Vibration Sensor

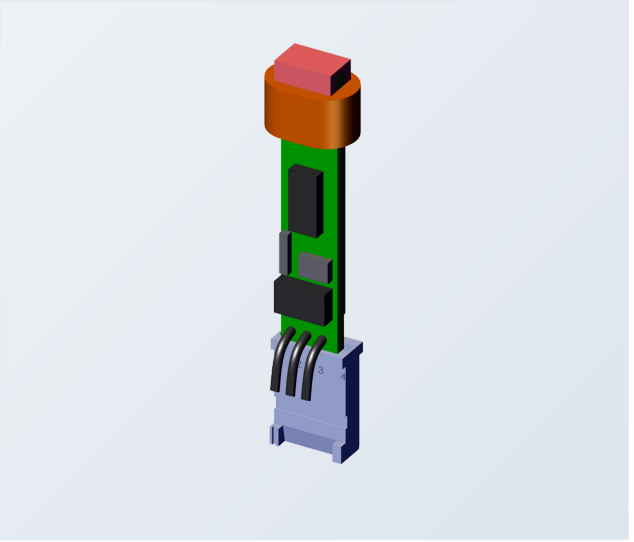
EM057169-0

BLUELEC
Part of JOT Automation

The **EM057169-0** is a single-axis vibration sensor for detecting mechanical vibration in production test and automation fixtures. It comprises a sensor element together with an integrated filter and gain circuit.

The detection direction is selected by fitting a 0 Ω resistor to the X, Y or Z position. Only one axis can be active at a time; the factory-set default axis is Z.

Designed for automated and semi-automated production test fixtures.



Detection axis is set at the factory. Contact sales@bluelec.com to order a unit configured for the X or Y axis.

ELECTRICAL

Supply voltage	**+12 VDC**
Acceleration range	**±2.0 g**
Element sensitivity	**479 mV/g**
Detection axis	**X / Y / Z (default Z)**
Signal conditioning	**integrated filter / gain**

MECHANICAL

Body size	**40.8 × 12.4 × 8.4 mm (1.61 × 0.49 × 0.33 in)**
Cable length	**250 mm (9.84 in)**
Connector	**AMP 281838-3**
Termination	**3-pin, single row**

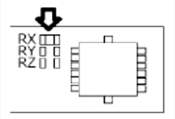
ENVIRONMENTAL

Operating temperature	**0 – 50 °C**
Storage temperature	**−20 … +70 °C**
Relative humidity	**15 – 90 % non-condensing**
Compliance	**RoHS**

PINOUT

AMP 281838-3

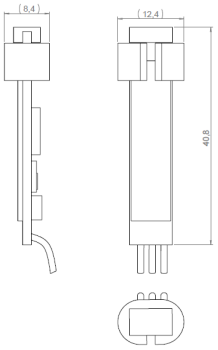
Pin	Signal
1	OUT
2	+12 VDC
3	GND



AXIS SELECTION
Fit one 0 Ω resistor at RX / RY / RZ to select the X / Y / Z axis. Factory default: Z.

DIMENSIONS

mm



TYPICAL FILTER FREQUENCY RESPONSE

gain vs. frequency

DETECTION DIRECTIONS

per axis

3D CAD models available on request via **sales@bluelec.com**

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