

330525-CN

Velomitor XA Piezo-velocity Sensor

Bently Nevada 330525-CN is the documented Velomitor XA Piezo-velocity Sensor for the matched Bently Nevada Velomitor XA machinery-vibration system.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada Velomitor XA machinery-vibration system
Part number	330525-CN
Product role	Exact article identity: Bently Nevada 330525-CN
Lifecycle	Installed product record

DOCUMENT SCOPE

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

MODEL-SPECIFIC ENGINEERING NOTE

Match 330525-CN to the documented host, physical interface and connection arrangement. Restore the recorded configuration and verify diagnostics and controlled channel response before release.

APTER POWER SALES TEAM

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



330525-CN

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-CN	Velocity range	1270 mm/s (50 in/s) peak
Sensor type	Velomitor XA piezo-velocity sensor	Power requirement	-22 to -30 V DC; 2.5 to 6.0 mA
Approval option	China country-specific approval	Output bias voltage	-12 ±3.0 V DC
Sensitivity	3.94 mV/mm/s (100 mV/in/s), ±5%	Operating temperature	-55 to +121 °C
Frequency response	4.5 to 2000 Hz, ±3.0 dB	Case material	316L stainless steel

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada Velomitor XA machinery-vibration system
Primary system role	Exact article identity: Bently Nevada 330525-CN
Connection boundary	Match 330525-CN to the documented host, physical interface and connection arrangement. Restore the recorded configuration and verify diagnostics and controlled channel response before release.
Controlled acceptance duty	Bearing-housing vibration monitoring

ENGINEERING BOUNDARY

Confirm 330525-CN, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

Pre-Installation Checks

1	Confirm the complete Bently Nevada 330525-CN marking and installed position.	2	Place the machine and protection channel in the approved maintenance state.
3	Isolate the circuit and apply ESD-safe handling controls.	4	Record connectors, terminals, cable route, shielding and grounding.

Documented Service Record

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

System Role and Architecture

Bently Nevada 330525-CN is the documented Velomitor XA Piezo-velocity Sensor for the matched Bently Nevada Velomitor XA machinery-vibration system.

FUNCTION 1
Exact article identity: Bently Nevada 330525-CN

FUNCTION 2
Documented component: Velomitor XA Piezo-velocity Sensor

FUNCTION 3
Installed family: Bently Nevada Velomitor XA machinery-vibration system

FUNCTION 4
Controlled replacement and verification workflow

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada Velomitor XA machinery-vibration system
2	Velomitor XA piezo-velocity sensor
3	Bearing-housing vibration monitoring
4	Match 330525-CN to the documented host, physical interface and connection arrangement. Restore the recorded configuration and verify diagnostics and controlled channel response before release.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada Velomitor XA machinery-vibration system
Interface role	Exact article identity: Bently Nevada 330525-CN
Field / power context	Use 330525-CN only with the documented Bently Nevada host system and matched interfaces. Preserve the as-found configuration during replacement and commissioning.
Commissioning evidence	Complete a controlled response and alarm test before service release.

Installation and Connection Checks

- 1

Verify the documented host, hardware execution and technical values.
- 2

Restore the approved interfaces and channel configuration.
- 3

Review bias, channel and monitor diagnostics after energization.
- 4

Complete a controlled response and alarm test before service release.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

Bearing-housing vibration monitoring
Measures casing velocity at a rigid documented sensor location.

Outdoor rotating-equipment monitoring
Uses the weatherproof XA construction with the mating cable assembly.

Pump and compressor condition monitoring
Supplies velocity data for the configured machinery-protection channel.

Velomitor sensor replacement
Restores the exact approval, mounting and signal execution after controlled maintenance.

TECHNICAL NOTE

Match 330525-CN to the documented host, physical interface and connection arrangement. Restore the recorded configuration and verify diagnostics and controlled channel response before release.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	330525-CN recorded
Host / carrier	Bently Nevada Velomitor XA machinery-vibration system
Physical interface	Exact article identity: Bently Nevada 330525-CN
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional proof	Complete a controlled response and alarm test before service release.

IMPORTANT NOTICE

Confirm 330525-CN, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	330525-CN
Approved role	Bearing-housing vibration monitoring
Final validation	Complete a controlled response and alarm test before service release.

Engineering Precautions

- 1

Confirm the complete Bently Nevada 330525-CN marking and installed position.
- 2

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

Isolate the circuit and apply ESD-safe handling controls.
- 4

Record connectors, terminals, cable route, shielding and grounding.
- 5

Verify the documented host, hardware execution and technical values.
- 6

Restore the approved interfaces and channel configuration.
- 7

Review bias, channel and monitor diagnostics after energization.
- 8

Complete a controlled response and alarm test before service release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330101-48-71-20-02-CN	Bently Nevada product	View Bently Nevada 330101-48-71-20-02-CN page
Bently Nevada 330101-00-96-20-02-CN	Bently Nevada product	View Bently Nevada 330101-00-96-20-02-CN page
Bently Nevada 330101-00-77-20-02-CN	Bently Nevada product	View Bently Nevada 330101-00-77-20-02-CN page
Bently Nevada 330102-60-90-10-02-CN	Bently Nevada product	View Bently Nevada 330102-60-90-10-02-CN page
Bently Nevada 330190-040-01-05	Bently Nevada product	View Bently Nevada 330190-040-01-05 page
Bently Nevada 330703-000-060-050-12-00	Bently Nevada product	View Bently Nevada 330703-000-060-050-12-00 page
Bently Nevada 31000-27-05-15-040-03-02	Bently Nevada product	View Bently Nevada 31000-27-05-15-040-03-02 page
Bently Nevada 330908-00-20-70-02-05	Bently Nevada product	View Bently Nevada 330908-00-20-70-02-05 page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

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



330525-CN