Bently Nevada 200350&200355 Series Service Manual

200350-00-00-01

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. :200350-00-00-01

Product type : 200350 Accelerometers

Made in U.S.A

Mounting Stud : 00 = ¼-28 SS w/ Brass tip, 0.5”

Tolerance : 00 = 100 mV/g ± 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±20% (10.2 mV/m/s^2 ±20%)

Frequency Range cpm (±3 dB) 30-600,000 (0.5-10,000Hz)

Measurement Range ±50g

Transverse ≤7%

Amplitude Linearity ±1%

Mounted Resonant 1500 kcpm

Frequency (25 kHz)

Broadband Electrical Noise (1-10kHz)□350 µg (3,434 µm/s2)

Output Bias Voltage□ 8 to 12 VDC

Excitation Voltage□18 to 28 VDC

Constant Current Excitation□2 to 20 mA

Settling Time (within 1% of bias)□2.0 sec

Output Impedance□<150 ohms

Discharge Time Constant□≥0.3 sec

Electrical Isolation (Case)□>108 ohms

Operating

Temperature Range

-65°F to +250 ºF

(-54°C to +121 ºC)

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