

EM-82-05A VIBRATION TRANSDUCER

8205Abr 26.9.2013



FEATURES

- acceleration sensor
- 5g measuring range
- based on MEMS technology
- good stability
- linear frequency response
- wide supply voltage range
- internal buffer amplifier
- mechanically compatible with EM-82-05
- electrically compatible with EM-82-05
- improved dynamic and temperature range

GENERAL

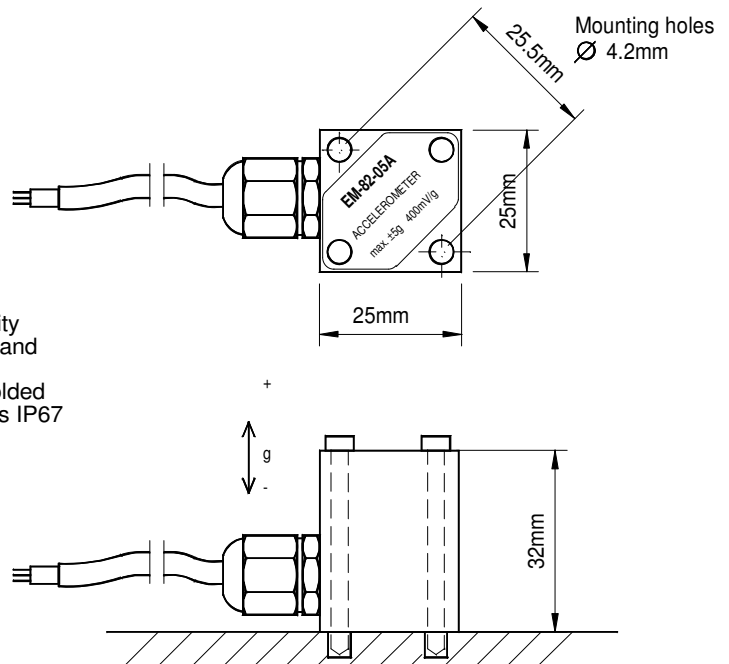
EM-82-05A is acceleration sensor based on MEMS technology. The advantages of MEMS technology are good long term stability, shock resistance, stability and linear frequency response. Additionally thermal and time stability features are superior. The body of sensor is a aluminium, the sensor is molded to body with chemical aluminium. The housing class is IP67

MOUNTING

Mounting with two M4x40 screws.
Tighting torque 3.0Nm
Locking paste Loctite 242

CONNECTIONS

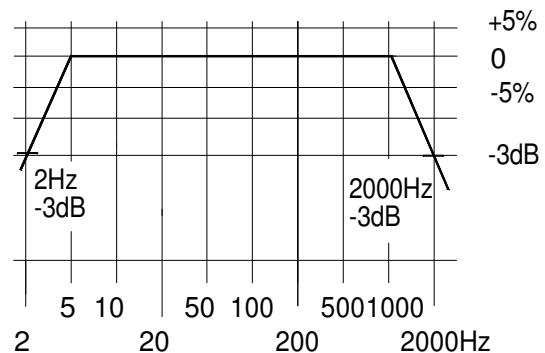
| | habia cable | liy-cy |
|--------|-------------|--------|
| Supply | black | brown |
| Signal | brown | green |
| Gnd | blue | white |
| Shield | shield | shield |



TECHNICAL DATA

| | |
|--------------------|---------------------------------------|
| Operating voltage | 7...32Vdc |
| Current consump. | 7mA |
| Operating temp. | -20...85 °C continuos |
| Sensitivity | 400mV/g (m/s ² = 40.7mV) |
| Noise | 5mV rms (= 0.2m/s ²) |
| Output offset | 2.5V |
| Output swing | ±2.0V (0.5 - 4.5V) |
| Detecting range | ±5mg...5g |
| Frequency response | 2Hz-2000Hz ±-3dB 5Hz-1000Hz ±5% |
| Accuracy | ±3% (159Hz) |
| Thermal drift | <0.05% / °C |
| Cabel lenght | 3m |
| Dimensions | 25x25x35mm |
| Housing | IP67 |
| Weight | appr .60g |

frequency range
EM-82-05A



ELECTROMEN Oy

www.electromen.com