Bently Nevada 330106-05-30-15-02-CN

COMPLETE PRODUCT INFORMATION

Bently Nevada 330106-05-30-15-02-CN is an M10 x 1 reverse-mount 3300 XL 8 mm probe with a 1.5 m standard ClickLoc lead. Its matched transducer system measures shaft-relative vibration and position.

Complete selected identity

Base 330106-05-30	Fixed reverse-mount M10 x 1 execution
CC15	1.5 m standard electrical probe lead
DD02	Miniature ClickLoc; protector not included
EE CN	China-specific approval selection

Channel arrangement

Sleeve-mounted probe	**Matched extension**	**Conditioner and monitor**
Reverse-mount sensing position	Complete selected electrical length	Displacement to channel interpretation

Sleeve-mounted sensing

Use the reverse-mount execution in an engineered probe sleeve that provides the intended support and orientation.

Radial shaft-motion channels

Measure shaft movement relative to a fluid-film bearing through a matched 3300 XL 8 mm displacement chain.

Axial conductive targets

Read static target position when the receiving monitor and target geometry are configured for that measurement.

Protected reference installations

Supply an appropriate speed or phase-reference channel from the selected target feature and approved installation arrangement.

Electrical chain choices

5 m electrical chain	1.5 m probe + 3.5 m extension; matching 5 m sensor
9 m electrical chain	1.5 m probe + 7.5 m extension; matching 9 m sensor

Integration note

Use the reverse-mount case torque and a matched 5 m or 9 m electrical chain. The 1.5 m probe lead requires the selected 3.5 m or 7.5 m extension; CN approval is assessed from the installed marking and circuit.

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Probe execution

Probe Family	3300 XL 8 mm
Mounting Thread	M10 x 1
Construction	Reverse mount
Total Probe Length	15 = 1.5 m
Connector	02 = miniature coaxial ClickLoc; no protector
Cable Type	Standard; 75 ohm triaxial; FEP insulation
Agency Approval Option	CN = China-specific approval selection
Probe Tip Material	Polyphenylene sulfide (PPS)
Probe Case Material	AISI 303 or 304 stainless steel

Selected extension pairing

5 m electrical chain	1.5 m probe + 3.5 m extension; matching 5 m sensor
9 m electrical chain	1.5 m probe + 7.5 m extension; matching 9 m sensor

Signal and calibrated response

Connector Material	Gold-plated brass or beryllium copper
Probe DC resistance	7.73 +/- 0.50 ohm
Maximum Connector Torque	0.565 N m
Reverse case torque, recommended	7.5 N m; reverse mount
Probe operating / storage	-52 to +177 deg C
System linear range	2 mm; approximately 0.25 to 2.3 mm
System scale factor	7.87 V/mm (200 mV/mil) nominal
Radial gap setting	-9 VDC nominal
System frequency response	0 to 10 kHz; +0 / -3 dB

Monitor field circuit

The recommended field cable is a shielded three-conductor triad with tinned wiring. Use 0.2 to 1.5 square mm (16 to 24 AWG) conductors and the documented frequency-response curves for the installed sensor-to-monitor run.

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Conditioner data

Calibration Target	AISI 4140 steel
Matched chain length	5 m with 3.5 m extension; 9 m with 7.5 m extension
Conditioner maximum current	12 mA
Non-incendive supply	-17.5 to -26 VDC; per drawing 140979
Supply with barriers	-23 to -26 VDC
Conditioner output resistance	50 ohm
Conditioner housing	A308 aluminum
Conditioner operating	-52 to +100 deg C

01. Verify the fixed 330106-05-30 reverse-mount interface and receiving M10 x 1 support.

02. Pair the 1.5 m lead with a selected 3.5 m or 7.5 m extension for the matching 5 m or 9 m sensor.

Service and target details

Conditioner storage	-52 to +105 deg C
Reverse case torque, maximum	22.6 N m; reverse mount
Extension bend radius	25.4 mm
Extension capacitance	69.9 pF/m typical
Mounting prefix	330106-05-30
3.5 m extension Rcore	0.77 +/- 0.12 ohm
7.5 m extension Rcore	1.65 +/- 0.25 ohm
Minimum flat target	15.2 mm
Recommended shaft diameter	76.2 mm

03. Use 7.5 N m recommended reverse-mount case torque and keep within the 22.6 N m maximum.

04. Protect the standard ClickLoc junction and insulate it from ground; the selected code has no connector protector.

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What installation structure is identified by 330106-05-30 in 330106-05-30-15-02-CN?

