



MODEL 4033 ACCELEROMETER

DC Response, Silicon MEMS
Triaxial Configuration
Low Cost, Great Value
 $\pm 2g$ & $\pm 6g$ Measurement Range
Rugged Aluminum Housing and Strain Relief

The Model 4033 is a low noise, triaxial DC accelerometer packaged in a rugged anodized Aluminum housing. The accelerometer is offered in $\pm 2g$ & $\pm 6g$ ranges with a nominal 0-200Hz bandwidth. The capacitive silicon MEMS sensing element offers high resolution and long term stability for critical measurement applications. The model 4033 has a usable operating temperature range of -40°C to $+85^{\circ}\text{C}$.

FEATURES

- ◆ 5-30Vdc Excitation Voltage
- ◆ Environmentally Sealed
- ◆ Low Pass Filtered Output
- ◆ Capacitive Silicon MEMS Element
- ◆ Integral #24 AWG Cable
- ◆ Self-Test Enabled

APPLICATIONS

- ◆ Low Frequency Vibration Monitoring
- ◆ Tilt & Inclination Measurement
- ◆ Motion Measurements
- ◆ Structural Monitoring
- ◆ Biomechanics Testing
- ◆ Robotics Measurements

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 10Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

PARAMETERS

DYNAMIC		NOTES
Range (g)	±2 ±6	
Sensitivity (mV/g)	1000 333	±10%
Frequency Response (Hz)	0-200 0-200	±5%
Non-Linearity (%FSO)	±1 ±1	
Transverse Sensitivity (%)	<3 <3	
Shock Limit (g)	2000 2000	
Residual Noise (µV RMS)	600 240	Passband
Residual Noise (µg/√Hz RMS)	42 51	
Self Test Output Change (mV)	X = +210 ±90 X = +70 ±30 Y = -210 ±90 Y = -70 ±30 Z = -340 ±190 Z = -110 ±65	Ground ST Lead

ELECTRICAL

Zero Acceleration Output (V)	2.5 ±0.10
Excitation Voltage (Vdc)	5 to 30
Excitation Current (mA)	4
Full Scale Output Voltage (Vdc)	±2
Ground Isolation	Isolated from Mounting Surface

ENVIRONMENTAL

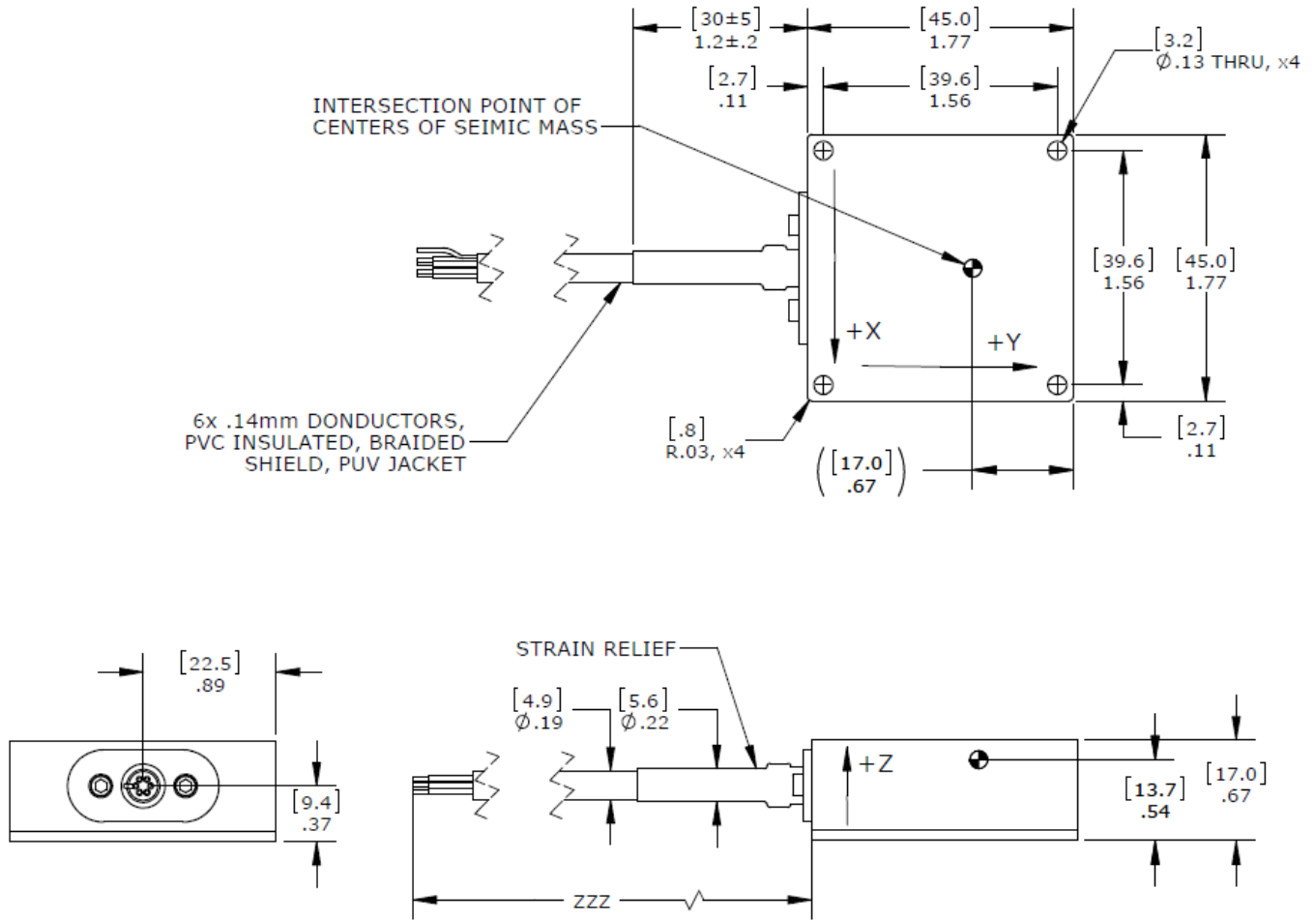
Thermal Zero Shift (%FSO)	±4	From -40° to +85°C
Thermal Sensitivity Shift (%)	±5	From -40° to +85°C
Operating Temperature (°C)	-40° to +85°C	
Humidity	Epoxy Sealed, IP65	

