Bently Nevada 190501-02-99-00

01 Retain the fan measurement reference

Record speed and structural location

Capture the operating-speed range, sensor position and sensing direction. Identify which fault-related motion should reach that casing surface.

Secure the process before removal

Place the affected monitoring function and machine in the approved maintenance state before disconnecting the sensor.

Mounting identity	3/8–24 to 1/2–20 stud
Cable execution	Included 32-foot cable
Comparison record	Speed, location and channel settings retained

What should be checked if moving the cable of 190501-02-99-00 changes the indicated vibration?

Inspect connector engagement, strain relief, shielding and mechanical force transmitted to the sensor base. Repeat the comparison with the cable secured; do not interpret a cable-dependent change as a rotor fault until the installation influence is resolved.

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02 Restore seating without adding strain

Inspect the threaded interface

Match both sides of the stud and inspect the base for damage or debris. A thread match alone does not establish rigid contact.

Tighten and support the cable

Use the specified 4.5 ±0.6 N·m mounting torque and support the cable so it does not stress the sensing body.

Seating	Firm, clean contact at the intended location
Cable routing	No transmitted pull or bending force
Hold point	Resolve looseness or damaged threads

Can the output bias of 190501-02-99-00 be used as its required supply-voltage rating?

No. Bias is the DC operating level of the signal interface, not a standalone power-input specification. Verify the compatible monitor or conditioning circuit and its approved wiring before connecting the sensor.

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03 Trace polarity through the installed lead

Verify Pin A and Pin B

Preserve the channel phase convention. Motion from base toward the top gives a positive signal at Pin A relative to Pin B.

Inspect the complete connection

Check connector engagement, shield treatment and the receiving input against the actual installed circuit; do not use bias voltage as a supply rating.

Reference polarity	Consistent from sensor to receiver
Grounding	Electronics isolated from sensor case
Interface	Compatible monitoring input verified

How should a low reading from 190501-02-99-00 be evaluated when another instrument reports high shaft vibration?

The instruments may be measuring different quantities through different mechanical paths. Compare locations, directions, frequency bands and amplitude conventions; a weak casing transmission path can produce low casing velocity without proving low shaft motion.

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04 Test the slow-speed measurement path

Exercise a relevant low frequency

Use an appropriate reference near the fan operating band. A 100 Hz check alone does not prove the low-frequency path.

Compare like amplitude quantities

Match peak/RMS convention and account for sensor response plus monitor filtering before evaluating the deviation.

90 rpm component	1.5 Hz, wide-band boundary
180 rpm component	3 Hz, tighter-band lower limit
Nominal 10 mm/s example	39.4 mV with matching convention

What is the nominal electrical magnitude for a 10 mm/s test applied to 190501-02-99-00?

It is 39.4 mV using nominal sensitivity. Keep the same peak or RMS convention at the reference and receiver, then assess deviations against the actual frequency, temperature and calibration conditions rather than a single ideal number.

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05 Release a stable operating installation

Check cable and structural influence

Verify that cable movement or mounting stress does not produce an unexplained indication. Review high-frequency components if the waveform clips.

Record representative operation

Retain final speed, mounting condition, channel settings and test response. Resolve unexplained differences before restoring protection.

Environmental check	Within specified operating limits
Signal check	No unexplained phase or amplitude change
Handover	Final settings and response retained

Other Bently Nevada product references

Bently Nevada 330101-00-15-05-11-00

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

Bently Nevada 330101-00-30-10-01-00

Separate product references; no substitution or compatibility is implied.