

EV-12M

Main Unit, Shielded Type, M12

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

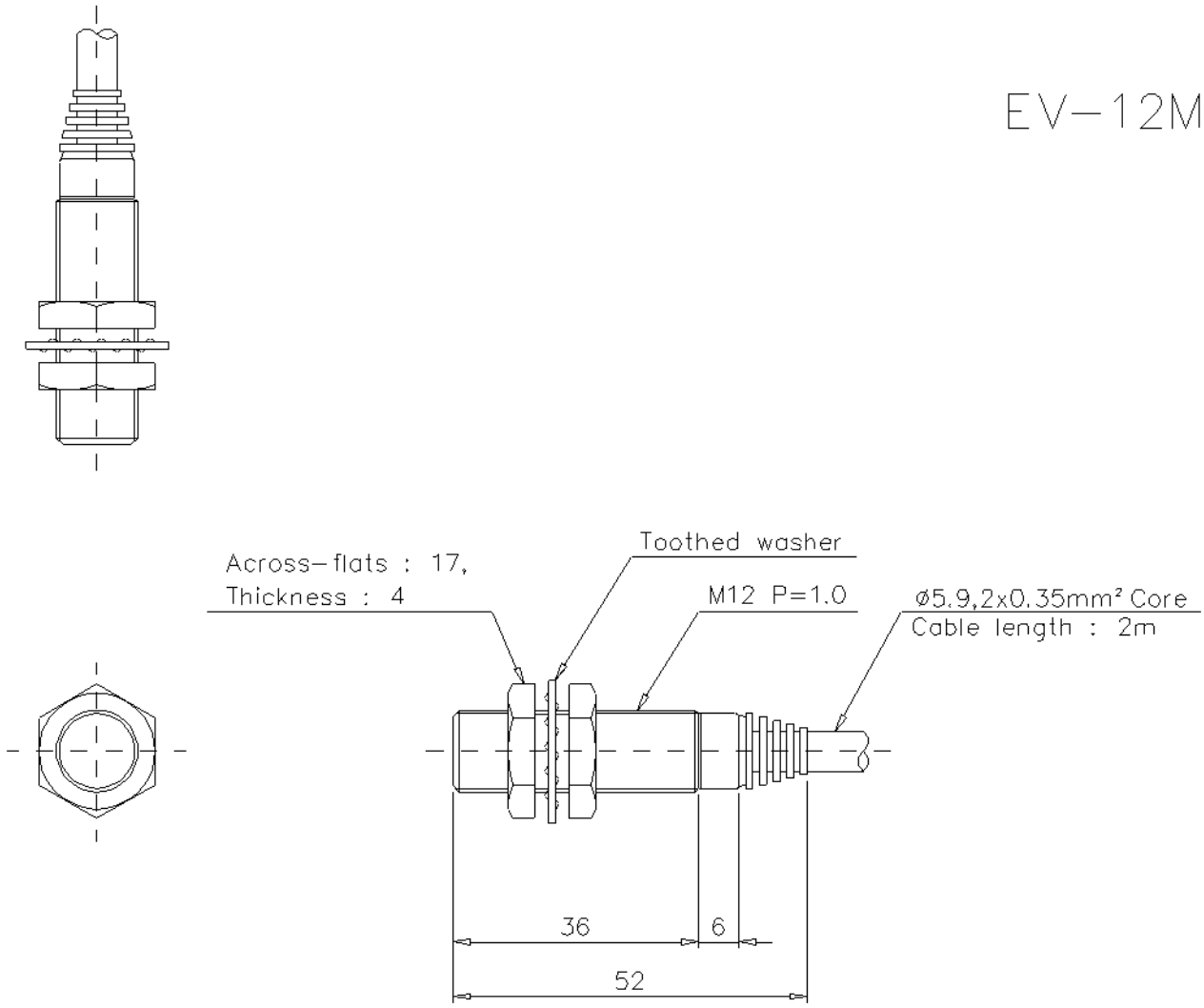
Specifications

Model		EV-12M*1
Type		AC , Shielded
Shape		M12
Detecting distance		2.5 mm 0.10" ±10%
Detectable object		Ferrous metals (see Characteristics for nonferrous metals)
Standard target (iron, t=1 mm 0.04")		12 x 12 mm 0.47" x 0.47"
Hysteresis		10% max. of detecting distance
Response frequency		25 Hz
Operation mode		N.O.
Temperature characteristics		±10% max. of detecting distance at 23°C 73.4°F, within -25 to +70°C -13 to +158°F
Control output (switching capacity)		5 to 200 mA
Protection circuit		Short-circuit
