

Vibration Sensor

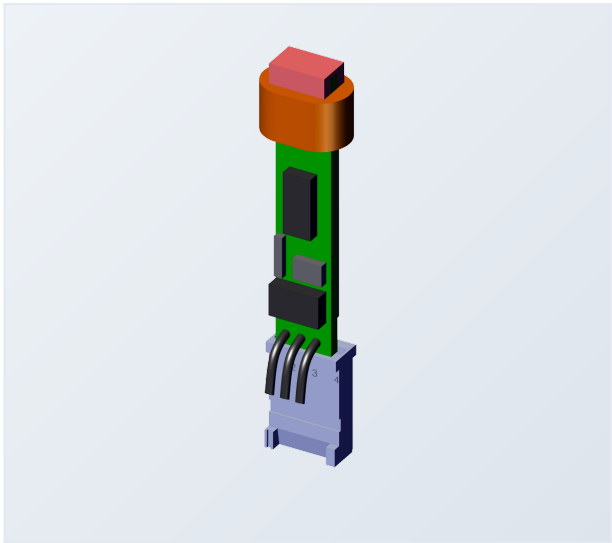
EM057169-0

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.

i 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
Operating temperature	0 – 50 °C
Storage temperature	–20 ... +70 °C
Relative humidity	15 – 90 % non-condensing

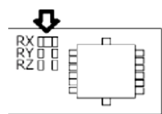
MECHANICAL

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
Compliance	RoHS

PINOUT

AMP 281838-3

Pin	Signal
1	OUT
2	+12 VDC
3	GND

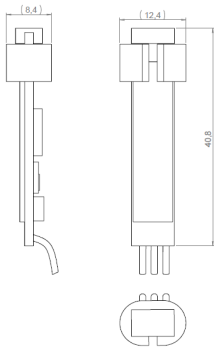


AXIS SELECTION

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