330104-10-16-05-01-00

3300 XL 8 mm Proximity Probe

Apter Power field guide covering identity capture, installed relationships, controlled replacement, commissioning and handover.

Installed probe identity

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.

Complete identity record

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

Installed relationship

Reach, case length and locknut position must be treated as one installed dimension set

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.

Evidence boundary

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

Mechanical and electrical readiness

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.

Readiness checks

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.

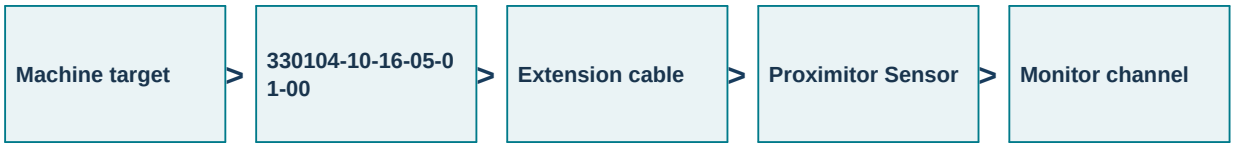
Re-establish the gap

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

Technical values used for fit decisions

Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel
Cable construction	75 ohm triaxial, FEP insulated
System linear range	2.0 mm (80 mils), matched 3300 XL 8 mm system
System scale factor	7.87 V/mm (200 mV/mil)
Recommended radial-vibration gap	-9 V DC; approximately 1.27 mm
Frequency response	0 to 10 kHz, +0/-3 dB
Standard probe temperature	-52 to +177 deg C
Minimum cable bend radius	25.4 mm

Installed signal or connection path



Readiness boundary

Application scope: Use it in approved M10 x 1 installations requiring 100 mm unthreaded reach and a short probe lead.

Controlled probe replacement

01 Capture	Photograph the complete marking, installed position, connections and companion hardware before disturbance.
02 Isolate	Apply the approved machine or system isolation and prove the required de-energized state.
03 Compare	Check every order-code value and mechanical interface against the offered item and approved drawing.
04 Remove	Release connectors and supports without twisting, pulling or loading the sensing face, cable or armor.
05 Install	Record the 100 mm unthreaded section and installed insertion depth before loosening the locknut. Check clearance through the complete sleeve and mounting structure.
06 Reconnect	Do not rotate or pull the cable while tightening the M10 body. Seat the ClickLoc joint and install the protector without sharp bends.
07 Energize	Use the approved staged procedure and monitor the expected static state before functional testing.
08 Prove	Use live voltage and the accepted machine baseline after mechanical installation.

Field decisions

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.

Further model-specific decisions

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.

Channel proof and handover

Identity accepted	Complete order code and supplied execution agree with the approved record.
Mechanical acceptance	Mounting, insertion, routing, support and connector condition match the documented arrangement.
Electrical acceptance	Continuity, static bias or gap and receiving-channel state are within the approved baseline.
Functional acceptance	Representative measurement or connection response agrees with the recorded machine condition.
Handover record	Retain photographs, as-left values, companion identities, deviations and responsible release.

Release record

As-found evidence	Complete marking, installed position, connection map and baseline readings retained.
As-left evidence	Installed identity, mechanical datum, static reading and functional result retained.
Approval basis	Site procedure, applicable manufacturer document and responsible release recorded.

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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