PHYSICAL

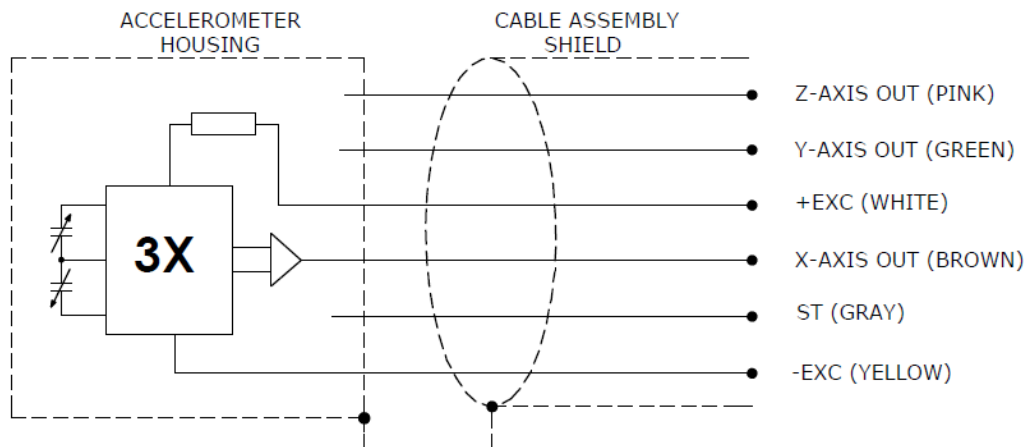
Housing Material	Anodized Aluminum
Weight (grams)	80 (cable not included)
Mounting	4x #4-40 or M3 Screws
Mounting Torque	6 lb-in (2.0 N-m)

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz
Optional accessories: 121 3-Channel Precision Low Noise DC Amplifier

DIMENSIONS



SCHEMATIC



ORDERING INFORMATION

4033	GGG	ZZZ
Series Type		
Range		
002=2g		
006=6g		
Cable length		
120=120 inches		
240=240 inches		
360=360 inches		
197=197 inches, 5 meters		
394=394 inches, 10 meters		

Example; 4033-002-120
Model 4033, 2g range, 120inch (10ft) cable length

NORTH AMERICA

Tel: 800-522-6752
customercare.hmp@te.com

EUROPE

Tel: +31 73 624 6999
customercare.lcsb@te.com

ASIA

Tel: 0400-820-6015
customercare.shzn@te.com

TE.com/sensorsolutions

MEAS France SAS and Measurement Specialties (China) , Inc., are TE Connectivity companies.

TE Connectivity, TE, and the TE connectivity (logo) 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.

© 2017 TE Connectivity Ltd. All Rights Reserved.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9