200350 AND 200355 ACCELEROMETERS

Product Data Sheet

200355-00-00-00

Constant-current piezoelectric accelerometer

SENSITIVITY	FREQUENCY SPAN AT +/-3 DB	ACCELERATION RANGE	TRANSVERSE RESPONSE
100 mV/g +/-5%	**0.2 Hz to 10 kHz**	**+/-50 g**	**5% maximum**

Bently Nevada 200355-00-00-00 is a constant-current piezoelectric accelerometer for case-mounted vibration measurements. Its 100 mV/g output has a +/-5% sensitivity tolerance and covers frequencies from 0.2 Hz to 10 kHz at the published +/-3 dB limits.

01 TECHNICAL DATA

Sensitivity	100 mV/g +/-5%
Frequency span at +/-3 dB	0.2 Hz to 10 kHz
Acceleration range	+/-50 g
Transverse response	5% maximum
Amplitude linearity	+/-1%
Mounted resonance	20.8 kHz
Broadband electrical noise	50 ug, 1-10 kHz
Output bias voltage	8 to 12 V DC
Excitation voltage	18 to 28 V DC
Constant excitation current	2 to 20 mA

Bently Nevada 200350 and 200355 Accelerometers Datasheet 164804 Rev. T, applicable specification, ordering and dimension

02 ADDITIONAL PRODUCT DATA

Settling to 1% of bias	5 seconds maximum
Output impedance	Below 100 ohm
Enclosure rating	IP68
Mounting stud	1/4-28 stainless steel with brass tip, 0.5 in
Approval selection	00: no approvals

03 PRODUCT FUNCTION

The welded stainless steel case contains a ceramic shear sensing element and a top-mounted two-pin MIL-C-5015 connector. The 00 mounting selection supplies a half-inch 1/4-28 stainless steel stud with a brass tip. The unit uses 18-28 V DC excitation at a constant 2-20 mA, with an 8-12 V DC output bias.

04 SYSTEM COMPATIBILITY

Mount the sensor through its 1/4-28 base and specified stud on the intended casing location. The source gives a 2.7-6.8 N m mounting-torque range. Keep the top two-pin connector and interconnect cable in a condition consistent with the required environmental sealing.

05 REFERENCE

Bently Nevada 200350 and 200355 Accelerometers Datasheet 164804 Rev. T, applicable specification, ordering and dimensional sections.

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