

330525-01

Piezo Velocity Sensor

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.

BRAND	Bently Nevada	ORIGIN	USA
MODEL	330525-01	PRODUCT	Piezo Velocity Sensor
FAMILY	Velomitor XA Piezo-Velocity Sensor	SOURCE	Baker Hughes / Bently Nevada publication 141633 Rev. M

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 531

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



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Product Overview

SYSTEM FUNCTION

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.

FUNCTION 1

Integrated velocity output

FUNCTION 2

Wide 4.5 to 2000 Hz response

FUNCTION 3

316L stainless-steel housing

FUNCTION 4

Weatherproof connector interface

TECHNICAL NOTE

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.

Technical Data and Acceptance

PARAMETER	VERIFIED 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
Precision frequency band	6 to 1000 Hz, +/-0.9 dB
Velocity range	1270 mm/s (50 in/s) peak
Amplitude linearity	+/-2% to 152 mm/s peak
Transverse sensitivity	Less than 5%
Mounted resonance	Greater than 12 kHz
Housing	316L stainless steel
Approval option	01 = CSA/NRTL/C
Country of origin	USA

ENGINEERING 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.

Acceptance Path

1 IDENTITY

Bently Nevada 330525-01 is recorded.

2 MECHANICAL

Mounting and orientation meet the approved design.

3 ELECTRICAL

Cable, connector and channel scaling are correct.

4 MEASUREMENT

Velocity output is stable and credible.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Casing vibration	Measures absolute vibration on bearing housings and machine structures.
Low-speed machinery	Provides velocity measurement where a robust piezo-velocity sensor is appropriate.
Harsh industrial areas	Uses the stainless-steel housing and documented sealed connector arrangement.
Monitoring-system retrofit	Connects to approved Bently Nevada monitoring channels with the required field wiring.

Model-Specific FAQ - Part 1

QUESTION	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.

FAQ, Related Products and Source

QUESTION	ANSWER
What material is used for the housing?	The case is 316L stainless steel.
What does option 01 identify?	For model 330525, option 01 identifies the documented CSA/NRTL/C approval selection.
How long can the connected cable be?	Baker Hughes states that approved installations can use cable runs up to 305 m, subject to the complete monitoring design.
What confirms successful commissioning?	Mounting is secure, channel scaling is correct and the measured velocity is stable and credible against the machine baseline.

MANUFACTURER SOURCE RECORD

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

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 130539-45	View Bently Nevada 130539-45
Bently Nevada 130539-50	View Bently Nevada 130539-50
Bently Nevada 130539-72	View Bently Nevada 130539-72
Bently Nevada 130539-99	View Bently Nevada 130539-99
Bently Nevada 130732-01	View Bently Nevada 130732-01
Bently Nevada 130938-01-10-01	View Bently Nevada 130938-01-10-01
Bently Nevada 133434-01	View Bently Nevada 133434-01
Bently Nevada 133819-01	View Bently Nevada 133819-01

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