

INDUSTRIAL AUTOMATION PRODUCT

330500-07-00

Velomitor piezo-velocity sensor

Bently Nevada 330500-07-00 is a solid-state piezo-velocity sensor for absolute bearing-housing, casing or structural vibration. This ordering code supplies the 3/8-16 UNC mounting adaptor and no agency approval option.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
Complete model	330500-07-00
Product role	Velomitor piezo-velocity sensor
System family	330500 Velomitor
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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330500-07-00

Technical Specifications

PARAMETER	VERIFIED VALUE
Measured quantity	Absolute vibration velocity
Mounting adaptor	3/8-16 UNC
Agency approval	Not required
Sensor technology	Piezoelectric with embedded solid-state electronics
Connector	Two-pin MIL-C-5015
Mounting orientation	Vertical, horizontal or other angle
Relative humidity	To 100% non-submerged
Case material	316L stainless steel

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Mount 330500-07-00 rigidly on the documented machine surface and record its orientation, polarity and cable route. Verify power, bias and velocity response at the monitor before enabling protection functions.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete 330500-07-00 marking before work.
2	Record the sensor axis, polarity and mounting location.
3	Prepare a rigid, clean mounting surface.
4	Use the 3/8-16 UNC adaptor and published mounting practice.
5	Keep the two-pin connector clean and strain relieved.

System Role and Architecture

Bently Nevada 330500-07-00 is a solid-state piezo-velocity sensor for absolute bearing-housing, casing or structural vibration. This ordering code supplies the 3/8-16 UNC mounting adaptor and no agency approval option.

FUNCTION 1
Absolute velocity measurement

FUNCTION 2
No moving internal parts

FUNCTION 3
3/8-16 UNC mounting adaptor

FUNCTION 4
Any-angle mounting capability

Common Applications

APPLICATION	ENGINEERING CONTEXT
Bearing-housing vibration	Measures absolute casing velocity on rolling-element bearing machines.
Structural vibration	Monitors vibration on suitable rigid machine structures.
Reciprocating equipment monitoring	Feeds compatible velocity or reciprocating-velocity channels.
Legacy Velomitor replacement	Restores the exact mounting adaptor and channel polarity.

CONTROLLED ACCEPTANCE DUTY

Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete 330500-07-00 marking before work.
2	Record the sensor axis, polarity and mounting location.
3	Prepare a rigid, clean mounting surface.
4	Use the 3/8-16 UNC adaptor and published mounting practice.
5	Keep the two-pin connector clean and strain relieved.
6	Verify the monitor power and output bias before enabling alarms.
7	Do not infer displacement without accounting for integrated noise.
8	Prove velocity response and channel alarms before release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
What vibration quantity is measured by 330500-07-00?	It measures absolute velocity of the bearing housing, casing or structure.
Which mounting adaptor is included with 330500-07-00?	Option 07 specifies a 3/8-16 UNC adaptor.
May the sensor be mounted horizontally for 330500-07-00?	Yes. The solid-state design permits vertical, horizontal or other-angle mounting.
Which connector is used by 330500-07-00?	It uses a two-pin MIL-C-5015 connector.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
Does the final code request agency approval for 330500-07-00?	No. Option 00 means agency approval is not required.
Why must displacement derived from be reviewed carefully 330500-07-00?	Integration can amplify electrical and circuit noise and degrade displacement accuracy.
What mounting evidence should be retained for 330500-07-00?	Record surface preparation, adaptor, orientation, polarity and final torque practice.
What functional proof is required for 330500-07-00?	Verify bias, polarity, velocity response and configured monitor alarms.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 200155-02-cn	Open product page
Bently Nevada 200350-02-00-00-00	Open product page
Bently Nevada 200350-02-00-01	Open product page
Bently Nevada 200350-02-00-cn	Open product page
Bently Nevada 200350-12-00-cn	Open product page
Bently Nevada 200355-00-00-00	Open product page
Bently Nevada 21000-00-00-00-000-00-02	Open product page
Bently Nevada 21000-00-00-00-039-03-02	Open product page

MANUFACTURER SOURCE RECORD

330500 Velomitor Piezo-velocity Sensor Datasheet
Baker Hughes publication 141632 Rev. V

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