Bently Nevada 190501-12-00-02

01 Verify the plate-stud execution

Compare the complete assembly

Retain the full sensor marking and verify the 3/8–24 to M8 × 1 plate-stud arrangement against the machine interface.

Record the measurement direction

Document location, axis and phase convention so a physically permitted orientation change does not reverse the intended comparison.

Machine thread	M8 × 1 through the selected plate stud
Sensor interface	3/8–24
Signal connection	MIL-C-5015 interface

Does an unchanged DC bias prove the dynamic measurement of 190501-12-00-02 is correct?

No. Bias can remain plausible while mounting, cable loading or filtering changes the dynamic response. Apply a suitable vibration reference or compare with a validated channel at the relevant frequency and direction.

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02 Prepare the mechanical transmission path

Inspect the contact surfaces

Check the plate, sensor base and casing for loose contact or damage. Avoid introducing strain that changes the apparent vibration.

Apply the specified mounting torque

Use 4.5 ±0.6 N·m and confirm stable seating. Keep cable forces from loading the sensor or mounting plate.

Mounting path	Rigid and representative machine surface
Torque	Within specified range
Repeatability	No unexplained strain-dependent signal

How should a cable extension for 190501-12-00-02 be assessed beyond its physical length?

Include cable capacitance, waveform frequency and amplitude, connector quality and the receiving input. The stated 219 m example assumes 200 pF/m, 1 kHz and 4 in/s; evaluate the actual installation rather than substituting an arbitrary cable of the same length.

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03 Qualify cable and input behavior

Assess the actual cable

Check type, capacitance, length and protection of joints. Separate the stated cable examples from the proposed installation conditions.

Preserve direction and polarity

Trace Pin A and Pin B to the receiving circuit and confirm the intended phase sign. Verify the compatible input before energization.

219 m example	1 kHz, 4 in/s, 200 pF/m assumptions
Case boundary	Electronics isolated from case
Wiring acceptance	Correct polarity and secure connector

Why can a phase comparison fail after installing 190501-12-00-02 in a permitted orientation?

Any mounting orientation is allowed, but reversing the sensing direction or connector polarity reverses the measurement sign. Reconcile both physical direction and Pin A/Pin B wiring with the reference before evaluating machine phase.

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04 Evaluate the relevant vibration spectrum

Compare slow and faster components

Check fan rotation, motor and reducer components using the appropriate response tolerance. Do not assign the resonance frequency as calibrated bandwidth.

Separate bias from dynamic proof

Confirm a plausible interface state and then test dynamic response independently at a representative frequency.

Low-frequency boundary	1.5 Hz with ±3 dB response
Tighter response region	3–900 Hz at ±1 dB
Overload review	High-frequency acceleration assessed

Can the marked approval execution of 190501-12-00-02 replace a complete hazardous-area circuit review?

No. Match the delivered marking to the required area classification and assess the compatible circuit, wiring and installation conditions. A product suffix or enclosure appearance alone does not validate the complete installed loop.

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05 Accept the installed monitoring function

Check the complete protection circuit

Where required, verify delivered approval marking and the compatible hazardous-area circuit under the approved site procedure.

Retain operating evidence

Record final mounting, channel filtering, amplitude convention and representative machine baseline before release.

Circuit suitability	Marking and installation conditions agree
Alarm basis	Application-specific baseline and processing
Release	No unresolved mechanical or electrical discrepancy

Other Bently Nevada product references

Bently Nevada 330101-00-26-05-01-05

Bently Nevada 330101-00-30-90-02-05

Bently Nevada 330101-00-55-05-11-00

Separate product references; no substitution or compatibility is implied.