

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada Velomitor XA vibration transducer system
Part number	330525-00
Product role	Measures casing vibration as velocity
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



330525-00

Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

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)		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada Velomitor XA vibration transducer system
Primary system role	Measures casing vibration as velocity
Connection boundary	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.
Controlled acceptance duty	Bearing-housing vibration measurement

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.

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	330525-00
Installed host	Bently Nevada Velomitor XA vibration transducer system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada Velomitor XA vibration transducer system
2	Piezo-velocity transducer
3	Bearing-housing vibration measurement
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada Velomitor XA vibration transducer system
Interface role	Measures casing vibration as velocity
Field / power 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 evidence	Compare controlled vibration response and alarm behavior with the accepted baseline.

Installation and Connection Checks

1

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

2

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

3

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

4

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

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	330525-00 recorded
Host / carrier	Bently Nevada Velomitor XA vibration transducer system
Physical interface	Measures casing vibration as velocity
Configuration	Review channel bias, vibration value and diagnostics before machine run-up.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	330525-00
Approved role	Bearing-housing vibration measurement
Final validation	Compare controlled vibration response and alarm behavior with the accepted baseline.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER 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
3500/25	Keyphasor module	View 3500/25 page
3500/40M	Proximitor monitor	View 3500/40M page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



330525-00