Bently Nevada 330103-17-23-05-02-05

COMPLETE PRODUCT-PAGE INFORMATION

Bently Nevada 330103-17-23-05-02-05 is a 3300 XL 8 mm proximity probe with M10 x 1 case thread and without armor. It is the probe segment of a matched noncontact shaft measurement chain.

01 Product position

Complete identity	330103-17-23-05-02-05
Product type	3300 XL 8 mm Proximity Probe
System family	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Supply boundary	The offered item is the 3300 XL 8 mm probe with its integral 0.5 m lead. Confirm extension cable, 3300 XL 8 mm Proximitor Sensor and mounting accessories separately in the quotation.

Decision snapshot

Marking	Keep the complete model and every suffix group in the comparison.
Installed chain	Match probe, extension cable and Proximitor Sensor markings.
Acceptance	Use measured gap or channel response and retain the as-left record.

Overview

The 3300 XL 8 mm probe senses shaft-to-tip gap as one part of a probe, extension cable and 3300 XL 8 mm Proximitor Sensor chain.

The 330103 base number selects a 3300 XL 8 mm probe with M10 x 1 mounting and without armor. The first two order groups set 170 mm unthreaded length and 230 mm overall case length. These dimensions are installation geometry: compare bracket depth, target clearance and the removed part before setting the probe gap.

The integral 0.5 m probe lead terminates in a miniature coaxial ClickLoc connector without connector protector. An extension cable completes the electrical run to the 3300 XL 8 mm Proximitor Sensor; select the probe and cable lengths for the matching sensor system length. A mechanically fitting connector alone does not establish an electrically matched chain.

The final option is CSA, ATEX and IECEx approvals option. Inspect the actual marking and site classification before commissioning; retain the original monitor channel and target records. The probe must be checked in its installed chain under a controlled machine procedure rather than evaluated only as a loose component.

Related Bently Nevada references

Bently Nevada 330101-04-36-05-02-05	Catalogue reference; verify the complete installed chain.
Bently Nevada 330102-00-32-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330909-00-30-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330180-50-CN	Catalogue reference; verify the complete installed chain.

02 Exact configuration and technical data

Order-code values identify this complete reference. Rows labelled matched-system describe the correctly assembled transducer chain, not a loose component.

Probe system	3300 XL 8 mm
Probe tip family	8 mm
Case thread	M10 x 1
Cable armor	without armor
Unthreaded length	170 mm
Overall case length	230 mm
Integral probe length	0.5 m
Cable construction	standard
Connector	Miniature coaxial ClickLoc, without connector protector
Approval option	CSA, ATEX and IECEx approvals option
Matching sensor	3300 XL 8 mm Proximitor Sensor

Configuration interpretation

Identity logic	Read 330103-17-23-05-02-05 as 330103 plus order groups 17 / 23 / 05 / 02 / 05; verify case, cable and approval groups against the installed marking.
Source boundary	Exact order groups follow the manufacturer ordering table. Values labeled matched-system apply only to a complete, correctly matched probe, extension cable and Proximitor Sensor chain.
Condition	New, original product
Shipping	Swift global dispatch

Source applicability

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN. Exact order groups follow the manufacturer ordering table. Values labeled matched-system apply only to a complete, correctly matched probe, extension cable and Proximitor Sensor chain.

Engineering questions

How should the installed measurement chain be matched when replacing 330103-17-23-05-02-05?	Check the probe lead and extension cable lengths together against the 3300 XL 8 mm Proximitor Sensor marking, then compare the monitor channel configuration.
Why might 330103-17-23-05-02-05 fit a bracket but still produce the wrong gap reading?	M10 x 1 fit does not verify electrical length, target material, sensor calibration or gap. Compare the full chain and measure the baseline output before return to service.

03 Remaining data and installed-system fit

Matched-system scale factor	7.87 V/mm (200 mV/mil); 1 m / 5 m system value
Matched-system linear range	2.0 mm (80 mil); approximately 0.25 to 2.3 mm gap
Recommended radial gap	-9 Vdc; approximately 1.27 mm (50 mil)
Matched-system frequency response	0 to 10 kHz, +0/-3 dB; up to 305 m field wiring
Minimum flat target	15.2 mm (0.6 in) diameter
Minimum shaft diameter	50.8 mm (2 in); 76.2 mm (3 in) recommended
Probe tip diameter	8.0 mm (0.31 in)
Probe cable impedance	75 ohm
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel
Standard cable temperature range	-52 to +177 deg C (-62 to +350 deg F)

Applications / Compatibility

System position: 330103-17-23-05-02-05 is the probe segment of the 3300 XL 8 mm Proximity Transducer System; the extension cable, sensor and monitor channel are separate interfaces. Application boundary: Use the manufacturer system data and the installed target geometry to decide measurement fit before replacing a probe.

