Bently Nevada 330104-05-17-10-11-05

Complete Product Information

Bently Nevada 330104-05-17-10-11-05 is a M10 x 1 forward mount sensing element with a 1.0 m lead for a matched 3300 XL 8 mm eddy-current measurement chain.

01 Product identity and verified data

Complete model	330104-05-17-10-11-05
Product type	3300 XL 8 mm proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN
Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Mounting form	forward mount
Cable armor	Stainless-steel armor
Unthreaded length	50 mm
Overall case length	170 mm
Total probe length	1.0 m
Connector and cable	ClickLoc with connector protector, FluidLoc cable

Engineering purpose

Bently Nevada 330104-05-17-10-11-05 is a M10 x 1 forward mount sensing element with a 1.0 m lead for a matched 3300 XL 8 mm eddy-current measurement chain.

Selected order-code snapshot

Selected mechanics	M10 x 1; 50 mm unthreaded reach; 170 mm case; forward mount.
Lead interface	1.0 m; ClickLoc with connector protector, FluidLoc cable.
Matched response	2.0 mm range, 7.87 V/mm scale and 0 to 10 kHz response for the complete approved chain.

02 Technical capability and engineering overview

Approval selection	CSA, ATEX and IECEx approvals
Nominal probe resistance	7.59 +/-0.50 ohm
Matched-system linear range	2.0 mm (80 mil)
Matched-system scale factor	7.87 V/mm (200 mV/mil)

Recommended radial gap	Approximately 1.27 mm at -9 V DC
Matched-system frequency response	0 to 10 kHz, +0/-3 dB
Minimum flat target diameter	15.2 mm
Probe cable impedance	75 ohm triaxial
Probe tip material	PPS
Probe case material	AISI 303 or 304 stainless steel
Minimum cable bend radius	25.4 mm
Standard probe temperature	-52 to +177 deg C

Evidence boundary

The order-code fields and numeric data are taken from 141194 Rev. AN. Range, scale, frequency response and gap are matched-system values, not standalone probe outputs.

Engineering overview

The M10 x 1 forward mount body, 50 mm reach and 170 mm case set the sensing face relative to the target. These dimensions must agree with the installed port and recorded mechanical datum.

The 1.0 m lead uses clickloc with connector protector, fluidloc cable. Its electrical length, connector condition and cable support are part of the calibrated probe-extension-Proximitor relationship.

The published 2.0 mm range and 7.87 V/mm scale are system values on the stated AISI 4140 reference target. Acceptance therefore includes the installed target, restored gap or bias and controlled monitor response.

Application map

Radial shaft vibration

Use the probe at a documented bearing location where the shaft diameter, target area and X-Y spacing meet the 3300 XL 8 mm installation limits.

Axial position

Aim the sensing face at the approved thrust target and keep expected axial travel inside the characterized 2.0 mm working region.

Phase or speed reference

Use with an approved once-per-turn target and matching channel configuration after verifying target width, gap and rotational clearance.

Installed-chain replacement

Replace only where the machine record calls for this M10 x 1 forward mount geometry, 1.0 m lead and 3300 XL 8 mm companion components.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330104-05-17-10-11-05 and the documented 3300 XL 8 mm proximity transducer system context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.

Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

This exact probe configuration belongs to a 3300 XL 8 mm proximity transducer system; its M10 x 1 mounting, 1.0 m lead, connector and installed target must be reviewed together.

04 Lifecycle, offered scope and related references

Lifecycle status

Order-code coverage	The current 141194 ordering table defines the complete 330104-05-17-10-11-05 geometry, lead, connector and approval fields.
Installed-base relationship	Service support depends on retaining the 1.0 m 3300 XL 8 mm electrical chain and the documented Proximitor option.
Replacement boundary	A different M10 x 1 reach, case, lead or connector changes the ordered mechanical or electrical configuration.
Release evidence	Use the delivered marking and the installed channel record to confirm compatibility before energizing the monitor.

Available unit details

Offered configuration	Forward Mount, M10 x 1, 50 mm unthreaded reach, 170 mm case and 1.0 m lead.
Selected termination	ClickLoc with connector protector, FluidLoc cable; CSA, ATEX and IECEx approvals.
Included scope	One proximity probe; extension cable, Proximitor Sensor, monitor and mounting hardware are separate unless itemized.

Source and applicability record

Verified source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN
Applicability boundary	The order-code fields and numeric data are taken from 141194 Rev. AN. Range, scale, frequency response and gap are matched-system values, not standalone probe outputs.
Product family	3300 XL 8 mm proximity transducer system

Additional related product references

Related product	Bently Nevada 330104-00-16-10-02-00
Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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