



EV-108MSO(2091)

EV-108M Specially Ordered



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

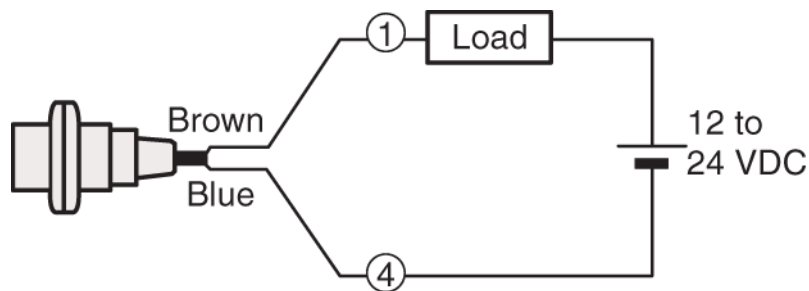
Specifications

Model		EV-108MSO (2091)
Type		Shielded
Shape		M8
Detecting distance		1.5 mm 0.06" ±10%
Detectable object		Ferrous metals (see Characteristics for nonferrous metals)
Standard target (iron, t=1 mm 0.04")		10 x 10 mm 0.39" x 0.39"
Hysteresis		10% max. of detecting distance
Response frequency		800 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 80 mA
Protection circuit		Reversed polarity, surge voltage
Cable length		500 mm19.685"
Rating	Power voltage	12 to 24 VDC
	Current consumption (leakage current)	Current consumption (leakage current): 1.0 mA max., Residual voltage: 3.6 V max. (with 2-m 6.6' cable)
	Residual voltage	Residual voltage: 3.6 V max. (with 2-m 6.6' cable)
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)
Case material		Stainless steel (SUS304)
Weight		Approx. 30 g

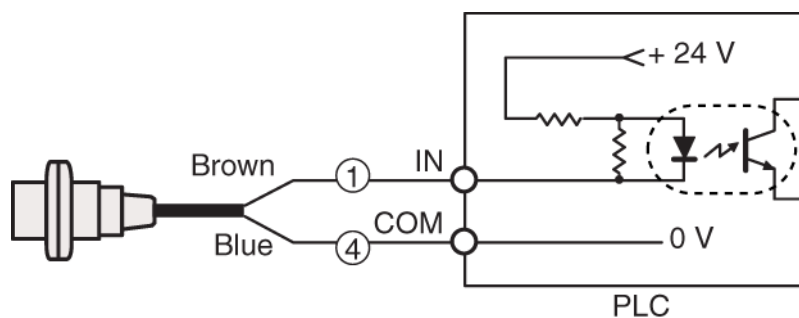
I/O Circuit Connection diagram

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

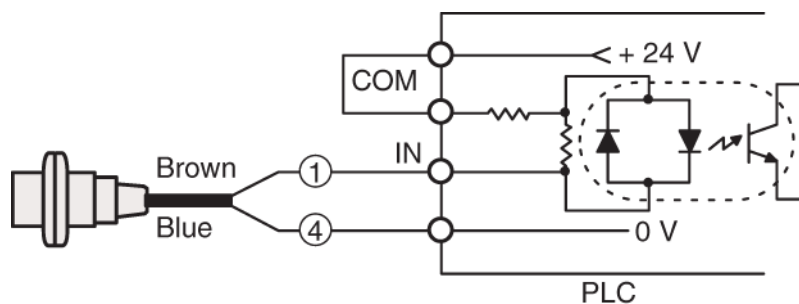
Connection to built-in DC power supply type PLC
(externally connected power supply)



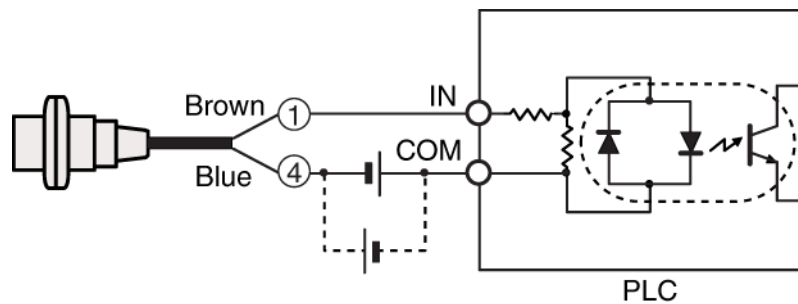
Connection to built-in DC power supply type PLC
(internally connected power supply)



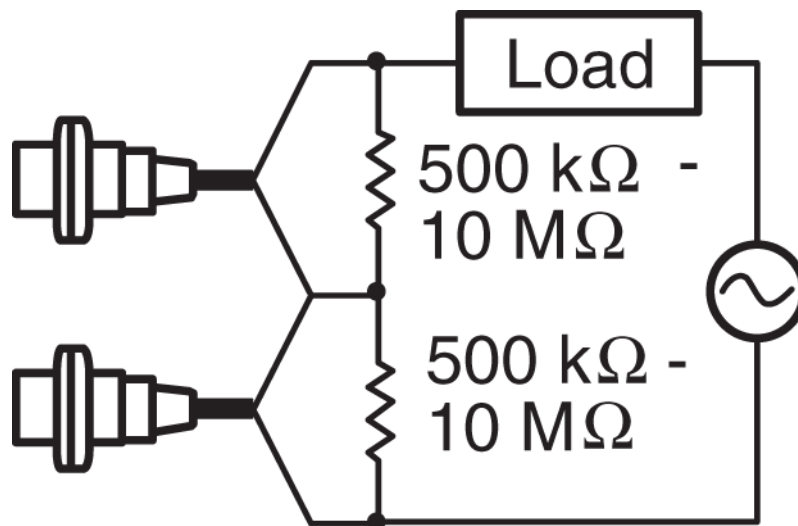
Connection to PLC having no internal DC power supply



For connections indicated by the dotted lines, reverse brown and blue sensor wires

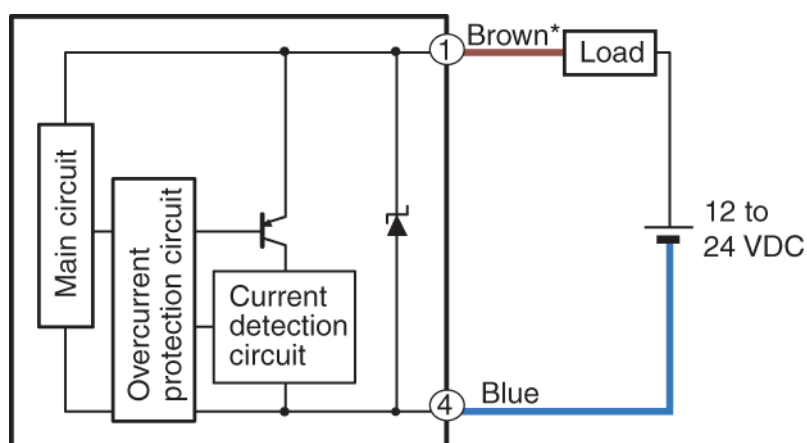


Series connection



Up to 3 proximity sensors can be connected in Series. For this, the supply voltage must be within the range of 85 to 240 VAC. If sensor operation is unstable, connect resistors with a resistance of 500 kΩ to 10 MΩ parallel to the sensor in order to balance the supply voltage.

EV Series DC 2-wire type



* Load can also be connected between blue wire and negative terminal of power supply.
The M8 sensor does not contain short-circuit protection or a current detection circuit.
1 and 4 in the circuit diagram shows the pin number of the connector type.

Characteristic

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

Leakage current (Typical)

