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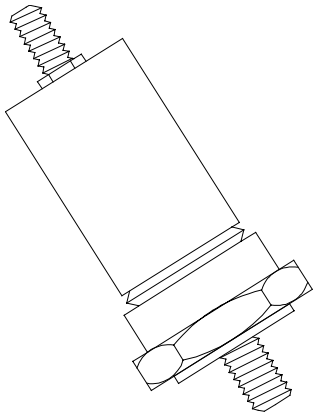
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Find the *GE / Bently Nevada 18622-050-00* at our website: *Click HERE*

Specifications and Ordering Information

23732 Acceleration Transducer System



Description

The 23732 Acceleration Transducer System consists of an accelerometer, interconnect cable, and interface module. It is intended for critical machinery applications where casing acceleration measurements are required, such as gear mesh monitoring.

⚠ Caution

If housing measurements are being made for overall protection of the machine, thought should be given to the usefulness of the measurement for each application. Most common machine malfunctions (imbalance, misalignment, etc.) originate at the rotor and cause an increase (or at least a change) in rotor vibration. In order for any housing measurement alone to be effective for overall machine protection, a significant amount of rotor vibration must be faithfully transmitted to the bearing housing or machine casing, or more specifically, to the mounting location of the transducer.

In addition, care should be exercised in the physical installation of the transducer. Improper installation can result in a decrease of the transducer amplitude and frequency of the transducer amplitude and frequency response and/or the generation of signals which do not represent actual machine vibration.

Upon request, Bently Nevada can provide engineering services to determine the appropriateness of housing measurements for the machine in question and/or to provide installation assistance.

Note: For most applications, the newer 330400 or 330425 accelerometers represent a superior choice, and are compatible with most installations where the 23732 would be used. See Specifications and Ordering Information (p/n 141638-01), and consult your local Bently Nevada Sales or Service Professional.

Specifications

Output

Accelerometer

Sensitivity:	25 mV/g (2.55 mV/m/s^2) ±5%
Acceleration Range:	75 g (735 m/s^2) peak

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Frequency Response:	10 Hz to 20 kHz (600 cpm to 1.2 million cpm) ±3 dB, 30 Hz to 10 kHz (1800 cpm to 600,000 cpm) ±5%.
Mounted Resonant Frequency:	30 kHz minimum
Amplitude Linearity:	±1% to 50 g (490 m/s^2) peak. ±5% to 75 g (735 m/s^2) peak, tested at a single frequency between 100 Hz and 500 Hz per ANSI S2.11-1969.
Electrical Isolation:	Case is internally connected to system common. Isolation from machine case is provided by a built-in isolator.
Shock Survivability:	±5000 g (±49,050 m/s^2) peak

Environmental Limits

Accelerometer

Operating and Storage Temperature:	-29°C to +121°C (-20°F to +250°F)
Relative Humidity:	To 95%, noncondensing

Physical

Accelerometer

Mounted Height:	45 mm (1.8 in)
Mounting Surface:	17.5 mm diameter (0.69 in)
Mounting Thread:	1/4-in 28 UNF x 7.9 mm (0.31 in) long
Hex:	19.0 mm (0.75 in) flats
Weight:	60 g (2.1 oz)
Case Material:	316L stainless steel

Input

Interface Module

Power Requirements:	-18 to -24Vdc at 15 mA maximum; 10 mA typical.
Leadwire Length:	305 metres (1,000 feet) maximum between I/F Module and 3300 monitor.

Output

Interface Module

Sensitivity:	100 mV/g (10.2 mV/m/s^2) nominal.

Environmental Limits

Interface Module

Operating and Storage Temperature:	-40°C to +100°C (-40°F to +212°F)
Relative Humidity:	To 95%, noncondensing
Weight:	170 g (6 oz)

Ordering Information

23732-01 Accelerometer

23733-03 Interface module

18622-AXXX-BXX Interconnect cable
Option Descriptions

A: Cable Length Option	Order in increments of 1 foot (0.3 metre). **Minimum: 0 0 1** = 1 ft (0.3 m). **Maximum: 3 0 0** = 300 ft (91 m).
B: Armor/cable Option	**0 0** Without armor, with Teflon® cable **0 1** With armor, with Teflon® cable **0 2** Without armor, with Tefzel® cable **0 3** With armor, with Tefzel® cable

