1-800-633-0405 V Series AC & AC/DC Inductive Proximity **Sensors**

M30 (30mm)

- · Low cost/high performance
- LED status indicators are visible at a wide angle
- Axial cable and 1/2 in. micro AC quick-disconnect models
- Purchase cable separately (for quick-disconnect models)
- Lifetime warranty



V Series M30 AC & AC/DC Inductive Proximity Sensors Selection Chart								
Part Number	Price	Sensing Range ¹	Mounting	Output State	Voltage	Connection	Wiring	Dimensions
Standard								
<u>VT1-A0-1B</u>	\$45.00	10mm [0.394 in]	Flush	N.O.	20–253 VAC 2m [6.5 ft]		Diagram 2	Figure 1
<u>VT1-A0-2B</u>	\$45.00	15mm [0.590 in]	Non-flush	N.O.	20-253 VAC	axial cable	Diagram 2	Figure 1
Extended								
<u>V3T1-R0-3A8F</u>	\$48.00	12mm [0.472 in]	Flush	N.O. (VAC) or N.O./N.C. (VDC)		2m [6.5 ft] axial cable	Diagram 1	Figure 2
<u>V3T1-S0-3A8F</u>	\$48.00			N.C. (VAC) or N.O./N.C. (VDC)			Diagram 3	Figure 2
<u>V3T1-R0-3Q</u>	\$48.00			N.O. (VAC) or N.O./N.C. (VDC)		1/2"-20 UNF, micro AC	Diagram 4	Figure 3
<u>V3T1-S0-3Q</u>	\$48.00			N.C. (VAC) or N.O./N.C. (VDC)	20-250 VAC/	quick-disconnect	Diagram 5	Figure 3
<u>V3T1-R0-4A8F</u>	\$48.00	- 18mm [0.708 in]	Non-flush	N.O. (VAC) or N.O./N.C. (VDC)	VDC	2m [6.5 ft]	Diagram 1	Figure 2
<u>V3T1-S0-4A8F</u>	\$48.00			N.C. (VAC) or N.O./N.C. (VDC)		axial cable	Diagram 3	Figure 2
<u>V3T1-R0-4Q</u>	\$48.00			N.O. (VAC) or N.O./N.C. (VDC)			Diagram 4	Figure 3
<u>V3T1-S0-4Q</u>	\$48.00			N.C. (VAC) or N.O./N.C. (VDC)			Diagram 5	Figure 3

¹With 30mm x 30mm Fe360 target

Wiring Diagrams

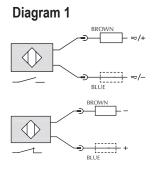
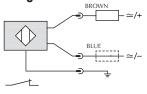
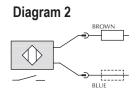


Diagram 3





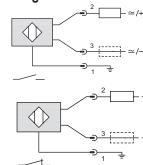
BROWN

BLUE

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Diagram 4



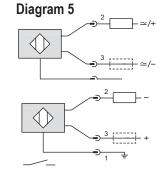
Connectors

M12 connector

1/2 in. micro AC



Note: Pin 2 is not present on some models.



For the latest prices, please check AutomationDirect.com.

1-800-633-0405 **V Series AC & AC/DC Inductive Proximity Sensors**

Specifications	VT1 N	lodels	V3T1 I	Nodels	
Mounting Type	Flush	Non-flush	Flush	Non-flush	
Nominal Sensing Distance (mm)	5	8	12	18	
Operating Distance	N	A	0–9.7 mm	0–14.6 mm	
Material Correction Factors		See Material I	nfluence Table		
Output Type	N.O. or N.C. (VAC) N.O./N.C. (VDC)				
Operating Voltage	20–253 VA	C, 50/60 Hz	20-250 VAC/VDC		
No-load Supply Current		N	Α		
Operating (Load) Current DC	N	A	200mA		
AC	5–300 m	A (RMS)	140)mA	
Off-state Leakage Current DC	N	A	0.70) mA	
AC	1.0 mA max. (RMS) 1mA		mA		
Voltage Drop	≤ 8.8 VAC ≤ 7.5 VAC / ≤ 8V		C/≤8VDC		
Switching Frequency	25Hz		250Hz 190Hz		
Differential Travel (% of Nominal Distance)	2–10%		1–20%		
Repeat Accuracy	5%		≤ 5%		
Peak Current	NA		600mA/150ms Max.		
Time Delay Before Availability (tv)	200ms		100ms		
Reverse Polarity Protection	NA		Yes		
Short Circuit Protection: Overload	No		Yes		
Overvoltage			Yes		
Operating Temperature	-25 to +70°C [-13 to 158°F]		-25 to +70°C [-13 to 158°F]		
Protection Degree (DIN 40050)	IEC IP67		IP67		
LED Indicators	Yellow (output energized)				
Housing Material	Nickel-plated brass				
Sensing Face Material	Polybutylene Terephthalate (PBT) PA4T			4T	
Shock/Vibration	IEC 60947-5-2				
Tightening Torque	25 N·m [18.44 lb·ft]		50 N·m [37 lb·ft]		
Weight	120g [4	l.23 oz]	120g Plug;	170g Cable	
Connection	2m [6.5 ft] axial cable		2m [6.5 ft] axial cable or 1/2"-20 UNF, micro AC quick-disconnect		
Agency Approvals	CE, UL R file E1		CE, UL E187310		



mm [inches]

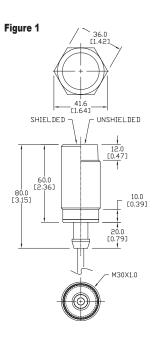
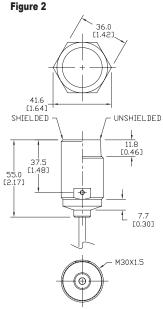
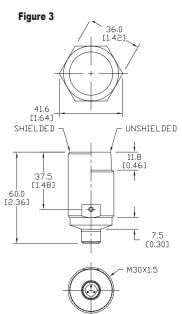


Figure 2



www.automationdirect.com



NOTE: Each sensor ships with jam nuts.

tSEN-361

Accessories for 30mm Sensors

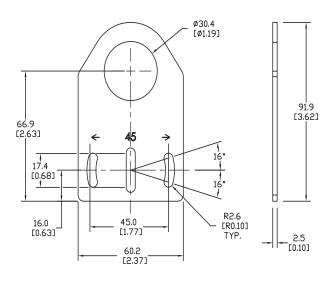
Axial Mounting Bracket

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]

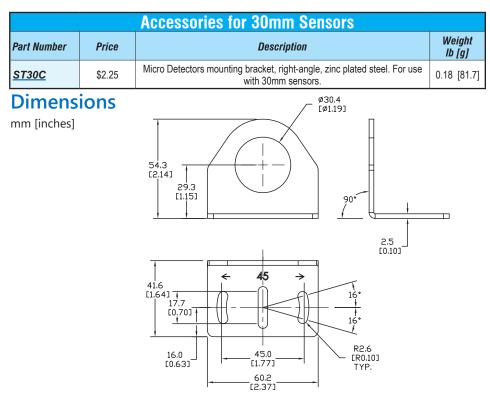




<u>ST30A</u>

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.





ST30C

Accessories for 30mm Sensors

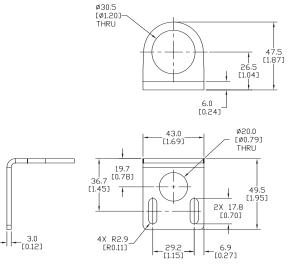
Right-angle Mounting Bracket

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

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