

INDUSTRIAL AUTOMATION PRODUCT

330103-00-25-05-02-00

3300 XL 8 mm M10 x 1 proximity probe

Non-contact eddy-current displacement signal for machinery monitoring

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330103-00-25-05-02-00
Country	USA
HS code	8537101190

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Technical Specifications

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

PARAMETER	VALUE
Probe model	330103
Probe thread	M10 x 1
Armor	No
Unthreaded length	0 mm
Overall case length	250 mm
Total probe length	0.5 m (1.6 ft)
Connector	Miniature coaxial ClickLoc
Probe cable	Standard
Agency approval option	Not required
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC

PARAMETER	VALUE
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)
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)

PUBLISHED REFERENCE CONDITIONS

CONDITION	VALUE
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System Role and Architecture

Non-contact eddy-current displacement signal for machinery monitoring

FUNCTION 1
Uses an M10 x 1 unarmored probe body

FUNCTION 2
Combines a 250 mm case with a half-metre lead

FUNCTION 3
Carries the signal through a miniature ClickLoc connector

FUNCTION 4
Supports the matched 3300 XL measurement chain

Matched system components

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

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 an M10 x 1 unarmored probe body
Controlled acceptance duty	Long-case radial vibration

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Applications and Engineering Context

Long-case radial vibration

Uses an M10 x 1 unarmored probe body

Axial thrust position

Combines a 250 mm case with a half-metre lead

Machine shaft centerline observation

Carries the signal through a miniature ClickLoc connector

Metric 8 mm loop renewal

Supports the matched 3300 XL measurement chain

TECHNICAL NOTE

Verify the zero unthreaded length, 250 mm case, half-metre lead and bracket clearance before tightening; then match the total system length and set static gap.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330103-00-25-05-02-00 / 330103-00-25-05-02-00 recorded
Physical interface	3300 XL 8 mm Proximitior Sensor
Companion check	matched extension cable when required
Functional proof	Uses an M10 x 1 unarmored probe body
Application test	Long-case radial vibration

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Engineering Precautions

1

Verify the complete 330103-00-25-05-02-00 marking and M10 x 1 unarmored 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 0.5 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
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
991-01-XX-01-00-MOD-2843...	Related Bently Nevada product	View 991-01-XX-01-00-MOD-2843... page
330103-00-08-10-02-00	Related Bently Nevada product	View 330103-00-08-10-02-00 page
330130-045-02-00	Related Bently Nevada product	View 330130-045-02-00 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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