

EM-038

Main Unit, Shielded Type, f3.8, NPN

CE

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

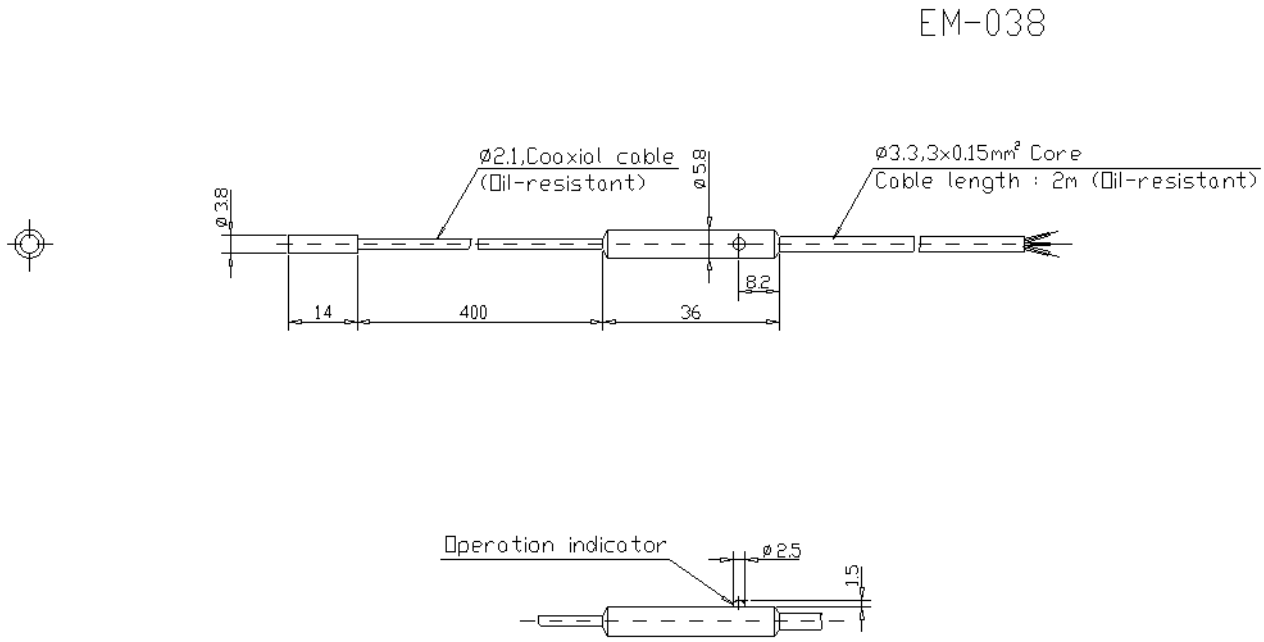
Specifications

Model		EM-038
Type		Shielded
Shape		3.8 mm 0.15" dia Cylindrical.
Detecting distance		0.8 mm 0.031" ±15%
Detectable object		Ferrous metals (see Characteristics for non-ferrous metals)
Standard target (iron, t=1 mm 0.04")		5 x 5 mm 0.20"
Hysteresis		10% max. of detecting distance
Response frequency		1.2 kHz
Operation mode		N.O.
Temperature characteristics		±10% max. of detecting distance at +23°C 73.4°F, within -10 to +70°C 14 to 158°F
Display indicator		Red LED
Output		NPN
Control output		NPN: 200 mA (40 V) max., Residual voltage: 1 V max.
Housing		Stainless steel
Rating	Power voltage	10.8 to 30 VDC, Ripple (P-P) 10 % or less*1
	Current consumption	12 mA or less
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)
Weight		Approx. 38 g (including nuts and 2-m 6.6' cable)

*1 Make sure that the power voltage stays within 10.8 V to 30 V even if it is affected by ripple effects.

