverage applications
- M30 mounting hex nuts included
- · Lifetime warranty



VFT Series Food and Beverage AC Inductive Proximity Selection Chart							
Part Number	Price	Sensing Range	Mounting	Output State	Connection	Wiring	Dimensions
<u>VFT1-A0-1M</u>	\$71.00	0 to 14 mm [0 to 0.551 in]	Flush	NO	1/2" micro AC quick-disconnect plug Diagr	Diagram 1	Figure 1
<u>VFT1-A0-2M</u>	\$71.00	0 to 22 mm [0 to 0.866 in]	Non-flush	N.O.	1/2" micro AC quick-disconnect plug	Diagram 1	Figure 1

# **Wiring Diagram**

#### Diagram 1



Note: Class 2 power supply required

#### Connector



# VFT Series IP69K-rated Proximity Sensors

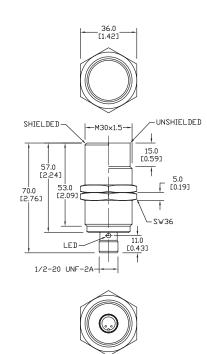
VFT Series Food and Beverage AC Inductive Proximity Specifications						
Mounting Type	Flush	Non-flush				
Nominal Sensing Distance	0 to 14 mm [0 to 0.551 in]	0 to 22 mm [0 to 0.866 in]				
Operating Distance	NA	NA				
Material Correction Factors	See the Materia	l influence table				
Output Type	N.O.	only				
Operating Voltage	20 to 140	VAC/VDC				
No-load Supply Current	N.	A				
Operating (Load) Current	5 - 20	00mA				
Off-state (Leakage) Current	< 1	mA				
Voltage Drop	< 5.5 V					
Switching Frequency	25Hz VAC/1	VAC/100Hz VDC				
Differential Travel (% of Nominal Distance)	2 - 15%	3 - 15%				
Repeat Accuracy	10	10%				
Ripple	N.	NA				
Time Delay Before Availability (tv)	1s					
Reverse Polarity Protection	yes					
Short-Circuit Protection	yes (non	latching)				
Operating Temperature	0 to 100°C [	32 to 212°F]				
Protection Degree (DIN 40050)	IEC IP68/	IP69K, II				
Indication/Switch Status	Normally Open outpu	ıt energized - Yellow				
Housing Material	316L stain	less steel				
Sensing Face Material	PEEK (Polyether Ether Ketone)					
Shock/Vibration	See Proximity Sensor Terminology					
Tightening Torque	80 Nm [59 lb-ft]					
Weight	149g [5.25 oz]	142g [5.01 oz]				
Connection	1/2" micro A	C connector				
Agency Approvals	UL E328811, CE,	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**

Figure 1

mm [inches]



# **Accessories for 30mm Sensors**

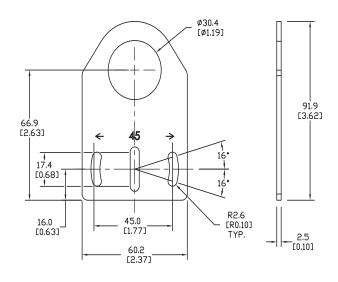
# **Axial Mounting Bracket**

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 lb [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]





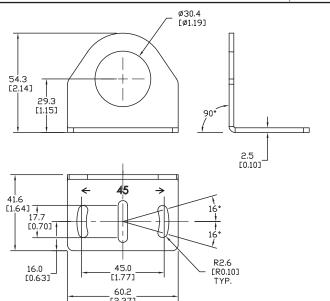
### **Right-angle Mounting Bracket**

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					
Part Number	Part Number Price Description		Weight lb [g]		
ST30C	\$2.25	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]		

#### **Dimensions**

mm [inches]



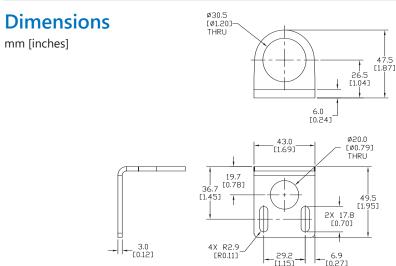


# **Accessories for 30mm Sensors**

### **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 lb [g]		
<u>ST30C6W</u>	\$5.50	AutomationDirect mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.	0.15 (68.0)		





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** 

# **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.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	Weight lb (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.	<u>PDF</u>	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 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]		



www.automationdirect.com Sensor A