

# Bently Nevada 200350&200355 Series Service Manual

200350-09-00-CN

## 1. Description

Manufacturer : Bently Nevada

## 3. Product Information

Manufacturer : Bently Nevada

Product No. :200350-09-00-CN

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 : CN=Country Specific

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/s<sup>2</sup>  $\pm$ 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  $\mu$ g (3,434  $\mu$ m/s<sup>2</sup>)

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

