

# EM-038B

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-038B*1 |
| 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 |
| 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*2 |
| | 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 The alternative-frequency type of EM-038
*2 Make sure that the power voltage stays within 10.8 V to 30 V even if it is affected by ripple effects.