



MODEL 805M1 ACCELEROMETER

SPECIFICATIONS

- TO-5 Series Accelerometer
- 3-Wire Voltage Output
- Low-Cost, Embedded Applications
- <0.80mA Power Consumption

The Model 805M1 is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-5 header. It is available in ±20g 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 805M1 incorporates a stable piezo-ceramic crystal with low power electronics in a 100% shielded housing suitable for many embedded OEM applications.

The model 805M1 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

- ±20g to ±500g Range
- Wide bandwidth up to 12kHz
- TO-5 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design
- 3.0-5.5 Excitation Voltage

APPLICATIONS

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

PERFORMANCE SPECIFICATIONS

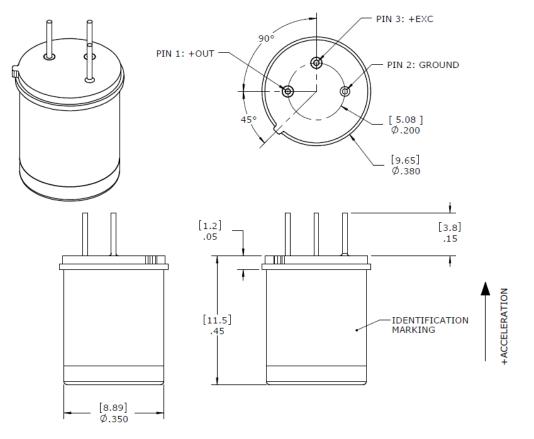
All values are typical at $+24^{\circ}$ C, 80Hz and 5Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±20 100 1-8000 0.4-10000 34000 ±1 5 5000 0.001	± 50 40 1-8000 0.4-10000 34000 ± 1 5 5000 0.001	±100 20 1-8000 0.4-12000 34000 ±1 5 5000 0.003	±200 10 1-8000 0.4-12000 34000 ±1 5 5000 0.003	±500 4 1-8000 0.4-12000 34000 ±1 5 5000 0.005	Notes ±10% ±1dB ±3dB Broadband 1Hz to 10kHz
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (mA) Excitation Voltage (Vdc) ¹ Output Impedance (Ω) Insulation Resistance (M Ω) Full Scale Output Voltage (V) Grounding	Exc Voltage / 2 <0.80 3.0 to 5.5 <100 >100 ±2 Case grounded to mounting surface					@50Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±10 -40 to +100 -54 to +125					
PHYSICAL Sensing Element Case Material Weight (grams) Mounting	erial Piezo-Ceramic Stainless Steel					
¹ The model 805M1 can be operated with 2.8V excitation but the full-scale range will be limited.						
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz						

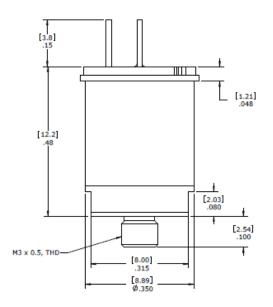
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. TE Connectivity reserves the right to make changes without further notice to any product herein. TE Connectivity makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does TE Connectivity assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. TE Connectivity does not convey any license under its patent rights nor the rights of others.

DIMENSIONS

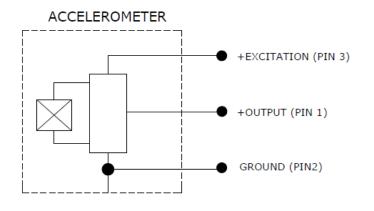
Standard Model 805M1



Model 805M1 with M3 Mounting Stud Option



SCHEMATIC



ORDERING INFORMATION





Isolating Cover Option

Examples; 805M1-0020 Model 805M1, 20g range

805M1-0200-01 Model 805M1 with M3 mounting stud, 200g range





■カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。 ■ 製品のデザイン、仕様等などは、予告なく変更する場合があります。

社:〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431/ FAX: (03) 3695-5698 大阪支店:〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL:(06)6361-4831/ FAX:(06)6361-9360 e-mail: sales-tokyo@krone.co.jp URL: https://www.krone.co.jp

TE.com/sensor solutions

Measurement Specialties, Inc., a TE Connectivity company.

本

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.