IEPE ACCELEROMETERS

Product Data Sheet

AS3100S2-Z2

Side-exit IEPE accelerometer

SENSITIVITY	ACCELERATION RANGE	AMPLITUDE NONLINEARITY	FREQUENCY RESPONSE
100 mV/g +/-5% at 25 deg C	**80 g peak**	**1%**	**1-5000 Hz within +/-10%; 0.5-10000 Hz within +/-3 dB, typical**

Bently Nevada AS3100S2-Z2 is a side-exit IEPE accelerometer with an integrated amplifier and a nominal sensitivity of 100 mV/g. Its piezoelectric shear element produces an acceleration-related signal for compatible constant-current vibration inputs.

01 TECHNICAL DATA

Sensitivity	100 mV/g +/-5% at 25 deg C
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response	1-5000 Hz within +/-10%; 0.5-10000 Hz within +/-3 dB, typical
Resonant frequency	22 kHz
Transverse sensitivity	Within +/-5% of axial sensitivity
Excitation voltage	18-30 V DC
Constant-current excitation	2-10 mA
Broadband noise	700 micro-g, 2.5 Hz-25 kHz
Output impedance	100 ohm maximum

Bently Nevada IEPE Accelerometers Datasheet 124M2609 Rev. H; AS3100S2-Z2 specifications and Figure 2.

02 ADDITIONAL PRODUCT DATA

Output bias	12 V DC
Operating temperature	-55 to +120 deg C
Vibration survival	500 g peak
Shock survival	5000 g peak
Signal connector	Side-exit, two-pin MIL-C-5015

03 PRODUCT FUNCTION

The hermetically sealed 316L stainless-steel housing has a tapped 1/4-28 UNF mounting hole and a two-pin MIL-C-5015 connection. The specified excitation is 18-30 V DC at 2-10 mA, with operation from -55 to +120 deg C. The AS3100S2-Z2 table in revision H lists a mass of 145 g.

04 SYSTEM COMPATIBILITY

Use pin A for power/signal and pin B for common. The connector shell is identified as ground. The manufacturer lists shielded twisted-pair cable up to 100 ft and a 1/4-28 UNF tapped mounting hole; mounting hardware and receiving-channel settings remain separate selections.

05 REFERENCE

Bently Nevada IEPE Accelerometers Datasheet 124M2609 Rev. H; AS3100S2-Z2 specifications and Figure 2.

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