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



M8 (8mm)

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



V Series M8 AC/DC Inductive Proximity Selection Chart								
Part Number	Price	Sensing Range ¹	Mounting	Output State	Voltage	Connection	Wiring	Dimensions
<u>V3E1-R0-3A8F</u>	\$46.00	2mm [0.0787 in]	Flush	N.O.	20–120 VAC/VDC	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<u>V3E1-S0-3A8F</u>	\$46.00			N.C.			Diagram 2	
<u>V3E1-R0-3Q</u>	\$46.00			N.O. (VAC) or N.O./N.C. (VDC)	20–250	1/2"-20 UNF. micro AC	Diagram 3	Figure 2
<u>V3E1-S0-3Q</u>	\$46.00			N.C. (VAC) or N.O./N.C. (VDC)	VAC/VDC	quick-disconnect	Diagram 4	
<u>V3E1-R0-4A8F</u>	\$46.00	- 4mm [0.1574 in]	4mm [0.1574 in] Non-flush	N.O.	20–120	[[]	Diagram 1	Figure 1
<u>V3E1-S0-4A8F</u>	\$46.00			N.C.	VAC/VDC		Diagram 2	
<u>V3E1-R0-4Q</u>	\$46.00			N.O. (VAC) or N.O./N.C. (VDC)	20–250) 1/2"-20 UNF, micro AC	Diagram 3	- Figure 2
<u>V3E1-S0-4Q</u>	\$46.00			N.C. (VAC) or N.O./N.C. (VDC)	VAC/VDC	quick-disconnect	Diagram 4	

¹Standard target Fe360

Wiring Diagrams

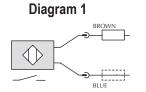
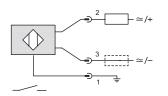


Diagram 3



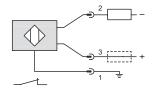
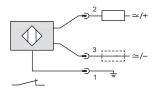
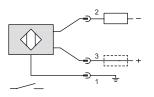


Diagram 2 BLUE

Diagram 4





Connector

1/2 in. micro AC

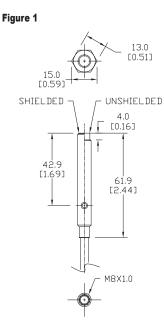


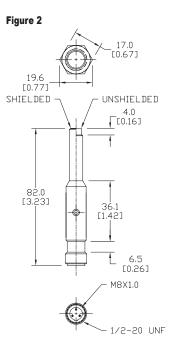
1-800-633-0405 For the latest prices, please check AutomationDirect.com.

V Series M8 AC/DC Indu	ictive Proximity S	pecifications	
Mounting Type	Flush	Non-flush	
Nominal Sensing Distance (mm)	2	4	
Operating Distance	0–1.6 mm	0–3.2 mm	
Material Correction Factors	See Mater	ial Influence Table	
Output Type	N.O./N.C. for Plug; N.O. or N.C. for Cable		
Operating Voltage	-	20 VAC/VDC; C/VDC (Plug only)	
No-load Supply Current		0.7 mA (VDC Plug) 0.40 mA (VDC Cable)	
Operating (Load) Current DC		80mA	
AC		55mA	
Off-state Leakage Current DC		0.40 mA	
AC		0.55 mA	
Voltage Drop	≤ 7.5 VAC / ≤ 8.5 VDC		
Switching Frequency	900Hz	750Hz	
Differential Travel (% of Nominal Distance)		1–20%	
Repeat Accuracy		≤ 5%	
Peak Current		A/150ms Plug V150ms Cable	
Time Delay Before Availability (tv)		100ms	
Short Circuit Protection		Yes	
Operating Temperature	-25 to +70)°C [-13 to 158°F]	
Protection Degree (DIN 40050)	IP67		
LED Indicators	Yellow [Output energized]		
Housing Material	Nickel-plated brass		
Sensing Face Material	PA4T		
Shock/Vibration	IEC 60947-5-2		
Tightening Torque	2 N·1	m (1.48 lb·ft)	
Weight	20g PI	ug; 70g Cable	
Connection	2m [6.5 ft] axial cable or 1/2"-20 UNF, micro AC quick-disconnect		
Agency Approvals	CE, UL E187310		



mm [inches]





NOTE: Each sensor ships with jam nuts.

Note:	Standard	Target	Fe360

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

1-800-633-0405 Accessories for 8mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors						
Part Number	Price	Description	Drawing Link	Weight [lb]		
<u>ST08A</u>	\$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	PDF	0.04		





Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors						
Part Number Price Description Draw		Drawing Link	Weight [lb]			
<u>ST08C</u>	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04		



<u>ST08C</u>

Accessories for 8mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 8mm sensors.

Accessories for 8mm Sensors						
Part Number	Price	Description	Drawing Link	Weight [lb]		
<u>OPT2101</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	PDF	0.02		



<u>OPT2101</u>

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment. For use with 8mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.

Accessories for 8mm Sensors								
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight [lb]		
<u>OPT2112</u>	\$11.50	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	<u>PDF</u>	0.14		
<u>OPT2113</u>	\$21.00	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	<u>PDF</u>	0.26		



Steel OPT2112 & OPT2113

Note: 304 Stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm length), <u>OPT2110</u> (300mm length), and <u>OPT2111</u> (500mm length).