Bently Nevada 330905-00-03-10-02-00

COMPLETE PRODUCT INFORMATION

Bently Nevada 330905-00-03-10-02-00 is a standard-mount 3300 NSv proximity probe with an M10X1 case, 0 mm unthreaded length, 30 mm overall case length, 1.0 m standard cable and a miniature coaxial ClickLoc connector. It is the sensing element in a 3300 XL NSv proximity-transducer chain for tight-clearance rotating-machinery measurements.

Exact configuration

330905	3300 NSv probe; M10X1 thread; without armor
00	0 mm unthreaded length
03	30 mm overall case length
10	1.0 m total probe length
02	Miniature coaxial ClickLoc connector; standard cable; no connector protector
00	Agency approval not required

NSv measurement chain

Machine target Small shaft or flat target within the documented NSv geometry	**330905-00-03-10-02-00** Compact 30 mm M10X1 non-armored probe with 1.0 m standard cable	**Extension + Proximitor + monitor** Completes the 5 m or 7 m NSv chain and conditions the proximity signal

Compressor radial vibration

Observe small shafts where tight counterbore or side-view clearance limits larger probes.

Axial position monitoring

Measure thrust position on a suitable flat target in a documented NSv transducer chain.

Tachometer and zero speed

Provide a non-contacting proximity input for speed-related monitoring where the target geometry is suitable.

Phase reference measurement

Supply a Keyphasor phase-reference signal from an approved rotating target arrangement.

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Probe construction and cable

Mounting Form	Standard mount
Probe Thread	M10X1
Armor	Without armor
Unthreaded Length	0 mm
Overall Case Length	30 mm
Total Probe Length	1.0 m (39 in)
Connector and Cable	Miniature coaxial ClickLoc connector; standard cable
Agency Approval Option	00 = Not required
Probe Tip Material	Polyphenylene sulfide (PPS)
Probe Case Material	AISI 304 stainless steel
Probe Cable	75 ohm coaxial, FEP insulated

Torque and engagement

M10X1 case	11.3 N m recommended; 33.9 N m maximum
First three threads	7.5 N m recommended; 22.6 N m maximum
ClickLoc connector	Finger tight recommended; 0.56 N m maximum
M10X1 engagement	15 mm maximum; verify tapped depth

Cable and connector

Option 02 supplies the standard cable and ClickLoc connector without the connector protector. Keep the connection clean and dry, lock it fully, and apply only the connector torque limit; the much larger probe-case torque does not apply to the connector.

Related Bently Nevada models

Bently Nevada 330101-00-13-10-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330505-02-02-02	Related NSv component or probe; compare the complete execution

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Environmental and mounting limits

Connector Material	Gold-plated brass
Probe Lead Tensile Strength	220 N (50 lb), maximum rated
Minimum Bend Radius	25.4 mm (1.0 in)
Maximum Thread Engagement	15 mm for M10X1
Probe Operating Temperature	-52 to +177 deg C
Probe Storage Temperature	-52 to +177 deg C
Pressure Seal	Viton O-ring; probes are not pressure tested before shipment

Pressure-seal boundary

The probe uses a Viton O-ring pressure seal and is not pressure tested before shipment. Sustained exposure below -34 deg C may shorten seal life even though the listed probe temperature range extends to -52 deg C. Review process-media containment separately.

Integration boundary

NSv response depends on the matched probe, extension cable, Proximitor Sensor, target and installed gap. Do not transfer scale factor or system length from a similar probe.

Installed acceptance path

Identity	All six model-code fields match the unit and work order
Mounting	M10X1 engagement is no more than 15 mm
Routing	Bend radius remains at least 25.4 mm; cable is supported
Connection	ClickLoc joint is clean, locked and protected from liquids
System pairing	Probe, extension cable and NSv Proximitor form the approved 5 m or 7 m chain
Acceptance	Gap, target and monitor response meet the machine procedure

Related Bently Nevada models

Bently Nevada 330905-08-13-10-02-05	Related NSv component or probe; compare the complete execution
Bently Nevada 330190-035-00-00	Related NSv component or probe; compare the complete execution

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01 / Identity

Match all six ordering fields before installation; a different case, cable, connector or approval code is a different execution.

02 / Thread depth

Confirm that the mounting arrangement suits the 0 mm unthreaded section and 30 mm overall M10X1 case.

03 / Case torque

Limit M10X1 thread engagement to 15 mm and use the published case-torque boundary.

04 / Connector torque

Treat connector torque separately: finger tight is recommended and 0.56 N m is the published maximum.

05 / Cable route

Maintain at least the 25.4 mm cable bend radius and do not load the 1.0 m probe lead during routing.

06 / Liquid protection

Protect the ClickLoc connection against liquid entry because option 02 does not include the connector protector.

07 / Seal duty

Review pressure-seal duty and process media; the probe is not pressure tested before shipment.

08 / System pairing

Confirm target, gap, extension cable and the matching NSv Proximitor before accepting the measurement response.

Related Bently Nevada models

Bently Nevada 330103-00-14-05-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330703-000-100-10-02-00	Related NSv component or probe; compare the complete execution

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330905-00-03-10-02-00

What configuration is encoded by 330905-00-03-10-02-00?

It is a standard-mount 3300 NSv probe with an M10X1 case and no armor. The suffix selects 0 mm unthreaded length, a 30 mm overall case, a 1.0 m standard cable, a ClickLoc connector without protector, and no agency-approval option.

What M10X1 case torque applies to 330905-00-03-10-02-00?

The datasheet gives 33.9 N m as the maximum rated case torque and 11.3 N m as the recommended value. For only the first three threads, the listed maximum is 22.6 N m and the recommended value is 7.5 N m.

What cable-routing limit matters for 330905-00-03-10-02-00?

Keep the bend radius at or above 25.4 mm and avoid pulling on the 1.0 m probe lead. The maximum-rated probe-case-to-lead tensile strength is 220 N, but that rating is not a normal routing load.

Which components complete the measurement chain for 330905-00-03-10-02-00?

Use the probe with the matching 3300 NSv extension cable and 3300 XL NSv Proximitor Sensor. Confirm the complete 5 m or 7 m system length and target calibration rather than pairing parts by connector appearance alone.

Related-product boundary

Related models are portfolio references. A matching family name, connector or thread does not prove interchangeability; compare the entire ordering code and the required transducer-system length before selection.

Related Bently Nevada models

Bently Nevada 330104-03-09-10-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330780-50-CN	Related NSv component or probe; compare the complete execution

Manufacturer evidence

147385 Rev. R: NSv system purpose and applications pp. 1-2; probe materials, cable, connector, tensile and torque data p. 5; bend radius, thread engagement and probe temperature p. 6; pressure-seal conditions p. 7; ordering codes pp. 11-12; standard-mount identity p. 30; mounting notes p. 33. ApterPower installation and inspection guidance is separated from manufacturer ratings. The full ordering code controls the supplied probe execution.

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