

INDUSTRIAL AUTOMATION PRODUCT

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330106-05-30-10-02-IN
Country	USA
HS code	8537101190

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2

Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

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
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

PARAMETER	VALUE
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)
Recommended radial-vibration gap	-9 V DC; approximately 1.27 mm (50 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +0/-3 dB
Extension-cable capacitance	69.9 pF/m typical
Minimum bend radius	25.4 mm (1.0 in)

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	3300 XL 8 mm Proximito Sensor
Companion hardware	matched extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses the documented M10 x 1 reverse-mount geometry
Controlled acceptance duty	Reverse-mount radial vibration

3

System Role and Architecture

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

FUNCTION 1

Uses the documented M10 x 1 reverse-mount geometry

FUNCTION 2

Carries the sensing signal over a one-metre probe lead

FUNCTION 3

Terminates in a miniature ClickLoc connection

FUNCTION 4

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

Matched system components

- 3300 XL 8 mm Proximitior Sensor
- matched extension cable when required
- AISI 4140 steel target
- compatible Bently Nevada monitor channel

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL 8 mm Proximitior Sensor
Companion hardware	matched extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses the documented M10 x 1 reverse-mount geometry
Controlled acceptance duty	Reverse-mount radial vibration

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330106-05-30-10-02-IN / 330106-05-30-10-02-IN recorded
Physical interface	3300 XL 8 mm Proximitior Sensor
Companion check	matched extension cable when required
Functional proof	Uses the documented M10 x 1 reverse-mount geometry
Application test	Reverse-mount radial vibration

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
21000-16-10-15-114-03-02	Related Bently Nevada product	View 21000-16-10-15-114-03-02 page
21000-16-10-15-057-03-02	Related Bently Nevada product	View 21000-16-10-15-057-03-02 page
128031-01C	Related Bently Nevada product	View 128031-01C page
330909-00-60-10-02-05	Related Bently Nevada product	View 330909-00-60-10-02-05 page
330930-040-00-00	Related Bently Nevada product	View 330930-040-00-00 page
16710-30	Related Bently Nevada product	View 16710-30 page
330103-07-12-10-02-00	Related Bently Nevada product	View 330103-07-12-10-02-00 page
330103-02-07-10-02-00	Related Bently Nevada product	View 330103-02-07-10-02-00 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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