

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
- 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	\$41.50	2mm (0.0787 in)	Flush	N.O.	20–120 VAC/ VDC	2m (6.5 ft) axial cable	Diagram 1	Figure 1
V3E1-S0-3A8F	\$41.50			N.C.			Diagram 2	
V3E1-R0-3Q	\$41.50			N.O. (VAC) or N.O./N.C. (VDC)	20–250 VAC/ VDC	1/2"–20 UNF, micro AC quick-disconnect	Diagram 3	Figure 2
V3E1-S0-3Q	\$41.50			N.C. (VAC) or N.O./N.C. (VDC)			Diagram 4	
V3E1-R0-4A8F	\$41.50	4mm (0.1574 in)	Non-flush	N.O.	20–120 VAC/ VDC	2m (6.5 ft) axial cable	Diagram 1	Figure 1
V3E1-S0-4A8F	\$41.50			N.C.			Diagram 2	
V3E1-R0-4Q	\$41.50			N.O. (VAC) or N.O./N.C. (VDC)	20–250 VAC/ VDC	1/2"–20 UNF, micro AC quick-disconnect	Diagram 3	Figure 2
V3E1-S0-4Q	\$41.50			N.C. (VAC) or N.O./N.C. (VDC)			Diagram 4	

¹Standard target Fe360

Wiring Diagrams

Diagram 1

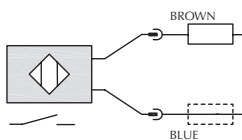


Diagram 2

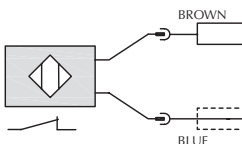


Diagram 3

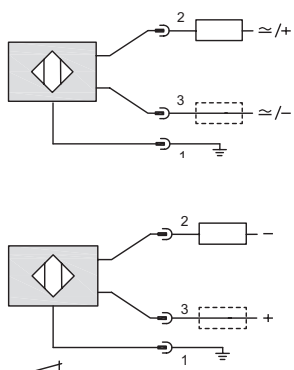
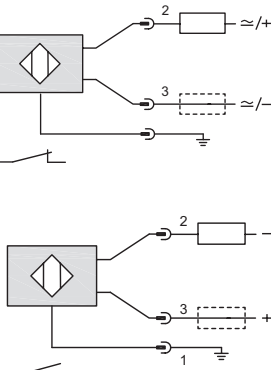
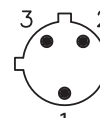


Diagram 4



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 Material Influence Table		
Output Type	N.O./N.C. for Plug; N.O. or N.C. for Cable		
Operating Voltage	20-120 VAC/VDC; 20-250 VAC/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 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]

Figure 1

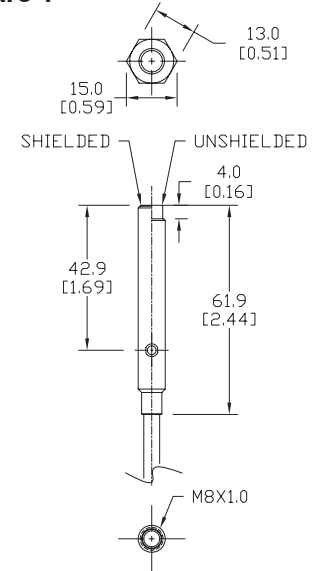
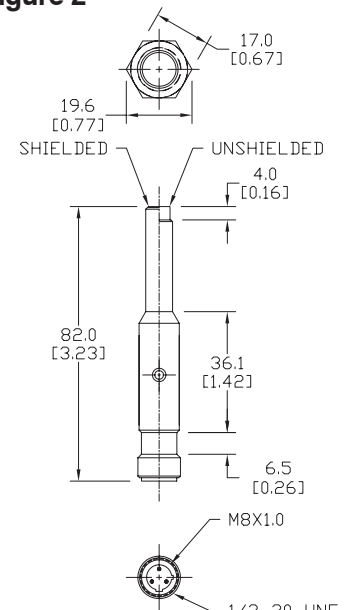


Figure 2



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.

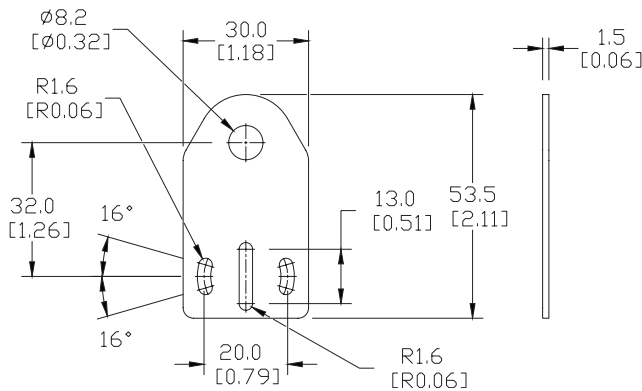
Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
ST08A	\$2.00	Mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	0.04



ST08A

Dimensions

mm [inches]



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-adaptor sensors. Hexagonal nuts not included.

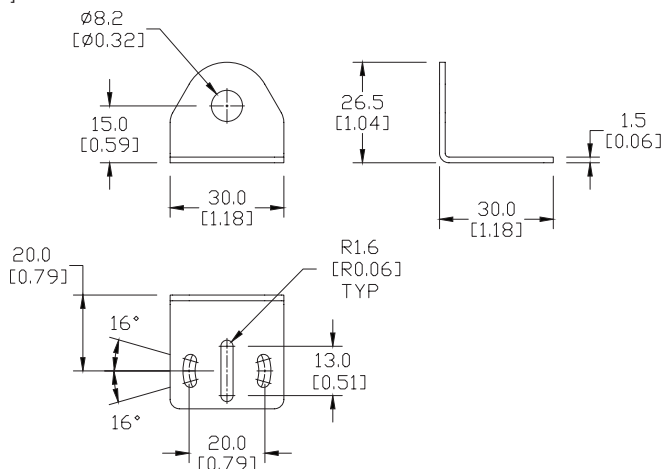
Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
ST08C	\$2.00	Mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	0.04



ST08C

Dimensions

mm [inches]



See our website: www.AutomationDirect.com
for complete engineering drawings

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]
OPT2101	\$7.25	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]
OPT2112	\$10.50	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	PDF	0.14
OPT2113	\$18.50	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

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



OPT2112 & OPT2113