CM-P Precision Triaxial Accelerometer
Precision Accelerometer, Industrial, Ceramic Shear IEPE Side Exit Triax With Connector

Features
Our line of Precision Acclerometers With AC Voltage Output e is designed for use with all types of data collectors, online analysis systems and TSI.

Protecting
Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.
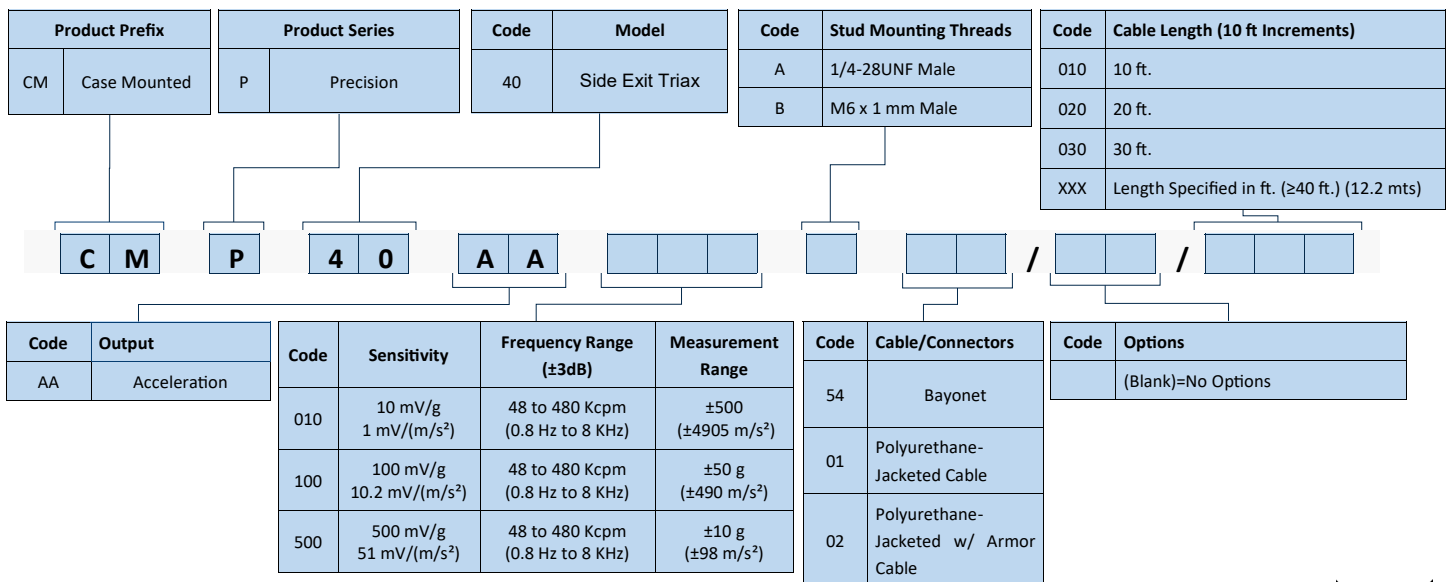
Technical Performance	
Mounted Base Resonance:	1200 Kcpm (20 KHz)
Measurement Range	See: "How To Order" Table ±15%
Frequency Range (±3 dB) :	See: "How To Order" Table
Broadband Resolution (1 to 10000 Hz) :	100 µg (981 µm/sec^2)
Non-Linearity:	± 1%
Transverse Sensitivity	≤5 %

Mechanical Performance	
Case Material:	304 Stainless Steel
Sensing Element/Construction:	Ceramic Shear
Mounting Torque:	2 to 5 ft-lb (4 to 7 N-m)
Weight:	4.9 oz (139 gm)
Mounting Threads:	See: "How To Order" Table

Electrical	
Excitation Voltage:	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Settling Time (within 1% of bias)	≤3.0 sec
Electrical Isolation (Case):	>10^8 Ohms
Electrical Isolation:	Case
Spectral Noise (10 Hz) :	7.0 µg/√Hz (68.7 (µm/sec^2)/√Hz)

