

Installation Identity and Scope

Bently Nevada 330525-01 is a Velomitor XA piezo-velocity sensor that integrates an accelerometer signal into velocity output. Its stainless-steel case and weatherproof connection support harsh industrial machinery monitoring.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	330525-01
Manufacturer	Bently Nevada
Hardware type	Piezo Velocity Sensor
System family	Velomitor XA Piezo-Velocity Sensor
Official source	Baker Hughes / Bently Nevada publication 141633 Rev. M

CONTROLLED ENGINEERING COPY

Confirm the 330525-01 approval option, mounting surface, orientation, connector and cable route before installation. Compare the final signal with the approved machine baseline and monitoring-channel configuration.

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330525-01

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 330525-01 marking and approval code.
2	Prepare a clean, flat and rigid mounting surface.
3	Install in the approved orientation and mounting location.
4	Use the documented connector, cable and sealing arrangement.
5	Protect the sensor from impact and connector contamination.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	330525-01
Physical interface	330525-01 Velomitor XA sensor
Companion check	Approved mounting surface and fastener
Configuration	Weatherproof connector and cable
Functional proof	Compatible monitor channel and baseline record

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Confirm Bently Nevada 330525-01.
Approval	Record the 01 approval option.
Mounting	Verify surface flatness and rigidity.
Orientation	Confirm the approved measurement axis.
Connector	Inspect sealing and strain relief.
Cable	Verify route and shield practice.
Scaling	Set 100 mV/in/s sensitivity.
Signal	Compare vibration with the baseline.

CONFIGURATION BOUNDARY

Confirm the 330525-01 approval option, mounting surface, orientation, connector and cable route before installation. Compare the final signal with the approved machine baseline and monitoring-channel configuration.

Expected Technical Values

PARAMETER	VALUE
Complete model	330525-01
Sensor type	Integrating piezoelectric accelerometer
Output sensitivity	3.94 mV/mm/s (100 mV/in/s), +/-5%
Frequency response	4.5 to 2000 Hz, +/-3 dB

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Bently Nevada 330525-01 is recorded.
Mechanical	Mounting and orientation meet the approved design.
Electrical	Cable, connector and channel scaling are correct.
Measurement	Velocity output is stable and credible.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What is Bently Nevada 330525-01?	It is a Velomitor XA piezo-velocity sensor with integrated velocity output.
What sensitivity is documented?	The datasheet lists 3.94 mV/mm/s, equivalent to 100 mV/in/s, with a +/-5% tolerance.
What frequency range is documented?	The sensor is specified from 4.5 to 2000 Hz at +/-3 dB, with a 6 to 1000 Hz precision band at +/-0.9 dB.
What is the peak velocity range?	The documented range is 1270 mm/s, or 50 in/s, peak.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 130530-0050-02	View Bently Nevada 130530-0050-02
Bently Nevada 130539-14	View Bently Nevada 130539-14
Bently Nevada 130539-15	View Bently Nevada 130539-15
Bently Nevada 130539-17	View Bently Nevada 130539-17
Bently Nevada 130539-20	View Bently Nevada 130539-20
Bently Nevada 130539-30	View Bently Nevada 130539-30
Bently Nevada 130539-34	View Bently Nevada 130539-34
Bently Nevada 130539-35	View Bently Nevada 130539-35

MANUFACTURER SOURCE RECORD

330525 Velomitor XA Piezo-Velocity Sensor Datasheet
Baker Hughes / Bently Nevada publication 141633 Rev. M

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	330525-01 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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