330104-10-16-05-01-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330104-10-16-05-01-00 is an armored M10 x 1 3300 XL 8 mm probe with 100 mm unthreaded reach, 160 mm case and 0.5 m lead.

Executive product dashboard

Deep-reach installation

The long unthreaded section positions the sensing tip through sleeves or recessed machine structures.

Armored short lead

Mechanical cable protection is combined with a compact 0.5 m probe lead.

Protected service joint

The ClickLoc connector arrives with a protector for the detachable probe-to-extension interface.

Exact order-code identity

Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Armor	With armor
Unthreaded length	100 mm
Overall case length	160 mm
Total probe length	0.5 m
Connector and cable option	01 - ClickLoc with protector, standard cable
Agency approval option	00 - Not required

The 330104 armored metric body provides 100 mm of unthreaded reach within a 160 mm case. This geometry controls the installed tip position, so sleeve depth, locknut datum and target clearance must be measured before exchange.

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 > **330104-10-16-05-01-00** > **Extension cable** > **Proximitor Sensor** > **Monitor channel**

System interpretation boundary

A 0.5 m standard FEP probe lead is protected by flexible stainless-steel armor and ends in a ClickLoc connection with protector. The extension cable completes the electrical length required by the Proximitor Sensor.

The published scale, range and linearity apply to the matched 3300 XL 8 mm system. Restore the mechanical datum first, then set live gap and verify the machine response against the accepted record.

Applications and installed-fit decisions

Recessed bearing housings

Use the 100 mm unthreaded section where the tip must pass through a documented sleeve or deep port.

Armored short-lead routing

Protect the 0.5 m probe lead before it joins the extension cable.

Metric probe replacement

Match the M10 x 1 thread, 160 mm case and locknut position exactly.

Matched transducer service

Preserve total electrical length and the approved 8 mm target calibration.

Engineering decision matrix

Why is the 100 mm unthreaded reach critical for 330104-10-16-05-01-00?	It determines where the sensing tip emerges from the sleeve or port relative to the target and cannot be replaced by a shorter geometry without review.
How much threaded case remains on 330104-10-16-05-01-00?	The overall case is 160 mm and the unthreaded section is 100 mm; verify the actual installed locknut and sleeve arrangement rather than calculating fit from one value alone.
What does the 0.5 m code mean on 330104-10-16-05-01-00?	It is the probe-lead total length. The extension cable must complete the intended Proximitor Sensor system length.
How should the armor on 330104-10-16-05-01-00 be handled during tightening?	Hold and torque the probe case only; prevent the armor and lead from twisting or carrying installation load.

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

Measure the reach datum

Record the 100 mm unthreaded section and installed insertion depth before loosening the locknut.

Confirm the 160 mm case

Check clearance through the complete sleeve and mounting structure.

Control the armored lead

Do not rotate or pull the cable while tightening the M10 body.

Fit connector protection

Seat the ClickLoc joint and install the protector without sharp bends.

Retain option 00 status

Do not claim hazardous-area approval from this order code alone.

Re-establish the gap

Use live voltage and the accepted machine baseline after mechanical installation.

Additional technical questions

Does 330104-10-16-05-01-00 carry the multiple-approval option?	No. Its final 00 code means agency approval is not required in the order code.
What is the connector arrangement on 330104-10-16-05-01-00?	Option 01 provides a standard ClickLoc cable connection with a connector protector.
How is the operating gap for 330104-10-16-05-01-00 restored?	Reproduce the mechanical datum, energize the matched 8 mm chain and adjust to the approved live gap-voltage target.
What evidence proves successful replacement of 330104-10-16-05-01-00?	Retain the as-left insertion datum, gap voltage, slow-roll runout and vibration or position response with companion-component identities.

Technical notes

Exact configuration	Armored M10 x 1 probe, 100 mm unthreaded length, 160 mm case, 0.5 m lead, connector protector and no approval option
Mechanical identity	Reach, case length and locknut position must be treated as one installed dimension set
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 330104-10-16-05-01-00.