

330910-00-10-10-01-05

3300 XL NSv M10 x 1 Armored Proximity Probe

Bently Nevada 330910-00-10-10-01-05 is the armored M10 x 1 probe configuration for the 3300 XL NSv proximity transducer system. It converts shaft-to-probe distance into the matched system signal used for vibration and position monitoring.

BRAND	Bently Nevada	FAMILY	3300 XL NSv
PART	330910-00-10-10-01-05	SYSTEM ROLE	Armored eddy-current proximity probe

MANUFACTURER SOURCE RECORD

3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R

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System identity and configuration

FIELD	VALUE	ENGINEERING SIGNIFICANCE
Base model	330910	M10 x 1 probe with stainless-steel armor
Unthreaded length	00 = 0 mm	Probe geometry selection
Overall case length	10 = 100 mm	Installed mechanical envelope
Total probe length	10 = 1.0 m	Probe cable length
Connector/cable	01	ClickLoc connector with protector; standard cable
Approval	05	Multiple approvals

The complete suffix is part of the product identity. Do not substitute a neighboring 3300 NSv configuration based only on thread size or appearance.

SYSTEM COMPONENT	FUNCTION
330910 probe	Senses distance to the conductive target without contact.
3300 NSv extension cable	Completes the specified 5 m or 7 m system length.
3300 XL NSv Proximity Sensor	Powers the probe oscillator, conditions the signal and supplies the monitor output.
Monitor/channel	Interprets the conditioned signal for machine protection or condition monitoring.

Published performance envelope

PARAMETER	DOCUMENTED VALUE
Linear range	1.5 mm; approximately 0.25 to 1.75 mm
Recommended gap setting	1.0 mm (40 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil), +12.5%/-20% over 0 C to 45 C
Deviation from best-fit straight line	Less than +/-0.06 mm (+/-2.3 mils)
Frequency response	0 to 10 kHz, +0/-3 dB typical
Minimum flat target diameter	8.9 mm; 13 mm recommended
Minimum counterbore	9.5 mm; 13 mm recommended
Field wiring	Shielded triad, maximum 305 m

Reference conditions

Published system performance assumes the documented probe, extension cable and Proximator Sensor, -24 Vdc supply, 10 kohm load, AISI 4140 steel target at least 31 mm diameter, 1.0 mm gap and 0 C to 45 C ambient unless otherwise stated.

Application context

Typical uses include radial vibration, axial position and other non-contact shaft displacement measurements where the installed target geometry and system pairing meet the documented limits.

Installation and commissioning controls

CONTROL	REQUIREMENT
Thread engagement	Do not exceed 15 mm for M10 x 1.
Probe case torque	33.9 N*m maximum; 11.3 N*m recommended.
Cable bend radius	25.4 mm minimum, with or without armor.
Connector	Seat the miniature coaxial ClickLoc connector and retain the protector.
Power	-17.5 to -26 Vdc without barriers; -23 to -26 Vdc with barriers.
Static setup	Establish nominal 1.0 mm gap with the approved target.
Cross-talk	Maintain minimum tip separation for adjacent probes.
Acceptance	Verify smooth response, monitor diagnostics and final polarity.

PRECAUTION	WHY IT MATTERS
Confirm full suffix	Mechanical length, connector and approval options are suffix-controlled.
Isolate the channel	Prevents unsafe movement and false protection action.
Protect armor and cable	Excess bending or twisting can damage the signal path.
Control mounting depth	Excessive engagement may bind the probe.
Verify target geometry	Small targets and counterbores can change scale factor.
Document final gap	Creates a repeatable commissioning baseline.

Engineering FAQ and service record

QUESTION	ANSWER
What identifies this exact probe?	The complete code 330910-00-10-10-01-05.
What thread does it use?	M10 x 1, with stainless-steel armor.
What is the cable length?	The total probe length option 10 specifies 1.0 m.
What connector is supplied?	Option 01 is a ClickLoc connector with protector on standard cable.
What gap is recommended?	1.0 mm (40 mils).
What is the documented linear range?	1.5 mm, approximately 0.25 to 1.75 mm.
What must be paired with the probe?	The documented extension cable and 3300 XL NSv Proximity Sensor.
What closes commissioning?	Recorded identity, mounting, power, gap, response and channel diagnostics.

SERVICE RECORD MINIMUM

Record the complete model, installed location, matched components, cable route, thread engagement, torque, supply voltage, field-wiring polarity, gap setting, response test and final monitor condition.

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