330104-04-10-05-01-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330104-04-10-05-01-00 is an armored M10 x 1 3300 XL 8 mm probe with 40 mm unthreaded reach, 100 mm case and 0.5 m lead.

Executive product dashboard

Balanced insertion geometry

A 40 mm unthreaded section and 100 mm case support defined sleeve and locknut arrangements.

Compact armored connection

The 0.5 m lead is mechanically protected up to the detachable system joint.

Repeatable XL service

The documented 8 mm chain supports component interchange when family and electrical length remain matched.

Exact order-code identity

Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Armor	With armor
Unthreaded length	40 mm
Overall case length	100 mm
Total probe length	0.5 m
Connector and cable option	01 - ClickLoc with protector, standard cable
Agency approval option	00 - Not required

This 330104 execution provides 40 mm of unthreaded reach within a 100 mm M10 x 1 case. Those dimensions define the installed tip and locknut relationship and must be carried into the replacement plan.

Configuration and technical capability map

Probe tip material	Polyphenylene sulfide (PPS)
Cable construction	75 ohm triaxial, FEP insulated
System scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB
Minimum cable bend radius	25.4 mm

Probe case material	AISI 303 or 304 stainless steel
System linear range	2.0 mm (80 mils), matched 3300 XL 8 mm system
Recommended radial-vibration gap	-9 V DC; approximately 1.27 mm
Standard probe temperature	-52 to +177 deg C

Installed signal or connection path



System interpretation boundary

The 0.5 m standard probe lead is enclosed in flexible stainless-steel armor and terminates in a protected ClickLoc connector. Extension-cable length is selected to complete the calibrated Proximitor Sensor chain.

System response is based on matched XL components and the specified AISI 4140 target. Final acceptance checks both physical position and the live electrical baseline rather than relying on mechanical fit alone.

Applications and installed-fit decisions

Sleeved probe locations

Use the 40 mm unthreaded reach where the approved drawing calls for this insertion geometry.

Protected local routing

The armored 0.5 m lead covers the short machine-side segment before the extension cable.

Radial vibration channels

Maintain target diameter, probe spacing and the documented operating gap.

Axial position channels

Check target travel and locknut stability before return to service.

Engineering decision matrix

How does 330104-04-10-05-01-00 differ from a longer 330104 execution?	It specifically uses 40 mm unthreaded reach and a 100 mm case; both values control installed tip position.
What should be measured before removing 330104-04-10-05-01-00?	Measure the locknut datum, insertion depth, sleeve clearance, cable route and the current electrical gap.
Why is 330104-04-10-05-01-00 supplied with armor?	The 330104 family is the armored M10 x 1 execution, providing mechanical protection around the probe lead.
What protection is included at the connector of 330104-04-10-05-01-00?	Option 01 adds a protector over the miniature ClickLoc connection on the standard cable.

Applications must be evaluated against the exact installed machine drawing, target, companion hardware and receiving channel. Related product references do not imply substitution.

Product precautions and maintenance logic

Match 40 and 100 mm values

Do not accept a visually similar M10 probe with different reach or case length.

Record the locknut datum

Measure the installed position before removing the armored probe.

Avoid armor rotation

Torque the case while keeping the lead and ferrule free from twist.

Protect the ClickLoc joint

Clean, seat and cover the connection without exceeding bend limits.

Check total system length

Select the extension cable for the installed Proximitor Sensor.

Verify static and dynamic response

Confirm gap voltage and machine signal against the accepted record.

Additional technical questions

Can 330104-04-10-05-01-00 be used in a 1 m system without an extension cable?	No. Its probe lead is 0.5 m, so the extension cable and Proximitor Sensor must be selected to create the intended system length.
Which approval claim is justified by 330104-04-10-05-01-00?	The final 00 option does not select agency approvals; use only the approvals documented for the complete supplied installation.
How should 330104-04-10-05-01-00 be checked for cable stress?	Confirm no twist at the armored ferrule, at least 25.4 mm bend radius and independent support away from the ClickLoc joint.
What commissioning result is retained for 330104-04-10-05-01-00?	Retain the as-left position, gap voltage, runout and measured vibration or position response with the complete channel identity.

Technical notes

Exact configuration	Armored M10 x 1 probe, 40 mm unthreaded length, 100 mm case, 0.5 m lead, connector protector and no approval option
Selection boundary	The 40/100 mm geometry is not interchangeable with another 330104 case without installation review
Technical reference	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN

Source record, related portfolio and contact

Manufacturer reference	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN
Applicability	Facts are limited to the exact order-code selections and stated matched-system conditions.
Public page	Exact product page linked from the first-page model title
Evidence boundary	No neighboring-model option or unsupported lifecycle conclusion is assigned to this product.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00

Discuss the exact marking and installed relationship with Apter Power.
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Use the complete marking, installed relationship, photographs and measured baseline as the service record for 330104-04-10-05-01-00.