

## APTER POWER

COMPLETE PRODUCT INFORMATION

# 330103-00-25-05-02-00

## 3300 XL 8 mm M10 x 1 proximity probe

Non-contact eddy-current displacement signal for machinery monitoring

### PRODUCT SNAPSHOT

#### BRAND

Bently Nevada

#### FAMILY

3300 XL 8 mm Proximity Transducer System

#### PART

330103-00-25-05-02-00

#### ORIGIN / HS

USA / 8537101190

### APTER POWER SALES TEAM

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## PRODUCT OVERVIEW

Non-contact eddy-current displacement signal for machinery monitoring

1

Uses an M10 x 1 unarmored probe body

2

Combines a 250 mm case with a half-metre lead

3

Carries the signal through a miniature ClickLoc connector

4

Supports the matched 3300 XL measurement chain

## SYSTEM COMPONENTS

3300 XL 8 mm Proximitior Sensor

matched extension cable when required

AISI 4140 steel target

compatible monitor input

### 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.

TECHNICAL DATA

| 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                   |

| PARAMETER                  | VALUE                            |
|----------------------------|----------------------------------|
| 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                  |
| Supply sensitivity         | <2 mV/V                          |
| Output resistance          | 50 Ohm                           |
| Field-wire conductor range | 0.2 to 1.5 mm2 (16 to 24 AWG)    |
| Maximum field-wire length  | 305 m (1000 ft)                  |
| Linear range               | 2.0 mm (80 mils)                 |

ENGINEERING 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.

RELATED PRODUCTS ON APTER POWER

| MODEL                 | SYSTEM ROLE                   | APTER POWER PAGE                                |
|-----------------------|-------------------------------|-------------------------------------------------|
| 190501-04-00-00       | Related Bently Nevada product | <a href="#">View 190501-04-00-00 page</a>       |
| 330103-00-08-05-02-CN | Related Bently Nevada product | <a href="#">View 330103-00-08-05-02-CN page</a> |
| 330854-040-24-CN      | Related Bently Nevada product | <a href="#">View 330854-040-24-CN page</a>      |
| 991-06-70-01-00       | Related Bently Nevada product | <a href="#">View 991-06-70-01-00 page</a>       |
| 330905-00-08-10-02-00 | Related Bently Nevada product | <a href="#">View 330905-00-08-10-02-00 page</a> |
| 330103-08-15-10-02-00 | Related Bently Nevada product | <a href="#">View 330103-08-15-10-02-00 page</a> |
| 330130-075-00-CN      | Related Bently Nevada product | <a href="#">View 330130-075-00-CN page</a>      |
| 136703-01             | Related Bently Nevada product | <a href="#">View 136703-01 page</a>             |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### 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

## PRODUCT 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.
- 6 Confirm the matched 3300 XL 8 mm electronics, total system length and target material before setting gap.
- 7 Preserve the documented probe separation and cable shielding arrangement during installation.
- 8 Prove gap voltage, polarity, dynamic response and alarm action before returning the channel to service.

# ENGINEER FAQ

## Q1 Does 330103-00-25-05-02-00 match 3300 XL 8 mm Proximity Sensor in a Long-case radial vibration installation?

Verify the complete 330103-00-25-05-02-00 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximity Sensor before fitting the assembly.

## Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330103-00-25-05-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330103-00-25-05-02-00 before disconnection.

## Q5 Which matched extension cable when required condition should be checked when 330103-00-25-05-02-00 reports an abnormal state?

Check the matched extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330103-00-25-05-02-00 baseline.

## Q7 What maintenance evidence is required after 330103-00-25-05-02-00 is used for Machine shaft centerline observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine shaft centerline observation functional-test result for 330103-00-25-05-02-00.

## Q2 How should 330103-00-25-05-02-00 be wired when it must uses an m10 x 1 unarmored probe body?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330103-00-25-05-02-00; then continuity-test the affected path.

## Q4 What controlled test confirms that 330103-00-25-05-02-00 can combines a 250 mm case with a half-metre lead?

Apply the approved field or simulated stimulus, observe the 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

## Q6 Can 330103-00-25-05-02-00 be moved directly into Axial thrust position without validating compatible monitor input?

No. Confirm the compatible monitor input, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330103-00-25-05-02-00 to that duty.

## Q8 How should 330103-00-25-05-02-00 be returned to service in Metric 8 mm loop renewal?

Restore power under control, verify carries the signal through a miniature clickloc connector, exercise the intended signal path and release 330103-00-25-05-02-00 only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

**SOURCE** Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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