Cable length		2 m 6.6'
Rating	Power voltage	24 to 240 VAC, 50/60 Hz
	Current consumption (leakage current)	1.3 mA max. (at 240 VAC)
	Residual voltage	—
Environmental resistance	Enclosure rating	IP67
	Ambient temperature	-25 to +80 °C -13 to 176 °F (No freezing)
	Relative humidity	35 to 95 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions
Case material		Nickel-plated brass
Accessories		Nut × 2, toothed washer × 1, instruction manual
Weight		Approx. 110 g

*1 This product does not comply with the EMC directive.

Dimensions

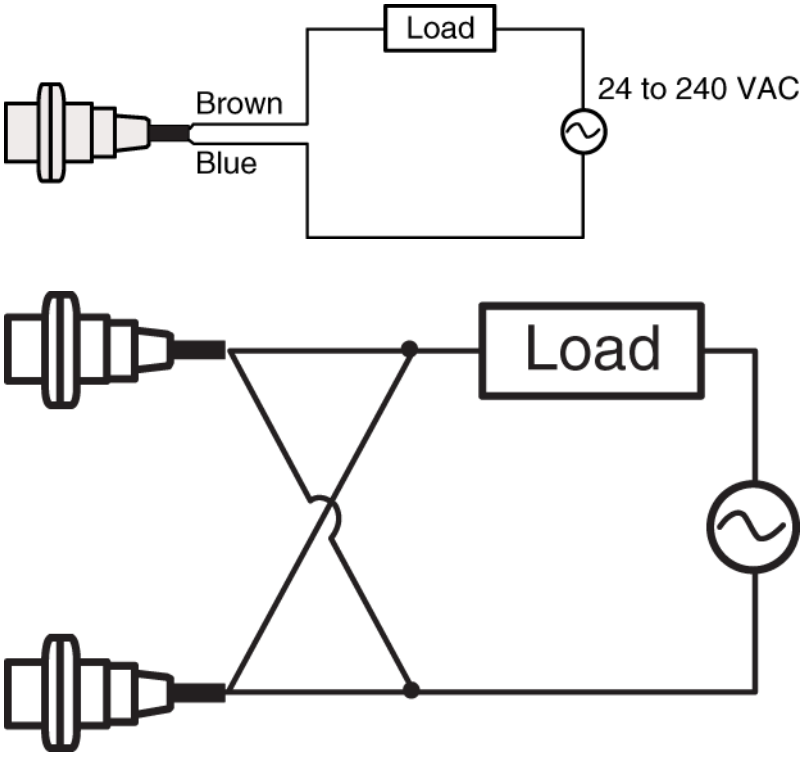
* Download CAD file or product manual for larger image/text and more detail.



