

# EM-82-05A VIBRATION TRANSDUCER

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## 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

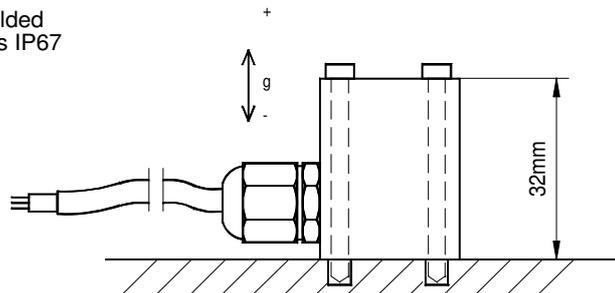
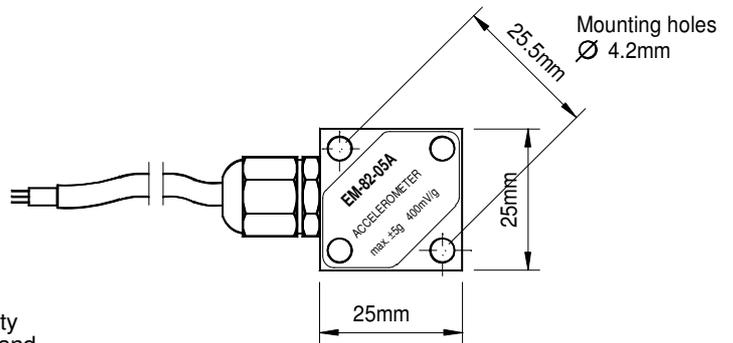
Mounting with two M4x40 screws.  
Tighting torque 3.0Nm  
Locking paste Loctite 242

## 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 <sup>2</sup> = 40.7mV )
Noise	5mV rms ( = 0.2m/s <sup>2</sup> )
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 length	3m
Dimensions	25x25x35mm
Housing	IP67
Weight	appr .60g



frequency range  
EM-82-05A