Radial vibration and position	Confirm 3300 XL 8 mm target and monitor suitability; compare the original probe angle and bracket clearance.
Axial position review	Check target travel and the calibrated system range before setting the mechanical gap.
Speed or phase reference	Use a suitable target feature and compatible monitor channel; prove the event under controlled operation.
Installed-chain replacement	Match M10 x 1, 230 mm case, 0.5 m lead, ClickLoc option and full approval marking.

Compatibility boundary

Mechanical fit	Confirm thread, case, connector, mounting and routing.
Electrical match	Match probe, extension cable and Proximitor Sensor markings.
Approval evidence	Use the offered nameplate and site record; a suffix alone is not approval evidence.
Included scope	The offered item is the 3300 XL 8 mm probe with its integral 0.5 m lead. Confirm extension cable, 3300 XL 8 mm Proximitor Sensor and mounting accessories separately in the quotation.

04 Product precautions and commissioning

Read all code groups	Compare every group of 330103-17-23-05-02-05 with the removed part; a shared base number does not establish equal cable or case length.
Check mounting geometry	Confirm M10 x 1, 170 mm unthreaded section and 230 mm case against the bracket and target.
Match electrical length	Combine the 0.5 m probe lead with the extension cable and check the 3300 XL 8 mm Proximitor Sensor system-length marking.
Inspect ClickLoc	Keep the connector clean and verify the specified connector-protector arrangement before closing the joint.
Review site approval	Treat the order-code approval group as CSA, ATEX and IECEx approvals option; compare the physical label with the site requirement.
Prove the channel	Record target condition, gap indication and a controlled dynamic or position response after fitting.

Replacement sequence

01 Record baseline	Photograph complete labels, position, connectors, routing and current indication.
02 Isolate	Apply the approved site isolation and machinery-protection procedure.
03 Compare	Check offered identity, geometry, cable construction and included items.
04 Install	Restore routing and interfaces from the as-found record; do not force connectors.
05 Configure	Preserve the approved monitor channel, target and system-length settings.
06 Prove	Record static indication and a controlled response in an approved machine state.
07 Handover	Archive final identity, measurements and unresolved exceptions.

Fault-isolation starting points

Unexpected gap	Recheck target material, electrical length, connector engagement and channel configuration.
No channel response	Verify supply, terminal ownership and continuity before substituting another component.
Intermittent signal	Inspect connector protection, cable routing, armor transitions and vibration at the mounting point.
Scale differs	Confirm the complete matched family and sensor system length; physical fit is not calibration evidence.
Result accepted	Retain the exact model, measured baseline, test condition and as-left response.

05 Lifecycle, FAQ and enquiry

330103-17-23-05-02-05 status	A current lifecycle phase for this exact complete configuration has not been confirmed.
Support and replacement	Compare the complete marking and documented measurement-chain or installation interfaces before selecting a replacement.
Apter Power availability	The offered quantity and dispatch date are confirmed separately in the quotation.

Additional technical FAQ

Can a different approval suffix be assumed equivalent to 330103-17-23-05-02-05?	No. Compare the physical approval marking, installation drawing and site classification before selecting a suffix for a controlled area.
How should a noisy channel be isolated after installing 330103-17-23-05-02-05?	Inspect target condition, ClickLoc joint, routing and shielding, then compare the probe-extension-sensor chain and monitor input under the approved diagnostic procedure.

Available Unit Details

Offered reference	Bently Nevada 330103-17-23-05-02-05. Condition: New, original product.
Identity check	Match the complete order code, visible revision and installed chain before acceptance.
Included items	Confirm the probe, cable, sensor and mounting scope in the quotation.

Related Bently Nevada references

Bently Nevada 330101-04-36-05-02-05	Catalogue reference; verify the complete installed chain.
Bently Nevada 330102-00-32-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330909-00-30-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330180-50-CN	Catalogue reference; verify the complete installed chain.
Bently Nevada 330130-080-00-00	Catalogue reference; verify the complete installed chain.

Discuss the complete marking with Apter Power
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