Environmental	
Temperature Range:	- 65 to +250 °F (-54 to +121 °C)
Temperature Response:	See Graph %/°F
Enclosure Rating:	Welded Hermetic
Overload Limit (Shock):	5000 g pk (49050 m/s² pk)

Wiring	X Axis	Y Axis	Z Axis	Ground
4 Pin Bayonet	Pin A	Pin B	Pin C	Pin D
Integral Cable	Red	Green	White	Black

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)

How To Order

Product Prefix		Product Series		Code	Model	Code	Stud Mounting Threads	Code	Cable Length (10 ft Increments)
CM	Case Mounted	P	Precision	40	Side Exit Triax	A	1/4-28UNF Male	010	10 ft.
						B	M6 x 1 mm Male	020	20 ft.
								030	30 ft.
								XXX	Length Specified in ft. (≥40 ft.) (12.2 mts)

C M P 4 0 A A _ _ _ _ _ _ / _ _ / _ _ _

Code	Output
AA	Acceleration

Code	Sensitivity	Frequency Range (±3dB)	Measurement Range
010	10 mV/g 1 mV/(m/s²)	48 to 480 Kcpm (0.8 Hz to 8 KHz)	±500 (±4905 m/s²)
100	100 mV/g 10.2 mV/(m/s²)	48 to 480 Kcpm (0.8 Hz to 8 KHz)	±50 g (±490 m/s²)
500	500 mV/g 51 mV/(m/s²)	48 to 480 Kcpm (0.8 Hz to 8 KHz)	±10 g (±98 m/s²)

Code	Cable/Connectors
54	Bayonet
01	Polyurethane-Jacketed Cable
02	Polyurethane-Jacketed w/ Armor Cable

Code	Options
	(Blank)=No Options

SHINKAWA

SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com

CE

We reserve the right to alter the specification of this product without prior notice, July 2017-REV.11

CM-P Precision Triaxial Accelerometer
Precision Accelerometer, Industrial, Ceramic Shear IEPE Side Exit Triax With Connector

OUTLINE DRAWING
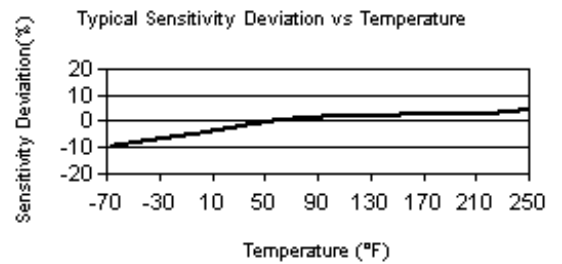**MODEL CM-P40**
ACCELEROMETER
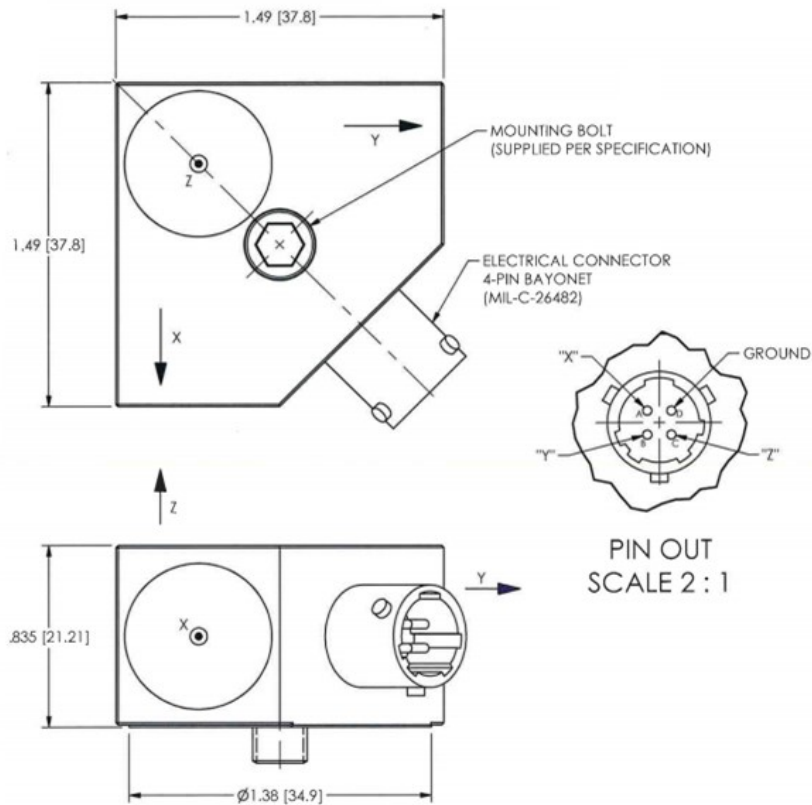
Option: EX , Hazardous Area Approval	Temperature Response Graph % / °F