Dimensions

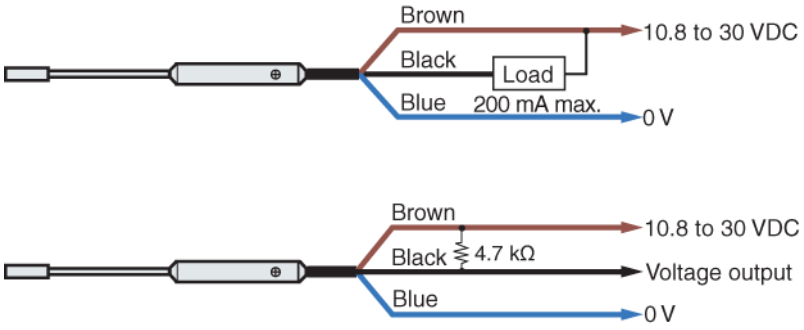
* Download CAD file or product manual for larger image/text and more detail.



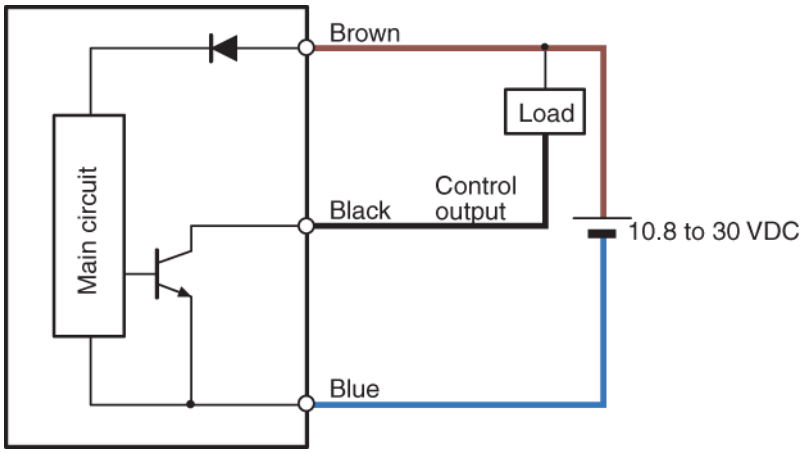
I/O Circuit Connection diagram

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

When driving a direct load (NPN output type)
&
When connecting to a voltage input device (NPN output type)

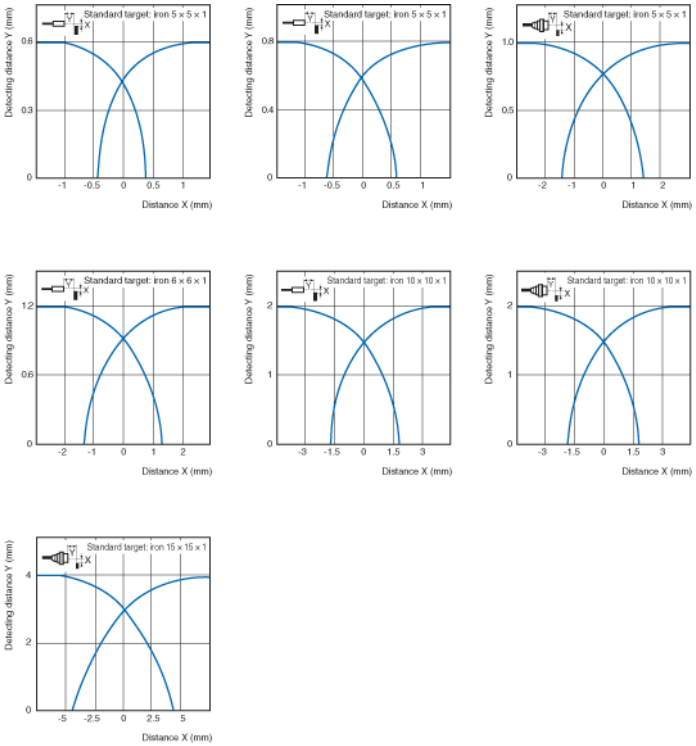


NPN



Characteristic

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Detecting distance vs. size and material of target (Typical)

