

330500-02-CN

330500 Velomitor Piezo-velocity Sensor

CONTROLLED ENGINEERING COPY

Mount 330500-02-CN on a clean prepared surface using the M8 x 1 adapter and documented torque. Preserve connector polarity, route the cable away from mechanical strain and verify bias voltage plus vibration response before enabling alarms.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	330500-02-CN
Manufacturer part	330500-02-CN
Hardware type	330500-02-CN
System family	Bently Nevada 330500 Velomitor Piezo-velocity Sensor



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 1

Verify the full 330500-02-CN marking and M8 x 1 adapter before disturbing the installed sensor.
- 2

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

Clean the mounting surface and adapter threads without damaging the sensor base.
- 4

Apply the documented mounting torque and do not use the connector body as a tightening point.
- 5

Preserve Pin A and Pin B polarity when reconnecting the two-pin MIL-C-5015 cable.

MATCHED HARDWARE

- M8 x 1 mounting point
- Two-pin MIL-C-5015 mating cable
- Compatible Bently Nevada monitor channel
- Prepared flat machine surface

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	330500-02-CN / 330500-02-CN recorded
Physical interface	M8 x 1 mounting point
Companion check	Two-pin MIL-C-5015 mating cable
Functional proof	Measures absolute vibration on a mounted machine surface
Application test	Bearing-housing vibration monitoring

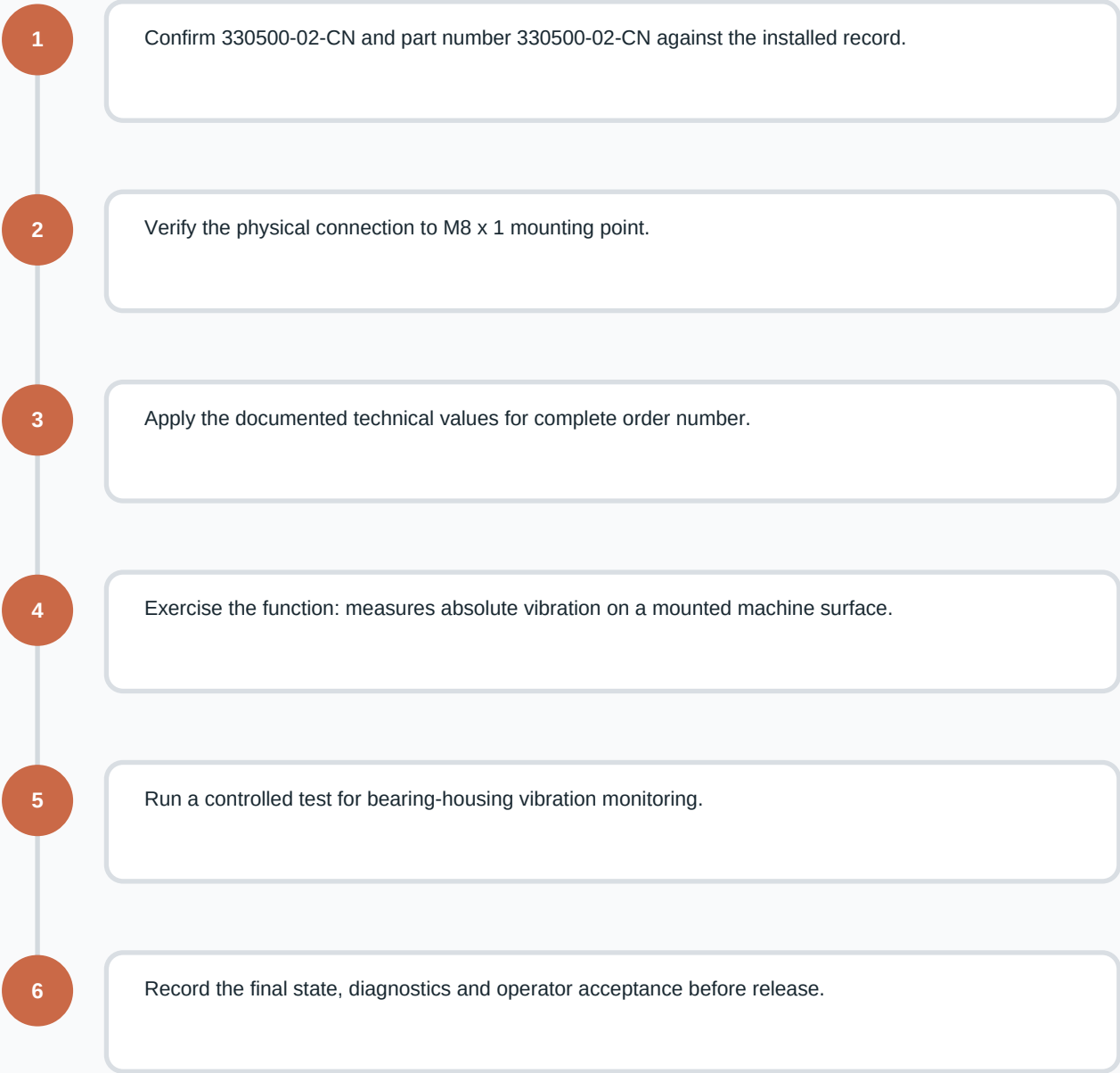
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Complete order number	330500-02-CN
Mounting-adapter code	02
Mounting adapter	M8 x 1
Sensitivity	3.94 mV/mm/s (100 mV/in/s), +/-5%
Frequency response	4.5 Hz to 5 kHz, +/-3 dB
Precision frequency response	6 Hz to 2.5 kHz, +/-0.9 dB
Velocity range	1270 mm/s (50 in/s) peak
Amplitude linearity	+/-2% to 152 mm/s peak
Mounted resonance	Greater than 12 kHz
Output bias	-12 +/-3 V
Dynamic output impedance	Less than 2400 ohm
Noise floor	0.004 mm/s RMS nominal
Case isolation	Isolated
Operating temperature	-55 to +121 degC

FIELD NOTE

Mount 330500-02-CN on a clean prepared surface using the M8 x 1 adapter and documented torque. Preserve connector polarity, route the cable away from mechanical strain and verify bias voltage plus vibration response before enabling alarms.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	330500-02-CN / 330500-02-CN recorded
Physical interface	M8 x 1 mounting point
Companion check	Two-pin MIL-C-5015 mating cable
Functional proof	Measures absolute vibration on a mounted machine surface
Application test	Bearing-housing vibration monitoring

04 RETURN-TO-SERVICE RECORD

- ☐
- Route and clamp the sensor cable so it cannot transmit movement or impact into the housing.

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VERIFICATION RECORD

PRODUCT IDENTITY	330500-02-CN
INSTALLED POSITION	Documented Bently Nevada 330500 Velomitor Piezo-velocity Sensor position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330103-00-04-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-04-10-02-00 page
330103-00-12-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-12-10-02-00 page
330103-00-16-10-02-05	3300 XL 8 mm metric proximity probe	View 330103-00-16-10-02-05 page
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	View 330106-05-30-05-02-00 page
330130-045-00-00	3300 XL standard extension cable	View 330130-045-00-00 page
330130-080-02-05	3300 XL extension cable	View 330130-080-02-05 page
330850-50-00	3300 XL NSv extension cable	View 330850-50-00 page
330171-00-12-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-50-01-05 page

SOURCE IDENTIFIERS

Bently Nevada 330500 Velomitor Piezo-velocity Sensor Datasheet
141632 Rev. V

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