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Accessories

37439-01	Accel mounting base for the Standard Accelerometer.
81173-01	Standard Accelerometer Environmental Boot.
37631-01	Installation Tool.
81807-01	Standard Accelerometer Mount, glue-on version.
04590016	Standard Accelerometer Mount, Epoxy resin.
49560-01	Handheld Accelerometer

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Dimensional Drawing

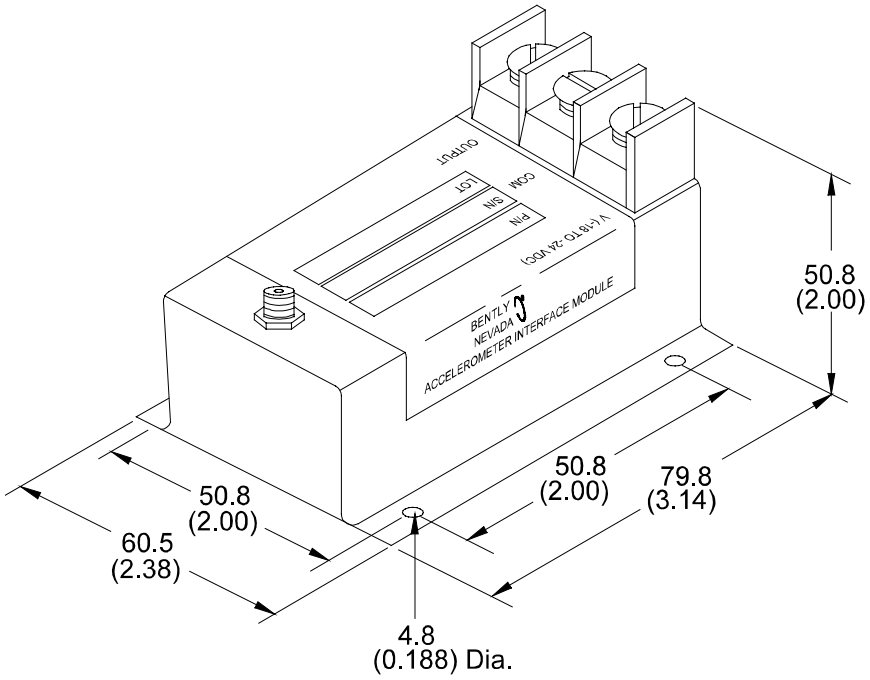


Figure 1: Accelerometer Interface Module Dimensional Drawing

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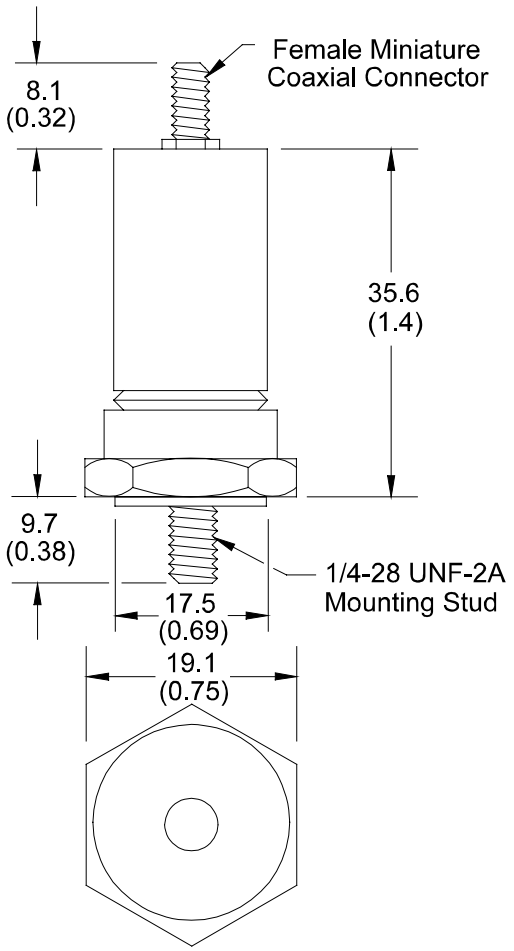


Figure 2: 23732 Accelerometer Dimensional Drawing
Dimensions are in millimetres (inches)

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