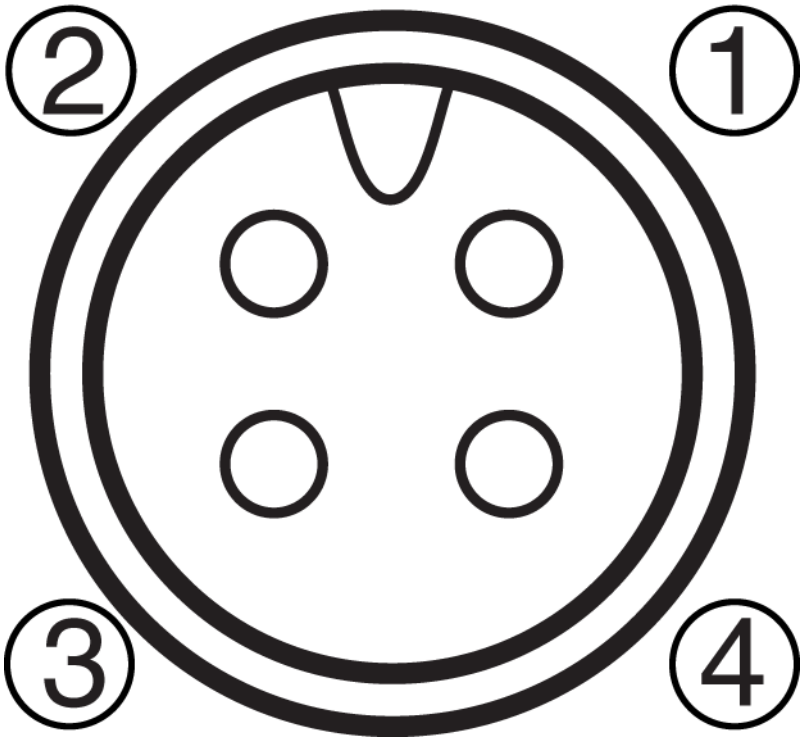
I/O Circuit Connection diagram

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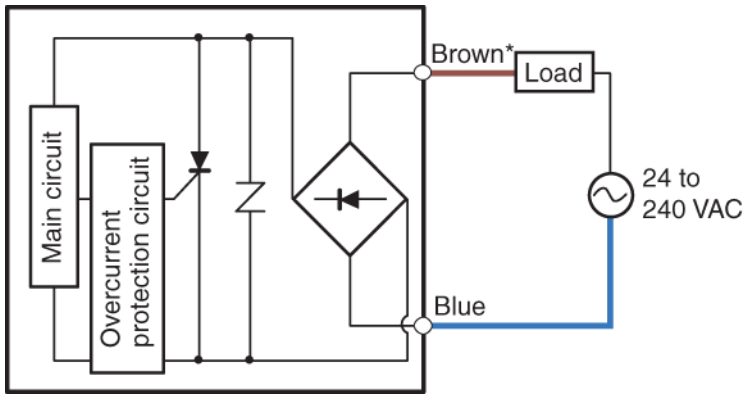
EV Series: AC 2-wire type



Pin arrangement of connector type



EV Series
AC 2-wire type

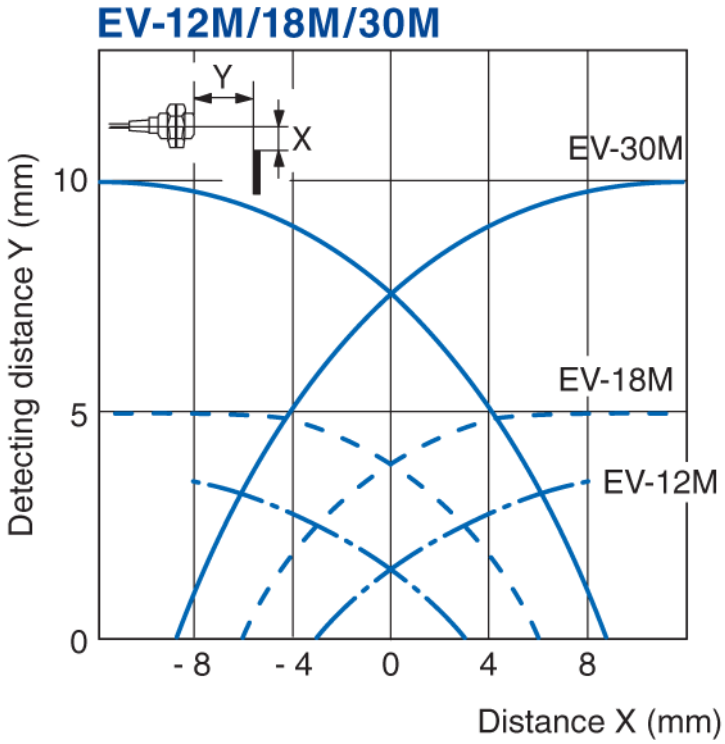


* Load can also be connected between blue wire and power supply.

