

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.

BRAND	Bently Nevada	FAMILY	Bently Nevada Velomitor XA machinery-vibration system
PART	330525-CN	SYSTEM ROLE	Exact article identity: Bently Nevada 330525-CN

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330525-CN

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada Velomitor XA machinery-vibration system
Primary interface	Exact article identity: Bently Nevada 330525-CN
Engineering 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 duty	Complete a controlled response and alarm test before service release.

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.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	330525-CN	Power requirement	-22 to -30 V DC; 2.5 to 6.0 mA
Sensor type	Velomitor XA piezo-velocity sensor	Output bias voltage	-12 ±3.0 V DC
Approval option	China country-specific approval	Operating temperature	-55 to +121 °C
Sensitivity	3.94 mV/mm/s (100 mV/in/s), ±5%	Case material	316L stainless steel
Frequency response	4.5 to 2000 Hz, ±3.0 dB	Environmental rating	IP65 / NEMA 4X with mating extension cable
Velocity range	1270 mm/s (50 in/s) peak	Connector	2-pin MIL-C-26482 hermetically sealed

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330703-000-050-10-12-05	Bently Nevada product	View Bently Nevada 330703-000-050-10-12-05 page
Bently Nevada 330902-00-38-05-02-05	Bently Nevada product	View Bently Nevada 330902-00-38-05-02-05 page
Bently Nevada 330104-01-09-10-11-05	Bently Nevada product	View Bently Nevada 330104-01-09-10-11-05 page
Bently Nevada 330104-00-05-90-02-05	Bently Nevada product	View Bently Nevada 330104-00-05-90-02-05 page
Bently Nevada 330101-00-25-05-01-05	Bently Nevada product	View Bently Nevada 330101-00-25-05-01-05 page
Bently Nevada 330102-00-40-10-11-05	Bently Nevada product	View Bently Nevada 330102-00-40-10-11-05 page
Bently Nevada 330930-065-03-00	Bently Nevada product	View Bently Nevada 330930-065-03-00 page
Bently Nevada 330103-00-10-10-12-05	Bently Nevada product	View Bently Nevada 330103-00-10-10-12-05 page

ENGINEERING BOUNDARY

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

Applications and Precautions

Common Applications

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.

Product 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.

IMPORTANT NOTICE

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

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330525-CN
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional release	Complete a controlled response and alarm test before service release.

Engineer FAQ

Q1 How is Bently Nevada 330525-CN identified?

Match the complete order number 330525-CN and documented product designation.

Q3 What records precede removal of Bently Nevada 330525-CN?

Record position, connections, cable route, configuration and diagnostics.

Q5 Which values govern Bently Nevada 330525-CN?

Complete order number: 330525-CN; Sensor type: Velomitor XA piezo-velocity sensor; Approval option: China country-specific approval.

Q7 Which diagnostics follow fitting Bently Nevada 330525-CN?

Review channel, bias and monitor diagnostics after controlled energization.

Q2 Which host accepts Bently Nevada 330525-CN?

Use only the documented Bently Nevada Velomitor XA machinery-vibration system execution.

Q4 How is Bently Nevada 330525-CN isolated?

Secure the machine, isolate the loop and apply ESD controls.

Q6 How is Bently Nevada 330525-CN compatibility checked?

Match the host, physical interface, cable or terminal execution and system configuration.

Q8 What releases Bently Nevada 330525-CN to service?

A documented controlled response and alarm test with no active fault.

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