

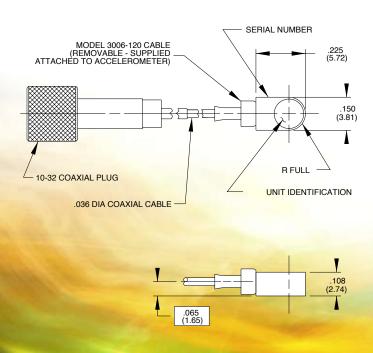
# Endevco

### Model 25B Isotron<sup>®</sup> accelerometer

#### Features

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





 STANDARD TOLERANCE

 INCHES
 (MILLIMETERS)

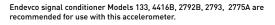
 .XX = +/- .03
 (.X = +/- .8)

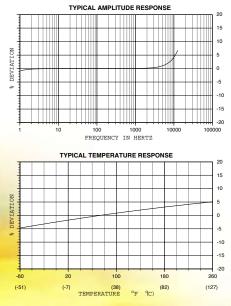
 .XXX = +/- .010
 (.XX = +/- .25)

### Description

The Endevco<sup>®</sup> Model 25B Isomin<sup>™</sup> 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<sup>®</sup> 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)
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL		See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3]		See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized
PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION		See Outline Drawing 0.2 (.01) Aluminum Alloy, Hard Anodized
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.
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) P/N 31836 CABLE ASSEI REMOVAL TO OPTIONAL 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 by Endevco's warranty.         4. Follow the Instruction Manual carefully when replacing the cable assembly in the field.         5. Maintain high levels of precision and accuracy using
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PHYSICAL CHARACTERISTICS DIMENSIONS WEIGHT CASE MATERIAL MOUNTING [3] CALIBRATION SUPPLIED: SENSITIVITY TRANSVERSE SENSITIVITY FREQUENCY RESPONSE ACCESSORIES Model 3006-120 (10 ft) P/N 31836 CABLE ASSE MODEL SOURCESSORIES MODEL SUPPLIED: MODEL SUPPLIED: SENSITIVITY FREQUENCY RESPONSE ACCESSORIES MODEL 3006-120 (10 ft) CABLE ASSE MODEL SUPPLIED: MODEL SUPP	gm (oz) mV/g % % MBLY [4] JOL UNTING BLOCK OUNTING KIT	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.         4. Follow the Instruction Manual carefully when replacing the cable assembly in the field.         5. Maintain high levels of precision and accuracy using Endevco's inside sales force at 800-982-6732 for recommended intervals, pric-
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PHYSICAL CHARACTERISTICS         DIMENSIONS         WEIGHT         CASE MATERIAL         MOUNTING [3]         CALIBRATION         SUPPLIED:         SENSITIVITY         TRANSVERSE SENSITIVITY         FREQUENCY RESPONSE         ACCESSORIES         Model 3006-120 (10 ft)         P/N 31836         CALIBATION         SUPPLIED:         SENSITIVITY         FREQUENCY RESPONSE         ACCESSORIES         Model 3006-120 (10 ft)         CABLE ASSEI         P/N 31836         TRIAXIAL MO         P/N 31849         ADHESIVE MP         P/N 1849         ADHESIVE MP         1. Excessive current supply may cause accelerometer.         2. Short duration shock pulses, such as	gm (oz) mV/g % % MBLY [4] OOL UNTING BLOCK OUNTING KIT C ADAPTOR Permanent damage to s those generated by	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.         4. Follow the Instruction Manual carefully when replacing the cable assembly in the field.         5. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 800-982-6732 for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.         ISOTRON (each channel)       Constant Or + Voltage Supply
PHYSICAL CHARACTERISTICS         DIMENSIONS         WEIGHT         CASE MATERIAL         MOUNTING [3]         CALIBRATION         SUPPLIED:         SENSITIVITY         TRANSVERSE SENSITIVITY         FREQUENCY RESPONSE         ACCESSORIES         Model 3006-120 (10 ft)         CABLE ASSEI         P/N 31836         COPTIONAL ACCESSORIES         Model 2950M16         TRIAXIAL MO         P/N 31849         ADHESIVE MP         P/N 31849         ADHESIVE MP         NOTES         1.       Excessive current supply may cause accelerometer.         2.       Short duration shock pulses, such as metal-to-metal impacts, may excite the supple of the superior of the supe	mV/g % % % MBLY [4] OOL UNTING BLOCK OUNTING KIT C ADAPTOR e permanent damage to s those generated by ransducer resonance and	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.         4. Follow the Instruction Manual carefully when replacing the cable assembly in the field.         5. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 800-982-6732 for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.
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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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