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	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
<u>V3E1-S0-3A8F</u>	\$46.00			N.C.	VAC/VDC		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 quick-disconnect	Diagram 3	Figure 2	
V3E1-S0-3Q	\$46.00			N.C. (VAC) or N.O./N.C. (VDC)	VAC/VDC		Diagram 4		
V3E1-R0-4A8F	\$46.00	- 4mm [0.1574 in] Non-flush		N.O.	20–120	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
V3E1-S0-4A8F	\$46.00		No. Cab	N.C.	VAC/VDC		Diagram 2		
<u>V3E1-R0-4Q</u>	\$46.00		เงงก-ขนรก	N.O. (VAC) or N.O./N.C. (VDC)	20–250	,	Diagram 3	Figure 2	
V3E1-S0-4Q	\$46.00			N.C. (VAC) or N.O./N.C. (VDC)	VAC/VDC		Diagram 4		

¹Standard target Fe360

Wiring Diagrams

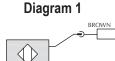
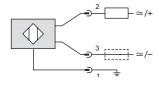


Diagram 3



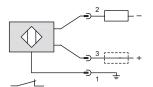


Diagram 2

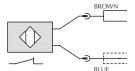
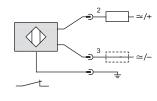
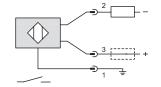


Diagram 4





Connector

1/2 in. micro AC



V Series AC/DC Inductive Proximity Sensors

V Series M8 AC/DC Inductive Proximity Specifications					
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.C. for Plug; N.C. for Cable			
Operating Voltage	20-250 VA	20 VAC/VDC; C/VDC (Plug only)			
No-load Supply Current	1mA (VAC) 0.7 mA (VDC Plug) 0.55 mA (VAC) 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	600mA/150ms Plug 150mA/150ms 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·m (1.48 lb·ft)				
Weight	20g Plug; 70g Cable				
Connection	2m [6.5 ft] axial cable or 1/2"-20 UNF, micro AC quick-disconnect				
Agency Approvals	CE, UL E187310				

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.

Dimensions

mm [inches]

Figure 1

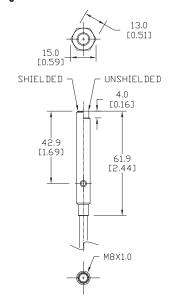
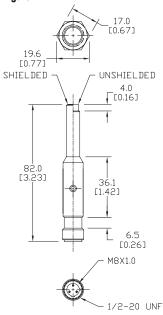


Figure 2



NOTE: Each sensor ships with jam nuts.

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]			
ST08A	\$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	PDF	0.04		



ST08A

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		Drawing Link	Weight [lb]			
ST08C	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04		



ST08C

www.automationdirect.com

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	



OPT2101

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		



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).