

INDUSTRIAL AUTOMATION PRODUCT

330106-05-30-05-02-00

3300 XL 8 mm Metric Reverse-Mount Proximity Probe

Bently Nevada 330106-05-30-05-02-00 is a metric reverse-mount 3300 XL 8 mm proximity probe. It converts shaft-to-probe displacement into the electrical input used by a matched Proximitor Sensor and machinery-protection channel.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330106-05-30-05-02-00
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 series	3300 XL 8 mm
Mounting execution	Reverse mount
Probe body thread	M10 x 1
Unthreaded length	50 mm
Overall case length	300 mm
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc
Cable option	Standard cable
Agency approval option	Not required
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel

PARAMETER	VALUE
Nominal probe DC resistance	7.45 +/- 0.50 Ohm
Probe case-to-lead tensile rating	330 N maximum
Connector tensile rating	270 N maximum
Minimum cable bend radius	25.4 mm
Standard probe temperature	-52 to +177 degC
Matched-system linear range	2 mm
Incremental scale factor	7.87 V/mm nominal
Frequency response	0 to 10 kHz, +0/-3 dB
Minimum flat target diameter	15.2 mm
Minimum shaft diameter	50.8 mm
Recommended shaft diameter	76.2 mm

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Manufacturer	Bently Nevada
Product family	3300 XL 8 mm Proximity Transducer System
Origin	USA
HS code	8537101190
Shipping origin	Xiamen, Fujian, China
Source document	3300 XL 8 mm Proximity Transducer System Datasheet — 141194 Rev. AM

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System Role and Architecture

Bently Nevada 330106-05-30-05-02-00 is a metric reverse-mount 3300 XL 8 mm proximity probe. It converts shaft-to-probe displacement into the electrical input used by a matched Proximitor Sensor and machinery-protection channel.

FUNCTION 1

Places the probe connector and lead on the service side of a reverse-mount sleeve

FUNCTION 2

Detects shaft displacement without physical contact

FUNCTION 3

Operates as the sensing element of a matched 3300 XL 8 mm transducer loop

FUNCTION 4

Supports constrained bearing-housing installations requiring a long metric reverse-mount body

Matched system components

- 3300 XL reverse-mount sleeve
- 3300 XL 8 mm Proximitor Sensor
- matched extension cable for the engineered system length
- compatible Bently Nevada monitor channel

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL reverse-mount sleeve
Companion hardware	3300 XL 8 mm Proximitor Sensor
Field connection	matched extension cable for the engineered system length
Primary system function	Places the probe connector and lead on the service side of a reverse-mount sleeve
Controlled acceptance duty	Reverse-mount radial vibration measurement

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Applications and Engineering Context

Reverse-mount radial vibration measurement

Places the probe connector and lead on the service side of a reverse-mount sleeve

Restricted-access bearing housing

Detects shaft displacement without physical contact

Axial position monitoring

Operates as the sensing element of a matched 3300 XL 8 mm transducer loop

Shaft centerline observation

Supports constrained bearing-housing installations requiring a long metric reverse-mount body

TECHNICAL NOTE

Set the reverse-mount sleeve and insertion depth before securing the 300 mm body, then route the 0.5 m lead without loading the ClickLoc termination. Verify the complete system length, static gap and monitor scaling before enabling protection.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330106-05-30-05-02-00 / 330106-05-30-05-02-00 recorded
Physical interface	3300 XL reverse-mount sleeve
Companion check	3300 XL 8 mm Proximitor Sensor
Functional proof	Places the probe connector and lead on the service side of a reverse-mount sleeve
Application test	Reverse-mount radial vibration measurement

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Engineering Precautions

1

Verify the complete 330106-05-30-05-02-00 marking and reverse-mount sleeve before work.

2

Place the machine and connected protection channel in the approved maintenance state.

3

Prevent the long probe body from contacting the shaft while setting insertion depth.

4

Keep the M10 x 1 thread, PPS tip and sleeve surfaces free from burrs and contamination.

5

Maintain the published cable bend radius and do not load the ClickLoc connector.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/20 125744-02	Rack interface module	Open product page
3500/40M 176449-01	Proximitior monitor	Open product page
3500/45 140072-04	Position monitor configuration	Open product page
3500/60 163179-01	Temperature monitor	Open product page
3500/64M 140734-05	Dynamic pressure monitor	Open product page

MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet

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