APTER POWER

INDUSTRIAL AUTOMATION PRODUCT

330104-01-08-50-01-05

3300 XL 8 mm Standard Proximity Probe

Bently Nevada 330104-01-08-50-01-05 is the 3300 XL 8 mm Standard Proximity Probe for a matched 3300 XL 8 mm Proximity Transducer System. It provides noncontact relative-shaft measurement through the approved probe, cable and Proximitor Sensor loop.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Part number	330104-01-08-50-01-05
Origin / HS	USA / 8537101190
Shipping origin	Xiamen,Fujian,China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install Bently Nevada 330104-01-08-50-01-05 only in the documented 3300 XL 8 mm transducer arrangement and preserve the supplied order identity, probe interface, matched extension cable and Proximitor Sensor. Verify static gap, polarity, field wiring and controlled

System Role and Architecture

Bently Nevada 330104-01-08-50-01-05 is the 3300 XL 8 mm Standard Proximity Probe for a matched 3300 XL 8 mm Proximity Transducer System. It provides noncontact relative-shaft measurement through the approved probe, cable and Proximitor Sensor loop.

FUNCTION 1
Provides the documented 3300 XL 8 mm sensing element

FUNCTION 2
Preserves the complete supplied order identity

FUNCTION 3
Carries the eddy-current signal through the matched cable loop

FUNCTION 4
Supports static-position and dynamic-vibration measurement

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Bently Nevada 3300 XL 8 mm Proximity Transducer System
02	Matched extension cable and ClickLoc connector loop
03	3300 XL Proximitor Sensor host channel
04	AISI 4140 steel target or approved equivalent

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Interface role	Noncontact relative-shaft displacement measurement
Field / power context	-17.5 to -26 Vdc Proximitor Sensor supply; shielded field wiring
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

1. Confirm the complete 330104-01-08-50-01-05 marking and installed position before removal.
2. Place the monitored machine and associated protection channel in the approved maintenance state.
3. Protect the 8.0 mm probe tip and keep the mounting interface free from burrs and contamination.
4. Route the probe and extension leads without sharp bends, crushing, abrasion or tensile loading.

Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

PARAMETER	VALUE
Complete order number	330104-01-08-50-01-05
Product family	3300 XL 8 mm Proximity Transducer System
Probe construction	Per complete supplied order number
Probe-tip diameter	8.0 mm
System linear range	2.0 mm (80 mils)
Recommended gap	1.27 mm (50 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB
Probe-cable impedance	75 ohm
Proximitor Sensor supply	-17.5 to -26 V DC
Maximum field-wiring length	305 m
Target calibration	AISI 4140 steel
Proximitor Sensor input	One noncontacting 3300-series 5 mm or 3300 XL 8 mm probe
Supply sensitivity	Less than 2 mV output change per volt input change

PARAMETER	VALUE
Field wiring	0.2 to 1.5 mm2 (16 to 24 AWG); 3-conductor shielded
Minimum target size	15.2 mm (0.6 in) diameter flat target
Minimum shaft diameter	50.8 mm (2 in)
Recommended shaft diameter	76.2 mm (3 in)
Probe case material	AISI 303 or 304 stainless steel
Probe tip material	Polyphenylene sulfide (PPS)
Standard probe temperature	-52 to +177 deg C (-62 to +350 deg F)
Standard cable	75 ohm triaxial FEP; total probe lengths 0.5, 1, 1.5, 2, 3,
Minimum cable bend radius	25.4 mm (1.0 in)
Maximum connector torque	0.565 N m (5 in lbf)
Thread engagement limit	3/8-24: 0.563 in; M10x1: 15 mm
Total system length	5 or 9 m including extension cable; 1 m probe-only system

ENGINEERING BOUNDARY

Confirm Bently Nevada 330104-01-08-50-01-05, the installed 3300 XL 8 mm host arrangement, complete order marking, probe and cable interfaces, Proximitor Sensor, target material, wiring, shielding, grounding, monitor configuration, static gap and controlled response-test results before commissioning.

PRE-INSTALLATION CHECKS

1. Confirm the complete 330104-01-08-50-01-05 marking and installed position before removal.
2. Place the monitored machine and associated protection channel in the approved maintenance state.
3. Protect the 8.0 mm probe tip and keep the mounting interface free from burrs and contamination.
4. Route the probe and extension leads without sharp bends, crushing, abrasion or tensile loading.

Applications and Engineering Context

Radial shaft-vibration measurement

Measures shaft motion relative to the bearing housing in the matched proximity loop.

Axial position and thrust monitoring

Provides a documented noncontact sensing point for the configured position channel.

Machine shaft centerline observation

Supplies static-position information to the installed machinery monitor.

Matched transducer-loop replacement

Restores the exact supplied article identity without changing the approved loop.

TECHNICAL NOTE

Install Bently Nevada 330104-01-08-50-01-05 only in the documented 3300 XL 8 mm transducer arrangement and preserve the supplied order identity, probe interface, matched extension cable and Proximitor Sensor. Verify static gap, polarity, field wiring and controlled channel response before enabling the monitor.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330104-01-08-50-01-05 recorded
Host / carrier	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Physical interface	Probe, cable and Proximitor Sensor matched
Configuration	Review supply, gap, polarity and monitor diagnostics
Functional proof	Complete controlled response and alarm test

IMPORTANT NOTICE

Confirm Bently Nevada 330104-01-08-50-01-05, the installed 3300 XL 8 mm host arrangement, complete order marking, probe and cable interfaces, Proximitor Sensor, target material, wiring, shielding, grounding, monitor configuration, static gap and controlled

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330130-035-00-05
02	Bently Nevada 330130-080-13-05
03	Bently Nevada 330130-046-00-06
04	Bently Nevada 330703-000-050-10-02-00
05	Bently Nevada 330703-000-060-10-02-00
06	Bently Nevada 330103-00-16-10-12-CN
07	Bently Nevada 330104-00-04-50-02-00
08	Bently Nevada 330130-080-12-05

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

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