

# Accelerometro Modello 808M1



Accelerometro serie TO-8  
Uscita in tensione a 3 fili  
Basso costo, Soluzione integrata  
Consumo <0.80mA



**Il Modello 808M1** miniatura con montaggio adesivo, uscita in tensione con connessione a 3 terminali TO-8. Disponibile in campi di misura dinamici  $\pm 4g$  e  $\pm 20g$  con risposta in frequenza piatta a 5kHz. L'accelerometro è costruito in un corpo ermetico metallico con la base TO-8.

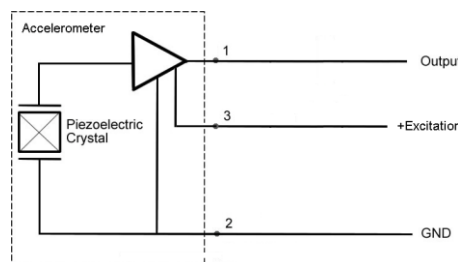
Il modello 808M1 incorpora un cristallo stabile piezo-ceramico con un'elettronica a basso assorbimento in un corpo completamente schermato adatto a molte applicazioni OEM. L'accelerometro ha due configurazioni: una con montaggio adesivo e l'altra con fissaggio a vite.

## CARATTERISTICHE

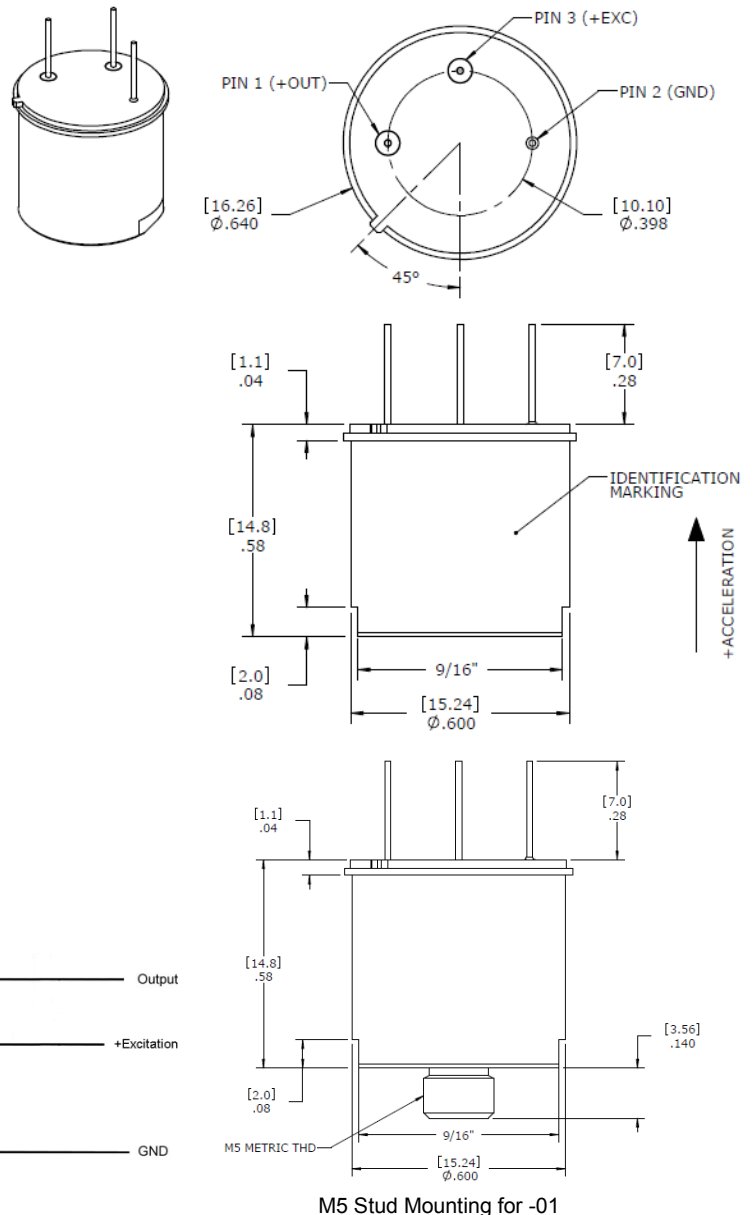
- Campo di misura  $\pm 4g$  and  $\pm 20g$
- Banda passante fino a 5kHz
- Configurazione TO-8
- Ermetico
- Campo di misura operativo  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$
- Corpo a massa elettrica
- Alimentazione 3.0-5.5 Vdc

## APPLICAZIONI

- Monitoraggio macchinario
- Basso costo installazioni OEM
- Monitoraggio strutture permanenti
- Soluzione di rilevamento integrato
- Acquisizione dati



## dimensions



# Accelerometro Modello 808M1

## performance specifications

All values are typical at +24°C, 80Hz and 5Vdc 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			Notes
<b>DYNAMIC</b>			
Range (g)	±4	±20	
Sensitivity (mV/g)	500	100	±10%
Frequency Response (Hz)	1-3000	1-3000	±1dB
Frequency Response (Hz)	0.4-5000	0.4-5000	±3dB
Natural Frequency (Hz)	18000	18000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	5	5	
Shock Limit (g)	5000	5000	
Residual Noise (g RMS)	0.0006	0.0008	Broadband 1Hz to 10kHz
<b>ELECTRICAL</b>			
Bias Voltage (Vdc)	Exc Voltage / 2		
Total Supply Current (mA)	<0.80		
Excitation Voltage (Vdc) <sup>1</sup>	3.0 to 5.5		
Output Impedance (Ω)	<100		
Insulation Resistance (MΩ)	>100		@50Vdc
Full Scale Output Voltage (V)	±2		
Grounding	Case grounded to mounting surface		
<b>ENVIRONMENTAL</b>			
Temperature Response (%)	±10		
Operating Temperature (°C)	-40 to +100		
Storage Temperature (°C)	-54 to +125		
<b>PHYSICAL</b>			
Sensing Element	Piezo-Ceramic, Shear Mode		
Case Material	Stainless Steel		
Weight (grams)	20		
Mounting	Adhesive or Circuit Board (M5 Stud Mounting for -01 Option)		

<sup>1</sup> The model 808M1 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

**Wiring color code:** See schematic

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## ordering info

PART NUMBERING Model Number+Range

808M1-GGGG-XX

I    I    Optional Stud Dash Number  
I    Range (0020 is 20g)

Dash Number    Stud Options  
-01    M5 x 0.8

Example: 808M1-0020  
Model 808M1, 20g