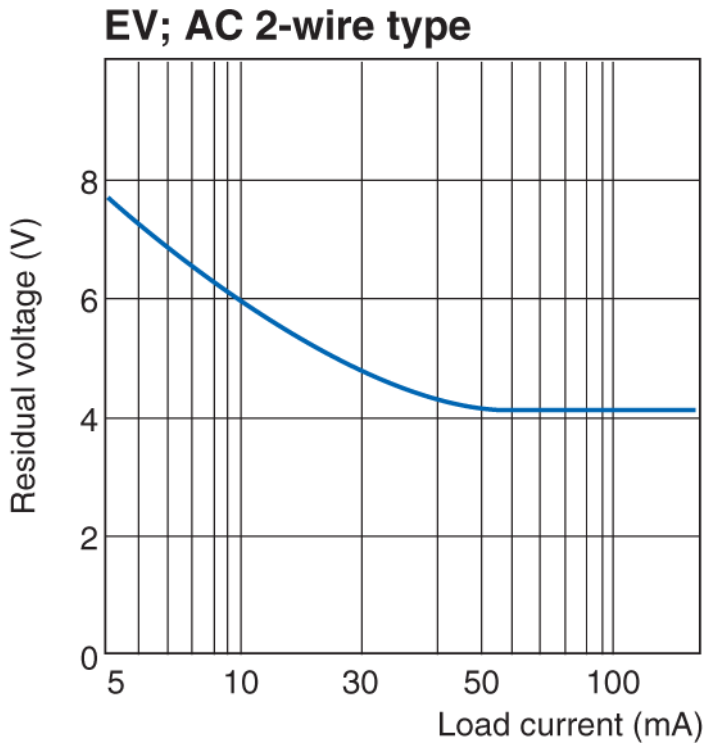
Characteristic

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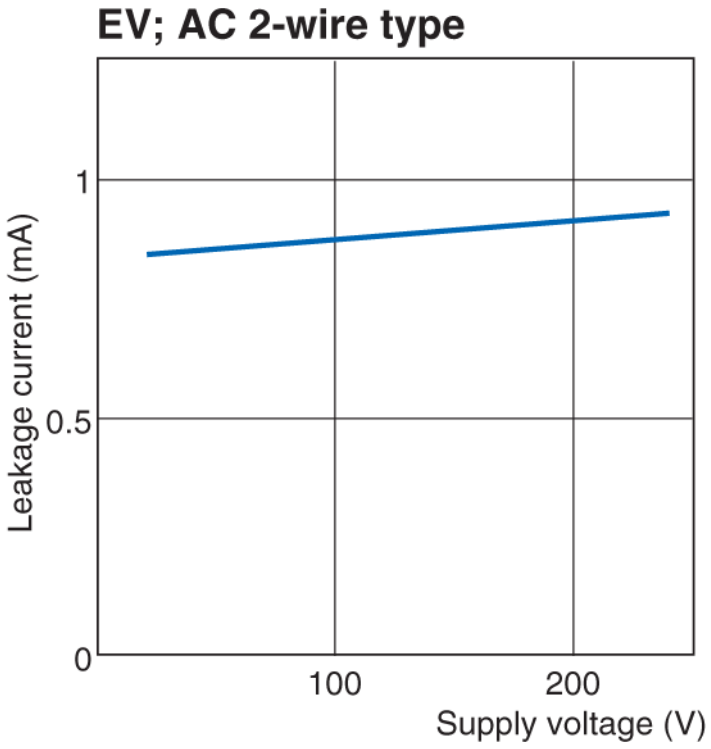
AC 2-wire type



Residual Voltage (Typical)



Leakage current (Typical)



Detecting distance vs. size and material of target (Typical)
AC 2-wire type

