







MODEL 805 ACCELEROMETER

SPECIFICATIONS

- TO-5 Series Accelerometer
- 2-Wire IEPE Interface
- Low-Cost, Embedded Applications
- Wide Bandwidth to 12kHz

The **Model 805** is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-5 header. It is available in ±50g to ±500g dynamic ranges and offers a flat frequency response to 12kHz. The accelerometer features a hermetic construction in a TO-5 header configuration. The model 805 incorporates a stable piezoceramic crystal and an integrated charge converter amplifier in a 100% shielded housing suitable for many embedded OEM applications.

The model 805 accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting. An isolating cover option is also included for the standard model.

FEATURES

- ◆ ±50g to ±500g Range
- ◆ Wide bandwidth up to 12kHz
- TO-5 Configuration
- Hermetically Sealed
- 40°C to +100°C Operating Range
- Case Grounded Design

APPLICATIONS

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

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters				No.
DYNAMIC Range (g)	±50	±100	±500	Notes
Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	100 1-8000 0.3-10000 34000 ±1 5	50 1-8000 0.3-10000 34000 ±1 5	10 1-8000 0.3-12000 34000 ±1 5	±10% (see Note 1 for ±5% option) ±1dB ±3dB
Residual Noise (g RMS)	0.0004	0.0005	0.0009	Broadband 1Hz to 10kHz
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V) Grounding	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 Case grounde	ed to mounting si	urface	Room Temperature -40 to +100°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±10 -40 to +100 -54 to +125			+120°C option, see Note 2
PHYSICAL Sensing Element Case Material	Piezo-Cerami Stainless Stee	•		

¹ Contact factory for model number to order with ±5% sensitivity tolerance

Weight (grams)

Mounting

5.0

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

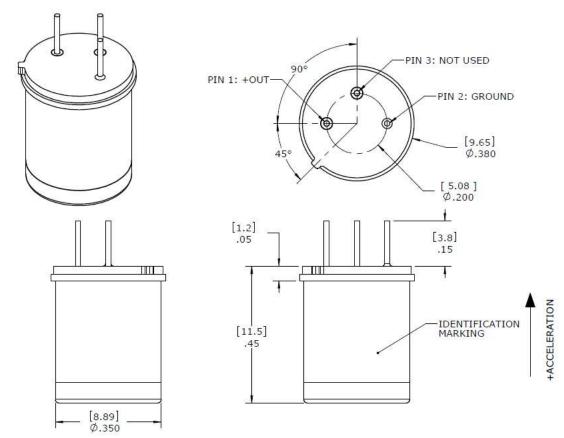
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Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)

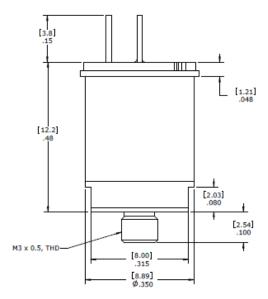
² Contact factory for model number to order with +120°C operating temperature

DIMENSIONS

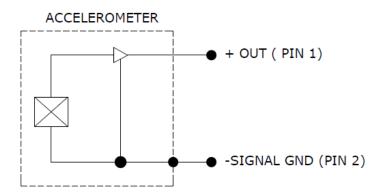
Standard Model 805



Model 805 with M3 Mounting Stud Option



SCHEMATIC



ORDERING INFORMATION





Isolating Cover Option

Examples; 805-0050 Model 805, 50g range

805-0100-01 Model 805 with M3 mounting stud, 100g range

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