

BENTLY NEVADA TECHNICAL DOCUMENT

Product Data Sheet

200150-09-CN

01

PRODUCT IDENTIFICATION

Manufacturer	Bently Nevada
Model	200150-09-CN
Family	200150, 200155 and 200157 Accelerometers
Product type	General-purpose Accelerometer

02

VERIFIED TECHNICAL DATA

Mounting stud option	09: 3/8-24 to 3/4 NPT; 1-1/4 in hex
Approval selection	CN: China-specific approval option; verify supplied certificates
Sensitivity at 80 Hz	100 mV/g +/-12%
Measurement range	+/-25 g
Frequency range	10-1000 Hz, +/-10% relative to 80 Hz
Mounted resonant frequency	Greater than 20 kHz
Amplitude linearity	+/-2% from 1 to 10 g peak
Transverse sensitivity	7% or less

03 REMAINING TECHNICAL DATA

Settling time	300 ms or less, within 5% of bias
Excitation voltage	4.7-5.5 V DC
Quiescent current	Less than 800 microamperes
Housing and connector material	316L stainless steel

04 TECHNICAL AND APPLICATION NOTES

Bently Nevada 200150-09-CN is a general-purpose case-mounted accelerometer for the documented Trendmaster monitoring architecture. Mounting option 09 supplies a 3/8-24 to 3/4 NPT stud with a 1-1/4-inch hex, while CN identifies the country-specific approval selection. The ceramic shear element produces a differential acceleration signal with nominal 100 mV/g sensitivity. This 200150 variant has a +/-25 g range and a 10 to 1000 Hz frequency band; the different low-frequency and enveloping limits of 200155 and 200157 must not be copied onto it.

05 APPLICATIONS

- Feed a standard ProTIM velocity channel: The manufacturer pairs 200150 with the standard acceleration-to-velocity ProTIM channel. Mount it on a suitable machine casing or bearing housing and confirm that rotor vibration reaches that point. Review the interface settings and frequency response before interpreting the channel.
- Maintain a Trendmaster 2000 measurement point: The 200150 also operates with Trendmaster 2000 and the documented 200100 or 89130-01 interfaces. During replacement, retain the correct sensor type and check the 3/4 NPT mounting adaptation. Similar connectors do not make low-frequency or enveloping variants interchangeable.
- Supply a compatible 1900 monitor input: The datasheet identifies compatibility with 1900/25 and 1900/27 monitors. Use the approved interface and wiring to acquire casing acceleration for the designed monitoring function. Confirm the installation location and required signal transmission rather than selecting a point only for accessibility.

06 INSTALLATION CONTROL

Verify the 09 adapter and prepared 3/4 NPT mounting connection. Follow the complete manufacturer mounting and commissioning instructions.