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All specifications are at room temperature unless otherwise specified.

Typical Sensitivity Deviation vs Temperature

Product Notes:

[1] Conversion Factor 1g = 9.81 m/s².
[2] Typical.
[3] Zero-based, least-squares, straight line method.
[4] 1Hz = 60 cpm (cycles per minute).
[5] The high frequency tolerance is accurate within ±10% of the specified frequency.
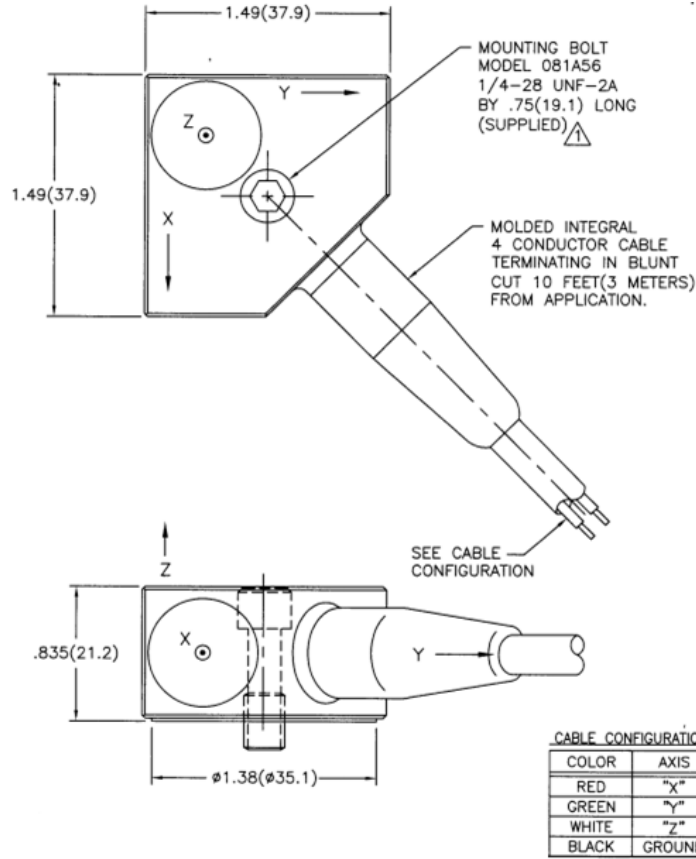[6] 1/4-28 has no equivalent in S.I. units.

