

EM-82-50B VIBRATION TRANSDUCER

8250Bbr 12.12.2012



FEATURES

- acceleration sensor
- 50g measuring range
- based on MEMS technology
- good stability
- linear frequency response
- wide supply voltage range
- internal buffer amplifier
- mechanically compatible with EM-82-50 /-50A
- electrically compatible with EM-82-50 /-50A
- improved dynamic and temperature range

GENERAL

EM-82-50B is acceleration sensor based on MEMS technology. The advantages of MEMS technology are good long term stability, shock resistance, stability and linear frequency response. Additionally thermal and time stability features are superior. The body of sensor is a aluminium, the sensor is molded to body with chemical aluminium. The housing class is IP67

MOUNTING

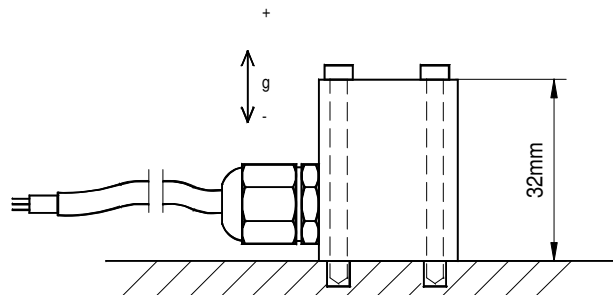
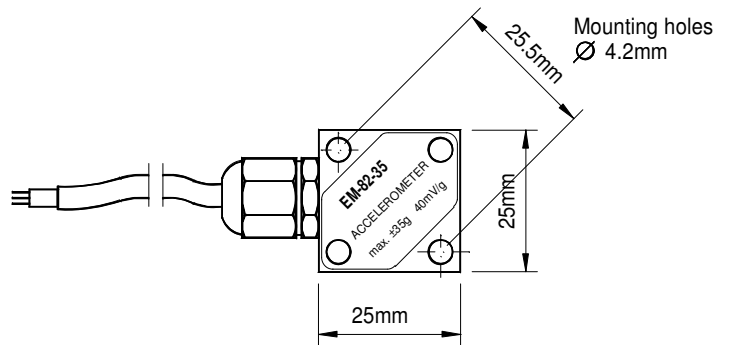
Mounting with two M4x40 screws.

CONNECTIONS "habia cable"

Supply	black
Signal	brown
Gnd	blue
Shield	shield

TECHNICAL DATA

Operating voltage	7...30Vdc
Current consump.	7mA
Operating temp.	-20...105°C continuous
Sensitivity	40mV/g (m/s ² = 4.07mV)
Noise	2mV rms (= 0.50m/s ²)
Output offset	2.5V
Output swing	±1.4V (1.1 - 3.9V)
Detecting range	±35mg...50g
Frequency response	5Hz-500Hz ±3dB 10Hz-400Hz ±5%
Accuracy	+/-3% (159Hz)
Thermal drift	<0.05% / °C
Cabel length	3m
Dimensions	25x25x35mm
Housing	IP67
Weight	appr .60g



frequency range
EM-82-50B

