330103-00-05-10-01-05

3300 XL 8 mm Proximity Probe

Bently Nevada 330103-00-05-10-01-05 is an M10 x 1 metric 3300 XL 8 mm proximity probe with a 50 mm case and protected 1.0 m lead.

Executive product dashboard

Metric compact mounting

The M10 x 1 case and 50 mm body suit documented metric probe locations.

Protected detachable joint

A factory-installed protector shields the finger-tight ClickLoc connection.

Unarmored flexible routing

The standard FEP lead supports controlled routing where external armor is not required.

Exact order-code identity

Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Armor	Without armor
Unthreaded length	0 mm
Overall case length	50 mm
Total probe length	1.0 m
Connector and cable option	01 - ClickLoc with protector, standard cable
Agency approval option	05 - CSA, ATEX and IECEx

This 330103 configuration uses the metric M10 x 1 probe body without cable armor. Its zero-unthreaded execution and 50 mm case must match the installed thread depth, locknut arrangement and target position.

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

Machine target > **330103-00-05-10-01-05** > **Extension cable** > **Proximitor Sensor** > **Monitor channel**

System interpretation boundary

The 1.0 m FEP-insulated lead ends in a miniature ClickLoc connector with a protector. The standard cable must be routed within the documented bend radius and combined with the correct extension cable and Proximitor Sensor length.

The 2.0 mm system range and 7.87 V/mm scale factor apply to a matched 3300 XL 8 mm chain. Set operating gap from live voltage and verify both static bias and dynamic response after service.

Applications and installed-fit decisions

Metric shaft-vibration points

Install in an approved M10 x 1 port with the required target geometry and system gap.

Compact axial-position mounts

Confirm the 50 mm case and zero-unthreaded geometry before reproducing the locknut datum.

Protected connector routing

Use the fitted protector where the probe-to-extension joint is exposed to the machinery environment.

Interchangeable XL service

Retain only approved 3300 XL 8 mm components in the calibrated signal chain.

Engineering decision matrix

Why is the zero-unthreaded geometry important for 330103-00-05-10-01-05?	It places the M10 x 1 thread immediately behind the sensing end, so the installed sleeve and locknut position must match the 50 mm case.
What is the maximum thread engagement for 330103-00-05-10-01-05?	The documented maximum for the M10 x 1 case is 15 mm; longer engagement can bind the probe.
How should the unarmored lead of 330103-00-05-10-01-05 be routed?	Maintain the 25.4 mm bend radius, provide strain relief and keep the lead away from abrasion and unsupported movement.
What does connector option 01 provide on 330103-00-05-10-01-05?	It provides the miniature ClickLoc connection with a factory-installed protector over the standard cable joint.

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

Verify the metric order code

Confirm 00, 05, 10, 01 and 05 with the full 330103 base number.

Limit M10 engagement

Keep thread engagement at or below the documented 15 mm maximum.

Support the unarmored lead

Prevent abrasion, tension and movement at the probe-case transition.

Seat ClickLoc finger-tight

Clean both connector faces and confirm the locking click before fitting the protector.

Preserve the electrical length

Match the probe, extension cable and Proximitor Sensor as one system.

Record the restored baseline

Retain gap voltage, runout and channel response after commissioning.

Additional technical questions

Which approval set is selected by 330103-00-05-10-01-05?	Code 05 selects the documented CSA, ATEX and IECEx option; installation remains subject to the approved circuit drawing.
How is the 1.0 m lead of 330103-00-05-10-01-05 matched?	Choose the extension cable and 3300 XL Proximitor Sensor so the complete electrical length equals the intended system length.
What confirms correct gap after replacing 330103-00-05-10-01-05?	Set the operating point near -9 V DC, then confirm available travel and compare runout or vibration response with the prior baseline.
Which parts of 330103-00-05-10-01-05 should be photographed before removal?	Capture the complete marking, locknut datum, thread engagement, cable route, protector and both companion-component labels.

Technical notes

Exact configuration	M10 x 1 unarmored probe, 0 mm unthreaded length, 50 mm case, 1.0 m standard lead, connector protector and multiple approvals
System boundary	Use only within a correctly matched 3300 XL 8 mm transducer chain
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 330103-00-05-10-01-05.