

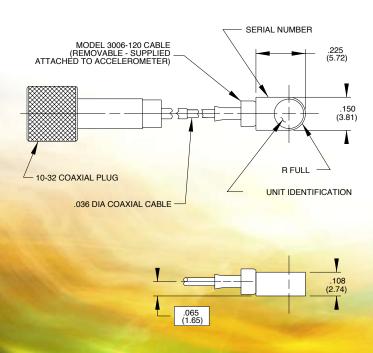
Endevco

Model 25B Isotron[®] accelerometer

Features

- Low impedance output
- World's smallest Isotron®
- Detachable coaxial cable
- Light weight (0.2 gm)
- Ground isolated





 STANDARD TOLERANCE

 INCHES
 (MILLIMETERS)

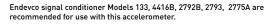
 .XX = +/- .03
 (.X = +/- .8)

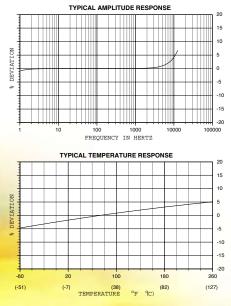
 .XXX = +/- .010
 (.XX = +/- .25)

Description

The Endevco[®] Model 25B Isomin[™] is an extremely small, adhesive mounted piezoelectric accelerometer with integral electronics, designed specifically for measuring vibration on very small objects. The unit weighs only 0.2 gm, reducing unwanted mass loading effects. The "B" version of Model 25 offers a flexible, detachable coaxial cable which can be replaced by the user in the field. This feature provides extended service life when repetitive installations or heavy use are expected. As with the "A" version, Model 25B is ideal for measuring vibration in scaled models, small electronic components, and biomedical research. An optional triaxial mounting block (Model 2950M16) is available for setting up three-axis measurement.

The Model 25B features Endevco's Piezite® Type sensing element operating in shear mode. The internal electronics inside the accelerometer convert high impedance input into low impedance voltage output through the same cable that supplies the required 4 mA constant current power. Signal ground is isolated from the mounting surface of the unit by a hard anodized surface. A removal tool is included for proper removal in the field. A 4,000 g's full scale range is available in the 25BM1 version.





MEGGÍTT smart engineering for extreme environments

Model 25B Isotron[®] accelerometer

Endevco

SPECIFICATIONS

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C), 4 mA, and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

DYNAMIC CHARACTERISTICS	Units	1000
RANGE	g	±1000
VOLTAGE SENSITIVITY	mV/g	5
Typical Minimum	mV/g	4
FREQUENCY RESPONSE	iiiv/g	See Typical Amplitude Response
RESONANCE FREQUENCY	kHz	50
AMPLITUDE RESPONSE [2]		
±5%	Hz	2 to 8000
±1dB	Hz	1 to 12 000
TEMPERATURE RESPONSE		See Typical Curve
TRANSVERSE SENSITIVITY	%	≤5
AMPLITUDE LINEARITY	%	< 2 to F. S.
OUTPUT CHARACTERISTICS		
OUTPUT POLARITY		Acceleration directed into the base of the unit
	V de	produces positive output
DC OUTPUT BIAS VOLTAGE	Vdc	+8.5 to +11.5
	Ω V	<u>≤ 600</u>
FULL SCALE OUTPUT VOLTAGE RESIDUAL NOISE		±5.0 ≤ 0.007
GROUNDING	equiv. g rms	Signal ground isolated from mounting surface.
GROUNDING		Signal ground isolated from mounting surface.
POWER REQUIREMENT		
SUPPLY CURRENT [1]	mA	+3.5 to +4.5
VOLTAGE	Vdc	+18 to +24
WARM-UP TIME	Sec	<3
ENVIRONMENTAL CHARACTERISTICS		
TEMPERATURE RANGE		-67°F to +257°F (-55°C to +125°C)
HUMIDITY		Epoxy sealed, non-hermetic
SINUSOIDAL VIBRATION LIMIT	g pk	500
SHOCK LIMIT	g pk	2000
BASE STRAIN SENSITIVITY	equiv. g pk/µ strain	0.002
ELECTROMAGNETIC CENCITIVITY		
ELECTROMAGNETIC SENSITIVITY	equiv. g rms/gauss	0.09
	equiv. g rms/gauss	0.09
PHYSICAL CHARACTERISTICS	equiv. g rms/gauss	
PHYSICAL CHARACTERISTICS DIMENSIONS		See Outline Drawing
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT	equiv. g rms/gauss gm (oz)	See Outline Drawing 0.2 (.01)
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL		See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT		See Outline Drawing 0.2 (.01)
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PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED:	gm (oz)	See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized Adhesive
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED: SENSITIVITY	gm (oz) mV/g	See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED: SENSITIVITY TRANSVERSE SENSITIVITY FREQUENCY RESPONSE	gm (oz)	See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized Adhesive 20 Hz to 12 kHz
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED: SENSITIVITY TRANSVERSE SENSITIVITY FREQUENCY RESPONSE ACCESSORIES	gm (oz) 	See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized Adhesive 20 Hz to 12 kHz caused by inappropriate removal procedures are not covered
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED: SENSITIVITY TRANSVERSE SENSITIVITY FREQUENCY RESPONSE ACCESSORIES Model 3006-120 (10 ft) CABLE ASSE	gm (oz) 	See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized Adhesive 20 Hz to 12 kHz caused by inappropriate removal procedures are not covered by Endevco's warranty.
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Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability.

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