V Series AC/DC Inductive Proximity Sensors



M8 (8mm)

- Eight models available
- Low cost/high performance
- LED status indicators are visible at a wide angle
- ${\scriptstyle \bullet}$ 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 Prox Selection Chart									
Part Number	Price	Sensing Range ¹	Mounting	Output State	Voltage	Connection	Wiring	Dimensions	
V3E1-R0-3A8F			Flush	N.O.	20-120 VAC/ VDC	2m (6.5 ft)	Diagram 1	Figure 1	
V3E1-S0-3A8F		2mm (0.0787 in)		N.C.		axial cablé	Diagram 2		
V3E1-R0-3Q				N.O. (VAC) or N.O./N.C. (VDC)	20–250 VAC/ VDC	1/2"-20 UNF, micro AC quick-disconnect	Diagram 3	Figure 0	
V3E1-S0-3Q				N.C. (VAC) or N.O./N.C. (VDC)			Diagram 4	Figure 2	
V3E1-R0-4A8F		4mm (0.1574 in)	Non-flush	N.O.	20-120 VAC/	2m (6.5 ft) axial cable	Diagram 1	Figure 1	
V3E1-S0-4A8F				N.C.	VDC		Diagram 2	Figure 1	
V3E1-R0-4Q				N.O. (VAC) or N.O./N.C. (VDC)	20-250 VAC/	/AC/ 1/2"-20 UNF, micro AC	Diagram 3	Figure 0	
V3E1-S0-4Q				N.C. (VAC) or N.O./N.C. (VDC)	VDC	quick-disconnect	Diagram 4	Figure 2	
¹ Standard target Fe360									

Wiring Diagrams

Diagram 1

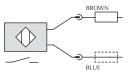
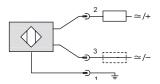


Diagram 3



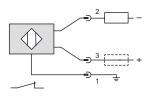


Diagram 2

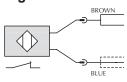
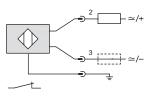
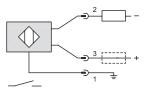


Diagram 4





Connector

1/2 in. micro AC

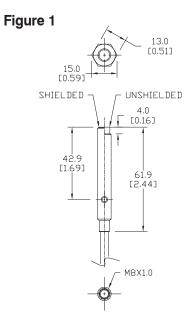


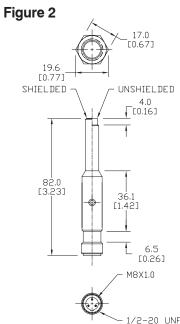
V Series AC/DC Inductive Proximity Sensors

Specifications	V3E Models			
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 Ma	aterial Influence Table		
Output Type	N.0	O./N.C. for Plug; . or N.C. for Cable		
Operating Voltage		–120 VAC/VDC; VAC/VDC (Plug only)		
No-load Supply Current		C) 0.7 mA (VDC Plug) AC) 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 / \leq 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 40 050)	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				

Dimensions

mm [inches]





1/2-20 UNF **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]		
<u>ST08A</u>		Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	<u>PDF</u>	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 Numper Price IIescription		Drawing Link	Weight [lb]			
<u>ST08C</u>		Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	<u>PDF</u>	0.04		





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>		Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	<u>PDF</u>	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>		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>		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	PDF	0.26	



OPT2112 & OPT2113

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