

Bently Nevada 200350&200355 Series Service Manual

200350-09-00-01

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. :200350-09-00-01

Product type : 200350 Accelerometers

Made in U.S.A

Mounting Stud : 09= No mounting stud

Tolerance : 00 = 100 mV/g $\pm$ 20%

Agency Approvals Option : 01= CSA, ATEX, IECEx

Hex Size : 11/16" (1.8 cm)

Height : 1.65" (4.24 cm)

Weight : 0.051 Kg

Sensitivity 100 mV/g $\pm$ 20% (10.2 mV/m/s² $\pm$ 20%)

Frequency Range cpm ($\pm$ 3 dB) 30-600,000 (0.5-10,000Hz)

Measurement Range $\pm$ 50g

Transverse $\leq$ 7%

Amplitude Linearity $\pm$ 1%

Mounted Resonant 1500 kcpm

Frequency (25 kHz)

Broadband Electrical Noise (1-10kHz) $\square$ 350 μ g (3,434 μ m/s²)

Output Bias Voltage $\square$ 8 to 12 VDC

Excitation Voltage $\square$ 18 to 28 VDC

Constant Current Excitation $\square$ 2 to 20 mA

Settling Time (within 1% of bias) $\square$ 2.0 sec

Output Impedance $\square$ <150 ohms

Discharge Time Constant $\square$ $\geq$ 0.3 sec

Electrical Isolation (Case) $\square$ >108 ohms

Operating

Temperature Range

-65°F to +250 °F

(-54°C to +121 °C)

Shock Survivability 5,000 g pk

Relative Humidity 100% relative, condensing, non-submerged

Enclosure Rating IP68

Mounting Thread 1/4-28 Female

Mounting Torque (Maximum) 2 to 5 ft-lb (2.7 to 6.8 N-m)

Sensing Element Ceramic

Sensing Geometry Shear

Housing Material Stainless Steel

Sealing Welded Hermetic

Electrical Connector 2-Pin Mil-C-5015

Electrical Connection Position Top

