

330106-05-30-10-02-IN

3300 XL 8 mm M10 x 1 reverse-mount proximity probe

Non-contact eddy-current displacement signal from a conductive shaft target

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330106-05-30-10-02-IN

ORIGIN / HS

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PRODUCT OVERVIEW

Non-contact eddy-current displacement signal from a conductive shaft target

1

Uses the documented M10 x 1 reverse-mount geometry

2

Carries the sensing signal over a one-metre probe lead

3

Terminates in a miniature ClickLoc connection

4

Forms the probe element of a matched 3300 XL 8 mm system

SYSTEM COMPONENTS

3300 XL 8 mm Proximitior Sensor

matched extension cable when required

AISI 4140 steel target

compatible Bently Nevada monitor channel

TECHNICAL NOTE

Confirm the M10 x 1 reverse-mount sleeve, one-metre lead, IN approval marking and complete matched system length before mechanical adjustment and gap verification.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330106
Mounting	Reverse mount
Probe thread	M10 x 1
Fixed geometry code	05-30
Total probe length	1.0 m (3.3 ft)
Connector	Miniature coaxial ClickLoc
Probe cable	Standard
Approval suffix	IN

PARAMETER	VALUE
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC
Supply sensitivity	<2 mV/V
Output resistance	50 Ohm
Field-wire conductor range	0.2 to 1.5 mm ² (16 to 24 AWG)
Maximum field-wire length	305 m (1000 ft)
Linear range	2.0 mm (80 mils)
Linear-range limits	0.25 to 2.30 mm (10 to 90 mils)

ENGINEERING NOTE

Confirm the M10 x 1 reverse-mount sleeve, one-metre lead, IN approval marking and complete matched system length before mechanical adjustment and gap verification.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
991-06-50-01-00	Related Bently Nevada product	View 991-06-50-01-00 page
330103-00-15-05-01-00	Related Bently Nevada product	View 330103-00-15-05-01-00 page
330103-00-07-20-02-00	Related Bently Nevada product	View 330103-00-07-20-02-00 page
330104-00-10-10-02-00	Related Bently Nevada product	View 330104-00-10-10-02-00 page
330102-00-40-10-02-00	Related Bently Nevada product	View 330102-00-40-10-02-00 page
330102-22-58-10-02-00	Related Bently Nevada product	View 330102-22-58-10-02-00 page
135489-01	Related Bently Nevada product	View 135489-01 page
330103-00-04-50-11-00	Related Bently Nevada product	View 330103-00-04-50-11-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Reverse-mount radial vibration

Uses the documented M10 x 1 reverse-mount geometry

Axial position sensing

Carries the sensing signal over a one-metre probe lead

Bearing-housing probe installation

Terminates in a miniature ClickLoc connection

Matched 8 mm loop renewal

Forms the probe element of a matched 3300 XL 8 mm system

PRODUCT PRECAUTIONS

- 1 Verify the complete 330106-05-30-10-02-IN marking and M10 x 1 reverse-mount execution before work.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Protect the sensing tip, threads and mounting surface from impact, burrs and contamination.
- 4 Route and support the 1.0 m lead without sharp bends, crushing, tensile load or contact with moving parts.
- 5 Keep coaxial connector faces clean, dry and mechanically unloaded during handling.
- 6 Confirm the matched 3300 XL 8 mm electronics, total system length and target material before setting gap.
- 7 Preserve the documented probe separation and cable shielding arrangement during installation.
- 8 Prove gap voltage, polarity, dynamic response and alarm action before returning the channel to service.

ENGINEER FAQ

Q1 Does 330106-05-30-10-02-IN match 3300 XL 8 mm Proximity Sensor in a Reverse-mount radial vibration installation?

Verify the complete 330106-05-30-10-02-IN marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximity Sensor before fitting the assembly.

Q2 How should 330106-05-30-10-02-IN be wired when it must use the documented m10 x 1 reverse-mount geometry?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330106-05-30-10-02-IN; then continuity-test the affected path.

Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330106-05-30-10-02-IN?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330106-05-30-10-02-IN before disconnection.

Q4 What controlled test confirms that 330106-05-30-10-02-IN can carry the sensing signal over a one-metre probe lead?

Apply the approved field or simulated stimulus, observe the 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which matched extension cable when required condition should be checked when 330106-05-30-10-02-IN reports an abnormal state?

Check the matched extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330106-05-30-10-02-IN baseline.

Q6 Can 330106-05-30-10-02-IN be moved directly into Axial position sensing without validating compatible Bently Nevada monitor channel?

No. Confirm the compatible Bently Nevada monitor channel, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330106-05-30-10-02-IN to that duty.

Q7 What maintenance evidence is required after 330106-05-30-10-02-IN is used for Bearing-housing probe installation?

Retain the nameplate record, corrective action, final diagnostics and a controlled bearing-housing probe installation functional-test result for 330106-05-30-10-02-IN.

Q8 How should 330106-05-30-10-02-IN be returned to service in Matched 8 mm loop renewal?

Restore power under control, verify termination in a miniature clickloc connection, exercise the intended signal path and release 330106-05-30-10-02-IN only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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