Bently Nevada 330910-00-12-10-02-00 is an armored M10 x 1 proximity probe with a 1 m standard lead for the 3300 XL NSv system. A selected NSv extension and matching Proximitor complete the 5 m or 7 m channel for non-contact shaft vibration and position measurements.

Selected execution

330910	NSv probe; M10 x 1; with armor
AA00 / BB12	Retained fully threaded mechanical execution
CC10	1.0 m total probe length
DD02	Standard cable and ClickLoc; no included protector
EE00	Agency approval not required

Electrical-length selection

Probe	Extension	Proximitor
1 m armored NSv lead	4 m or 6 m NSv cable	Matching 5 m or 7 m NSv system

Armored metric routes

Use the M10 armored execution where the mounting interface and lead route call for this construction.

Small-target measurements

Apply the NSv system where constrained target or counterbore geometry has been checked against its response data.

Radial vibration channels

Measure non-contact shaft motion through a correctly selected and calibrated NSv transducer channel.

Position monitoring

Provide a static gap signal through the matched conditioner to the configured position-monitoring function.

Measurement role

The probe senses the gap to a conductive target; its companion NSv Proximitor supplies the conditioned signal to the monitor. Armor provides mechanical lead protection, while the selected extension length and target calibration determine the assembled channel configuration.

Important Notice

Keep the full AA00 / BB12 execution when selecting the mounting arrangement. Armor does not establish FluidLoc sealing or hazardous-area approval. Match the NSv electrical length and assess the actual target geometry.

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Lead and component checks

Probe length	CC10 = 1.0 m
Connector	DD02 = miniature coaxial ClickLoc, standard cable
Protector	Not included by DD02
Approval	EE00 = agency approval not required
Probe resistance	4.2 +/-0.5 ohm; center to outer conductor
Cable	75 ohm coaxial; FEP insulated

Construction and support

Tip material	Polyphenylene sulfide (PPS)
Case material	AISI 304 stainless steel
Case torque, nominal	11.3 N m; standard forward mounting
Case torque, maximum	33.9 N m; standard forward mounting
First three threads	7.5 N m recommended; 22.6 N m maximum

Connections and environment

Thread engagement	15 mm; matching internal fit class
Bend radius	25.4 mm
Connector limit	0.56 N m
Connector practice	Finger tight
Probe temperature	-52 to +177 deg C; operating and storage

Complete channel and conditioner

Linear range	1.5 mm; approximately 0.25 to 1.75 mm
Recommended gap	1.0 mm; recommended gap
Scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +0 / -3 dB typical
Output resistance	50 ohm
Maximum current	12 mA
Sensor operation	-52 to +100 deg C
Sensor storage	-52 to +105 deg C

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01. Use a 4 m NSv extension for a 5 m channel or a 6 m extension for a 7 m channel with this 1 m probe.

02. Check the M10 x 1 mating fit and keep thread engagement within 15 mm; retain the selected AA00 / BB12 execution.

03. Choose torque by support: normal mounting uses 11.3 N m recommended, while first-three-threads support uses 7.5 N m.

04. Route the armored lead without crushing or sustained pull; maintain a minimum 25.4 mm bend radius.

05. Tighten ClickLoc finger tight within the 0.56 N m maximum; protect the DD02 junction for the installed environment.

06. Check target and counterbore size, shaft geometry and nearby probes before relying on the nominal NSv response.

07. Measure the disconnected probe against the 4.2 +/-0.5 ohm reference; keep this separate from energized channel testing.

08. Apply the distinct probe and conditioner temperature limits; EE00 does not establish a hazardous-area approval.

Electrical-length combinations

5 m NSv system	1 m probe + 4 m extension + matching 5 m Proximitor
7 m NSv system	1 m probe + 6 m extension + matching 7 m Proximitor

Target and counterbore

For a flat target, minimum diameter is 8.9 mm and the recommended minimum is 13 mm. The counterbore minimum is 9.5 mm, with 13 mm recommended. Smaller targets or counterbores can alter scale factor and usable range; consult the geometry response curves before adopting a nominal calibration.

Temperature distinction

The probe and extension operate and store at -52 to +177 deg C. The conditioner operates at -52 to +100 deg C and stores at -52 to +105 deg C. Sustained probe exposure below -34 deg C may cause premature pressure-seal failure. Assess each installed location and containment requirement separately.

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How does the 1 m lead of 330910-00-12-10-02-00 determine the extension choice?

Use a 4 m NSv extension with a 5 m Proximitor, or a 6 m NSv extension with a 7 m Proximitor. The sum of probe and extension must match the conditioner length.

What does the armor on 330910-00-12-10-02-00 establish?

It identifies the armored probe execution. It does not select FluidLoc cable, include a DD02 connector protector, or establish an environmental sealing rating for an unprotected joint.

What resistance distinguishes the 1 m 330910-00-12-10-02-00 probe check?

The nominal center-to-outer resistance is 4.2 +/-0.5 ohm. Measure the isolated probe; do not substitute the 0.5 m probe value or an extension conductor resistance.

Which mounting checks apply to 330910-00-12-10-02-00?

Verify the M10 x 1 fit and AA00 / BB12 mechanical execution. Maximum thread engagement is 15 mm; normal forward support uses 11.3 N m recommended and 33.9 N m maximum case torque.

Related Bently Nevada monitoring portfolio

Bently Nevada 330180-51-05	Related component; verify full configuration
Bently Nevada 330103-00-06-10-02-00	Related component; verify full configuration
Bently Nevada 330104-00-06-05-02-00	Related component; verify full configuration

Component and channel records

Retain separate results for the isolated probe resistance and complete measurement-channel test. Record the selected NSv extension and matching Proximitor length together.

Document purposes

Technical Reference	Model execution, construction and system response
Installation & Commissioning Guide	Mounting, circuit and functional-acceptance workflow
Complete Product Information	Facts, applications, precautions and questions

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330910-00-12-10-02-00

What target and counterbore sizes should be reviewed for 330910-00-12-10-02-00?

The minimum flat-target diameter is 8.9 mm and the minimum counterbore is 9.5 mm; 13 mm is the recommended minimum for each. Smaller geometry changes response and requires review of the published curves.

Does the final 00 on 330910-00-12-10-02-00 prove hazardous-area suitability?

No. EE00 means agency approval not required in the ordering selection. Determine suitability from the actual installed equipment requirements and supplied markings.

What is the usable linear range of a channel containing 330910-00-12-10-02-00?

The matched NSv system has a 1.5 mm linear range, approximately 0.25 to 1.75 mm from the target, with a recommended 1.0 mm gap under the specified reference conditions.

How does 330910-00-12-10-02-00 connect to the monitor?

The probe connects through the selected NSv extension to the matching Proximitor. The separate conditioner-to-monitor circuit uses field wiring; its length is not part of the 5 m or 7 m transducer electrical length.

Related Bently Nevada monitoring portfolio

Bently Nevada 330104-00-10-10-02-00	Related component; verify full configuration
Bently Nevada 330103-03-08-10-01-00	Related component; verify full configuration
Bently Nevada 330103-04-10-10-02-05	Related component; verify full configuration

Recommendation scope

The linked products are broader Bently Nevada monitoring portfolio references. Their family, thread, electrical length and approval choices must be checked independently. A recommendation link does not establish compatibility with an NSv channel or a replacement for this model.

Manufacturer references

3300 XL NSv Proximity Transducer System, 147385 Rev. R: component resistance and system performance p. 3; target geometry p. 4; materials and torque p. 5; engagement and temperature p. 6; probe and extension ordering pp. 11-13. Site checks organize these facts for the installed machine procedure.

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