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CM-P Precision Triaxle Accelerometer
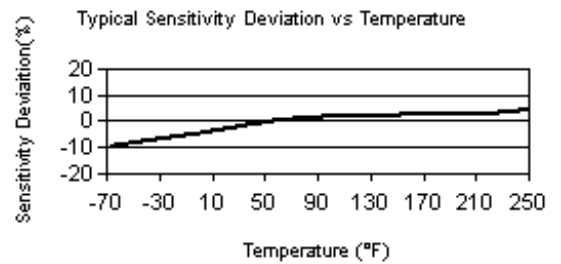## Precision Accelerometer, Industrial, Ceramic Shear IEPE Side Exit Triax With Integral Polyurethane Cable

OUTLINE DRAWING
MODEL CM-P40
ACCELEROMETER

1.49(37.9)

1.49(37.9)

MOUNTING BOLT
MODEL 081A56
1/4-28 UNF-2A
BY .75(19.1) LONG
(SUPPLIED)

MOLDED INTEGRAL
4 CONDUCTOR CABLE
TERMINATING IN BLUNT
CUT 10 FEET(3 METERS)
FROM APPLICATION.

SEE CABLE
CONFIGURATION

.835(21.2)

ø1.38(ø35.1)

CABLE CONFIGURATION

COLOR	AXIS
RED	"X"
GREEN	"Y"
WHITE	"Z"
BLACK	GROUND

Option: EX , Hazardous Area Approval	**Temperature Response Graph % / °F**

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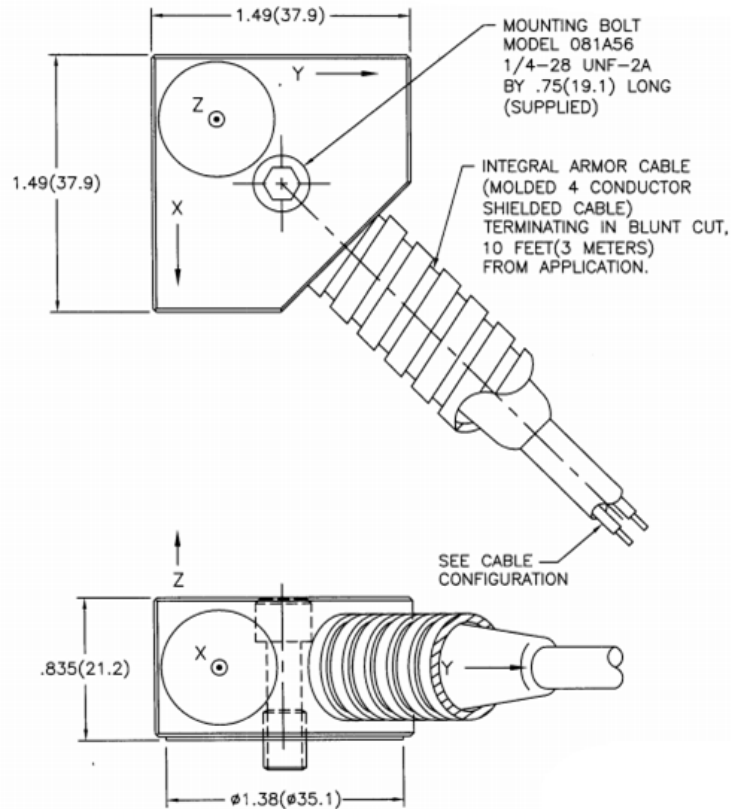[6] 1/4-28 has no equivalent in S.I. units.

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CM-P Precision Triaxial Accelerometer

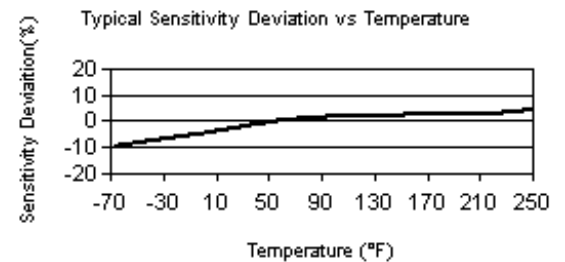Precision Accelerometer, Industrial, Ceramic Shear IEPE Side Exit Triax With Integral Armored Cable

OUTLINE DRAWING
MODEL CM-P40
ACCELEROMETER

Option: EX , Hazardous Area Approval	Temperature Response Graph % / °F

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Typical Sensitivity Deviation vs Temperature

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