The fixed prefix identifies the M10 x 1 reverse-mount 8 mm execution. Use the corresponding receiving probe-sleeve arrangement; do not decode 05 and 30 with the adjustable forward-mount AA/BB table.

Can the 1.5 m lead of 330106-05-30-15-02-CN be used with the probe-only 1 m sensor?

The 1 m sensor configuration is a 1 m probe only. This 1.5 m execution instead needs the selected 3.5 m or 7.5 m extension to complete a 5 m or 9 m system.

Reference calibration condition

The standard reference uses a complete 3300 XL 8 mm chain, AISI 4140 steel target, -24 VDC supply, 10 kohm load and components between +18 and +27 deg C unless stated otherwise. A different target calibration changes the applicability of the accuracy and interchangeability statements.

Which resistance values belong to the extensions paired with 330106-05-30-15-02-CN?

The 3.5 m extension has nominal center-conductor resistance 0.77 +/- 0.12 ohm; the 7.5 m extension has 1.65 +/- 0.25 ohm. These are extension center-to-center values, separate from the probe center-to-outer resistance.

Why is the usual forward-mount case torque inappropriate for 330106-05-30-15-02-CN?

Reverse-mount probes have 7.5 N m recommended case torque and 22.6 N m maximum. The standard fully supported forward-mount row gives different values and must not be transferred to this execution.

Is FluidLoc normally required by the sleeve arrangement used with 330106-05-30-15-02-CN?

The ordering notes state that FluidLoc is unnecessary for most 330105/330106 installations because of the probe sleeve. This -02 execution uses standard cable; assess the application before selecting a separate FluidLoc option.

05. Treat CN marking and the actual circuit approval separately from mechanical sleeve fit.

06. Check target geometry and probe separation before interpreting calibration or adjacent-channel interaction.

07. Keep the standard probe, extension and Proximitor within their separate temperature and accuracy conditions.

08. Check the loaded negative DC supply and both static position and dynamic channel behavior before release.

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Where is the CN approval availability of 330106-05-30-15-02-CN established?

The country-specific guide lists CN for base 330106. CN covers applicable China hazardous-area requirements, while the actual product marking and associated circuit establish the permitted installed use.

What target geometry limits apply to a channel containing 330106-05-30-15-02-CN?

The datasheet specifies a 15.2 mm minimum flat-target diameter and a 76.2 mm recommended minimum shaft diameter. Smaller shafts can alter the scale factor; use the appropriate target calibration.

Related proximity portfolio

Bently Nevada 330104-00-24-10-02-00	Related 3300 XL probe; compare complete execution
Bently Nevada 330103-00-14-10-01-00	Related 3300 XL probe; compare complete execution

How can adjacent probes affect measurements made with 330106-05-30-15-02-CN?

At the center of the linear range, maintain the stated separation guidance: generally 40 mm for axial position and 38 mm for radial vibration, to limit cross-talk to 50 mV or less under the documented shaft conditions.

Related proximity portfolio

Bently Nevada 330103-03-06-05-02-00	Related 3300 XL probe; compare complete execution
Bently Nevada 330106-05-30-05-02-CN	Related 3300 XL probe; compare complete execution
Bently Nevada 330103-00-03-05-02-00	Related 3300 XL probe; compare complete execution
Bently Nevada 330103-00-04-05-02-05	Related 3300 XL probe; compare complete execution

Manufacturer references

3300 XL 8 mm Proximity Transducer System | 141194 Rev. AN	Ordering p. 14; resistance and power p. 4; accuracy p. 5; target geometry p. 6; hardware pp. 7-8; temperature and seal p. 9.
Approvals Quick Reference Guide | 108M1756 Rev. AV	CN scope p. 10 and 330106 option availability p. 27. Use actual marking and the approved circuit for the installed rating.

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