

INDUSTRIAL AUTOMATION PRODUCT

330104-00-04-50-02-00

3300 XL 8 mm metric armored proximity probe

It senses shaft-to-bearing distance without contact and supplies the probe signal to a matched 3300 XL 8 mm Proximitor Sensor.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330104-00-04-50-02-00
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

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

PARAMETER	VALUE
Part number	330104-00-04-50-02-00
Probe thread	M10 x 1
Cable armor	Stainless steel with FEP jacket
Unthreaded length	0 mm
Overall case length	40 mm
Total probe length	5.0 m
Connector	Miniature coaxial ClickLoc
Connector protector	Not included
Agency approval option	00
Probe tip material	Polyphenylene sulfide (PPS)

PARAMETER	VALUE
Probe case material	AISI 303 or 304 stainless steel
Cable impedance	75 ohm triaxial
Cable insulation	FEP
Minimum cable bend radius	25.4 mm (1.0 in)
Maximum probe-to-lead tensile strength	330 N (75 lbf)
Maximum lead-to-extension tensile strength	270 N (60 lbf)
Connector material	Gold-plated brass or beryllium copper
Recommended connector torque	Finger tight
Maximum connector torque	0.565 N m (5 in lbf)
Standard probe temperature	-52 to +177 degC

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	3300 XL 8 mm Proximitior Sensor
Companion hardware	compatible 3300 XL extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses an armored five-metre probe lead
Controlled acceptance duty	Radial shaft-vibration measurement

3

System Role and Architecture

It senses shaft-to-bearing distance without contact and supplies the probe signal to a matched 3300 XL 8 mm Proximitor Sensor.

FUNCTION 1

Uses an armored five-metre probe lead

FUNCTION 2

Fits an M10 x 1 metric mounting thread

FUNCTION 3

Protects the probe cable with stainless-steel armor

FUNCTION 4

Provides the sensing element for static position and dynamic vibration

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL 8 mm Proximitor Sensor
Companion hardware	compatible 3300 XL extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses an armored five-metre probe lead
Controlled acceptance duty	Radial shaft-vibration measurement

4

Applications and Engineering Context

Radial shaft-vibration measurement

Uses an armored five-metre probe lead

Axial shaft-position monitoring

Fits an M10 x 1 metric mounting thread

Machine centerline observation

Protects the probe cable with stainless-steel armor

Keyphasor reference sensing

Provides the sensing element for static position and dynamic vibration

TECHNICAL NOTE

Confirm the M10 x 1 bracket thread and 40 mm case clearance, do not exceed the documented thread engagement, protect the armored lead from side load, and set the probe gap only after the matched system is assembled.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330104-00-04-50-02-00 / 330104-00-04-50-02-00 recorded
Physical interface	3300 XL 8 mm Proximitior Sensor
Companion check	compatible 3300 XL extension cable when required
Functional proof	Uses an armored five-metre probe lead
Application test	Radial shaft-vibration measurement

5

Engineering Precautions

1

Verify the complete 330104-00-04-50-02-00 marking and its documented 3300 XL 8 mm Proximity Transducer System position before field work.

2

Place the monitored machine and associated protection channel in the approved maintenance state before disconnecting 3300 XL 8 mm metric armored proximity probe.

3

Protect every exposed connector and cable end from oil, moisture, dirt and impact while 330104-00-04-50-02-00 is open.

4

Record probe, extension-cable and Proximity Sensor identities so the calibrated system length is preserved.

5

Route 330104-00-04-50-02-00 without sharp bends, crushing, abrasion or tensile loading at either coaxial termination.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
162381-138-040-90-05	Related Bently Nevada product	View 162381-138-040-90-05 page
162381-064-028-50-05	Related Bently Nevada product	View 162381-064-028-50-05 page
200151-XX-XX-XX-MOD-3233...	Related Bently Nevada product	View 200151-XX-XX-XX-MOD-3233... page
162381-078-027-50-05	Related Bently Nevada product	View 162381-078-027-50-05 page
330103-00-12-10-12-05	Related Bently Nevada product	View 330103-00-12-10-12-05 page
9200-06-01-11-04	Related Bently Nevada product	View 9200-06-01-11-04 page
330851-04-000-030-10-01-05	Related Bently Nevada product	View 330851-04-000-030-10-01-05 page
84510-30	Related Bently Nevada product	View 84510-30 page

MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

