Model 805 Accelerometer

TO-5 Series Accelerometer
2-Wire IEPE Interface
Low-Cost, Embedded Applications
Wide Bandwidth to 15kHz

The Model 805 is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-5 header. It is available in ±50g and ±500g dynamic ranges and offers a flat frequency response to 15kHz. The accelerometer features a hermetic construction in a TO-5 header configuration. The model 805 incorporates a stable piezo-ceramic crystal and an integrated charge converter amplifier in a 100% shielded housing suitable for many embedded OEM applications.
The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

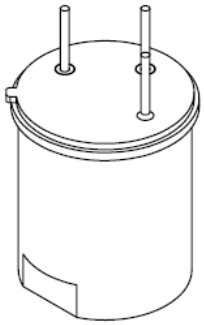
FEATURES

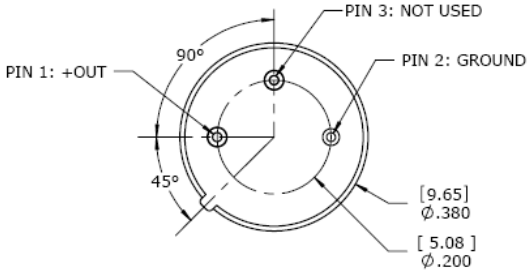
- ±50g and ±500g Range
- Wide bandwidth up to 15kHz
- TO-5 Configuration
- Hermetically Sealed
- -54°C to +100°C Operating Range
- Case Grounded Design

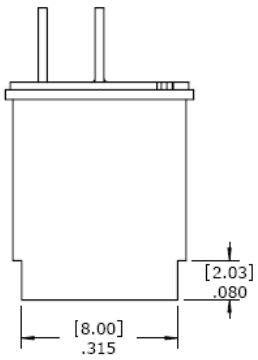
APPLICATIONS

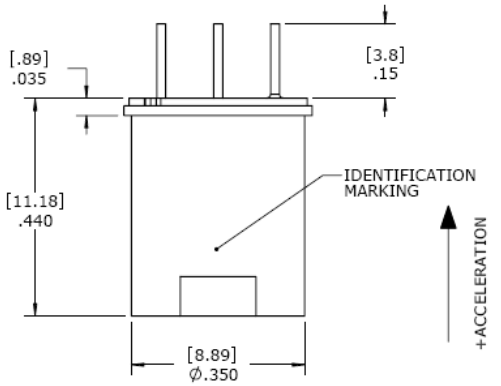
- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution

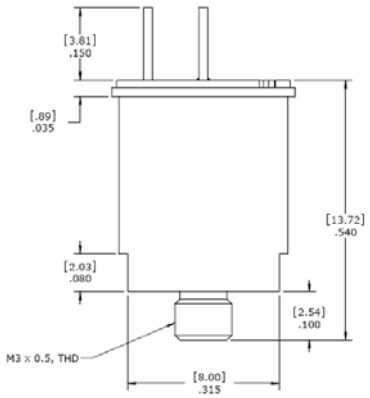
dimensions



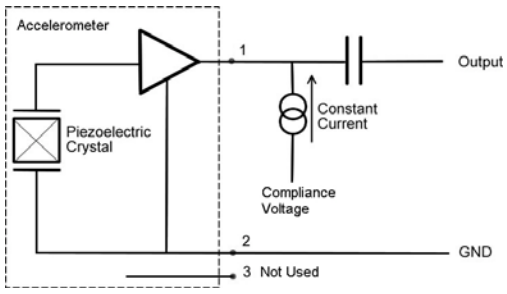








M3 Stud Mounting for -01 Option



LEADER Electronic Co., Ltd.
#68 2nd Str, CuiShanLingShui, WuYi Country Garden, Jiangmen City, GD, CHINA
Tel:+ 86 750 3289680 3289698 Fax:+ 86 750 3289699
http://www.leadersensors.com E-mail:leader@leadersensors.com

Model 805 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1001 for Embedded AC Accelerometers.

Parameters			
DYNAMIC			**Notes**
Range (g)	±50	±500	
Sensitivity (mV/g)	100	10	±10%
Frequency Response (Hz)	1-8000	1-8000	±1dB
Frequency Response (Hz)	0.4-10000	0.4-12000	±3dB
Natural Frequency (Hz)	34000	34000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	5	5	
Shock Limit (g)	5000	5000	
ELECTRICAL			
Compliance Voltage (Vdc)	18 to 30	18 to 30	
Excitation Current (mA)	2 to 10	2 to 10	
Bias Voltage (Vdc)	8 to 12	8 to 12	Room Temperature
Bias Voltage (Vdc)	6 to 13	6 to 13	-54 to +100°C
Output Impedance (Ω)	<100	<100	
Residual Noise (g RMS)	0.0003	0.0009	Broadband 1Hz to 10kHz
Grounding	Case grounded to mounting surface		
ENVIRONMENTAL			
Temperature Response (%)	±10	±10	
Operating Temperature (°C)	-54 to +100		
Storage Temperature (°C)	-54 to +125		
PHYSICAL			
Sensing Element	Piezo-Ceramic		
Case Material	Stainless Steel		
Weight (grams)	5.0		
Mounting	Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)		

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 100Hz

Wiring color code: See schematic

ordering info

PART NUMBERING Model Number+Range

805-GGGG-XX
I I_____ Optional Stud Dash Number
I_____ Range (0050 is 50g)

Dash Number	Stud Options
-01	M3 x 0.5 6g

Example: 805-0050
Model 805, 50g