

330525-00

Velomitor XA Piezo-velocity Sensor

Bently Nevada 330525-00 is a Velomitor XA piezo-velocity sensor with no agency-approval option selected. It produces a velocity signal for compatible Bently Nevada machinery-monitoring channels.

BRAND	Bently Nevada	FAMILY	Bently Nevada Velomitor XA vibration transducer system
PART	330525-00	SYSTEM ROLE	Measures casing vibration as velocity

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330525-00

MANUFACTURER SOURCE RECORD

330525 Velomitor XA Piezo-velocity Sensor Datasheet
Baker Hughes publication 141633 Rev. M

Product Overview

SYSTEM FUNCTION

Bently Nevada 330525-00 is a Velomitor XA piezo-velocity sensor with no agency-approval option selected. It produces a velocity signal for compatible Bently Nevada machinery-monitoring channels.

FUNCTION 1

Measures casing vibration as velocity

FUNCTION 2

Uses an integral piezoelectric sensing element

FUNCTION 3

Provides a rugged stainless-steel case

FUNCTION 4

Connects to the matching monitoring channel through its two-pin interface

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada Velomitor XA vibration transducer system
Primary interface	Measures casing vibration as velocity
Engineering context	330525-00 is installed only in the documented Bently Nevada Velomitor XA vibration transducer system arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.
Commissioning duty	Compare controlled vibration response and alarm behavior with the accepted baseline.

TECHNICAL NOTE

Before removing 330525-00, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	330525-00	Amplitude range	1270 mm/s peak (50 in/s peak)
Sensor type	Piezo-velocity transducer	Mounting thread	1/4-28 UNF-2A
Agency-approval option	None required	Case material	316L stainless steel
Sensitivity	3.94 mV/mm/s (100 mV/in/s)	Connector	2-pin MIL-C-5015
Frequency response	4.5 Hz to 5 kHz (+3/-10 percent)		

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/53	overspeed detection module	View 3500/53 page
3500/72M	reciprocating-rod monitor	View 3500/72M page
330101-00-08-05-02-05	8 mm proximity probe	View 330101-00-08-05-02-05 page
330103-00-04-10-02-00	metric proximity probe	View 330103-00-04-10-02-00 page
330104-00-12-10-02-00	armored proximity probe	View 330104-00-12-10-02-00 page
330105-02-12-10-02-05	reverse-mount probe	View 330105-02-12-10-02-05 page
330130-080-00-00	extension cable	View 330130-080-00-00 page
330180-50-00	Proximitor Sensor	View 330180-50-00 page

ENGINEERING BOUNDARY

Confirm 330525-00, sensor location and orientation, 1/4-28 mounting interface, 2-pin connector, cable, grounding, monitoring-channel configuration, machine state and controlled vibration-response results before commissioning.

Applications and Precautions

Common Applications

Bearing-housing vibration measurement

Measures absolute vibration at a documented machine casing location.

Pump and compressor monitoring

Provides a velocity signal for rotating-equipment condition observation.

Motor casing surveillance

Supports monitored vibration trends at an approved mounting point.

Installed sensor replacement

Restores the exact Velomitor XA position after identity and response checks.

Product Precautions

- 1

Confirm 330525-00 and the 00 approval option on the sensor marking.
- 2

Place the monitored machine and protection channel in the approved maintenance state.
- 3

Isolate the connected monitor input and protect the connector from contamination.
- 4

Record mounting location, orientation, cable route and channel identity.
- 5

Inspect the 1/4-28 mounting stud and machine surface for damage.
- 6

Fit the sensor with the approved mounting method and reconnect the documented cable.
- 7

Review channel bias, vibration value and diagnostics before machine run-up.
- 8

Compare controlled vibration response and alarm behavior with the accepted baseline.

IMPORTANT NOTICE

Confirm 330525-00, sensor location and orientation, 1/4-28 mounting interface, 2-pin connector, cable, grounding, monitoring-channel configuration, machine state and controlled vibration-response results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330525-00
Configuration	Review channel bias, vibration value and diagnostics before machine run-up.
Functional release	Compare controlled vibration response and alarm behavior with the accepted baseline.

Engineer FAQ

Q1 What identity details must be checked before 330525-00 is removed?

Confirm 330525-00, sensor location and orientation, 1/4-28 mounting interface, 2-pin connector, cable, grounding, monitoring-channel configuration, machine state and controlled vibration-response results before commissioning.

Q3 Which Bently Nevada Velomitor XA vibration transducer system interfaces must be recorded for 330525-00?

330525-00 is installed only in the documented Bently Nevada Velomitor XA vibration transducer system arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.

Q5 How should the installed configuration be restored after fitting 330525-00?

Fit the sensor with the approved mounting method and reconnect the documented cable.

Q7 What replacement records should be retained for 330525-00?

Confirm 330525-00 and the 00 approval option on the sensor marking. Inspect the 1/4-28 mounting stud and machine surface for damage.

Q2 How does 330525-00 perform its documented velomitor xa piezo-velocity sensor role?

Measures casing vibration as velocity. It produces a velocity signal for compatible Bently Nevada machinery-monitoring channels.

Q4 What isolation and ESD controls apply while handling 330525-00?

Place the monitored machine and protection channel in the approved maintenance state. Isolate the connected monitor input and protect the connector from contamination.

Q6 Which diagnostic evidence confirms that 330525-00 is recognized correctly?

Review channel bias, vibration value and diagnostics before machine run-up.

Q8 What final acceptance test is required before 330525-00 returns to service?

Compare controlled vibration response and alarm behavior with the accepted baseline.

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