330104-04-10-05-01-00

3300 XL 8 mm Proximity Probe

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

Installed probe identity

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.

Complete identity record

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

Installed relationship

The 40/100 mm geometry is not interchangeable with another 330104 case without installation review

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.

Evidence boundary

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

Mechanical and electrical readiness

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.

Readiness checks

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.

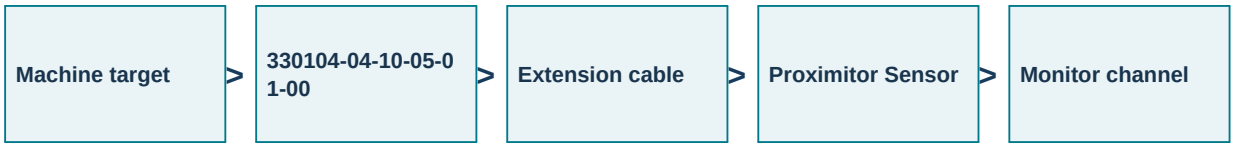
Verify static and dynamic response

Confirm gap voltage and machine signal against the accepted record.

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: Apply it to approved M10 x 1 machine points requiring the documented medium-reach case geometry.

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	Do not accept a visually similar M10 probe with different reach or case length. Measure the installed position before removing the armored probe.
06 Reconnect	Torque the case while keeping the lead and ferrule free from twist. Clean, seat and cover the connection without exceeding bend limits.
07 Energize	Use the approved staged procedure and monitor the expected static state before functional testing.
08 Prove	Confirm gap voltage and machine signal against the accepted record.

Field decisions

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.

Further model-specific decisions

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.

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.
sales13@apterpower.com | +86 18030235313