

### 330103-10-20-10-02-00

#### Proximity Probe

It is a unarmored M10 x 1 3300 XL 8 mm probe with a 200 mm case and 1.0 m integral lead.

|                       |                                          |
|-----------------------|------------------------------------------|
| <b>Manufacturer</b>   | Bently Nevada                            |
| <b>Product family</b> | 3300 XL 8 mm proximity transducer system |
| <b>Complete model</b> | 330103-10-20-10-02-00                    |
| <b>Source record</b>  | 141194 Rev. AN                           |

#### RELATED PRODUCTS ON APTER POWER

|           |                                        |                      |
|-----------|----------------------------------------|----------------------|
| <b>01</b> | Bently Nevada 21000-16-05-00-033-04-02 | <a href="#">OPEN</a> |
| <b>02</b> | Bently Nevada 24710-080-00             | <a href="#">OPEN</a> |
| <b>03</b> | Bently Nevada 330903-03-11-05-02-05    | <a href="#">OPEN</a> |
| <b>04</b> | Bently Nevada 330102-00-40-10-01-05    | <a href="#">OPEN</a> |
| <b>05</b> | Bently Nevada 330104-01-04-15-02-05    | <a href="#">OPEN</a> |
| <b>06</b> | Bently Nevada 330101-00-52-05-01-05    | <a href="#">OPEN</a> |

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330103-10-20-10-02-00

Exact-model technical record

|                     |                                          |                            |                         |
|---------------------|------------------------------------------|----------------------------|-------------------------|
| Complete model      | 330103-10-20-10-02-00                    | Probe lead length          | 1.0 m                   |
| Manufacturer        | Bently Nevada                            | Connector and cable option | ClickLoc standard cable |
| Product family      | 3300 XL 8 mm proximity transducer system | Approval option            | No approvals            |
| Probe part family   | 330103                                   | System linear range        | 2.0 mm (80 mils)        |
| Mounting thread     | M10 x 1                                  | Scale factor               | 7.87 V/mm (200 mV/mil)  |
| Cable armor         | Unarmored                                | Frequency response         | 0 to 10 kHz             |
| Unthreaded length   | 100 mm                                   | Nominal gap                | 1.27 mm (50 mils)       |
| Overall case length | 200 mm                                   |                            |                         |

OFFICIAL SOURCE COVERAGE

|          |                                                                                                     |
|----------|-----------------------------------------------------------------------------------------------------|
| Source 1 | 3300 XL 8 mm Proximity Transducer System Datasheet — Ordering Information, 141194 Rev. AN           |
| Source 2 | 3300 XL 8 mm Proximity Transducer System Datasheet — Specifications, 141194 Rev. AN                 |
| Source 3 | 3300 XL 8 mm Proximity Transducer System Datasheet — Description and ordering notes, 141194 Rev. AN |

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## System role and applications

### Radial shaft vibration

Measures non-contacting shaft vibration in a matched 8 mm system.

### Axial position

Tracks shaft position where the engineered target and mounting geometry support the measurement.

### Phase reference

Supports phase-reference service when the monitor project assigns this probe accordingly.

### Exact probe replacement

Preserves the published thread, case, lead and connector identity during maintenance.

### ENGINEERING BOUNDARY

Verify 330103-10-20-10-02-00, the installed extension cable and Proximity Sensor, target material, system length and gap before replacement.

## RELATED PRODUCTS ON APTER POWER

|    |                                        |      |
|----|----------------------------------------|------|
| 01 | Bently Nevada 21000-16-05-00-033-04-02 | OPEN |
| 02 | Bently Nevada 24710-080-00             | OPEN |
| 03 | Bently Nevada 330903-03-11-05-02-05    | OPEN |
| 04 | Bently Nevada 330102-00-40-10-01-05    | OPEN |

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## Model-specific engineering questions

### Q1. Why does Bently Nevada 330103-10-20-10-02-00 need extra insertion clearance?

Its M10 x 1 body includes a 100 mm unthreaded section and 200 mm overall case, so the bracket and withdrawal path must accommodate the long probe.

### Q2. Which mechanical reference must be preserved for Bently Nevada 330103-10-20-10-02-00?

Record the installed insertion depth before loosening the locknuts; the long smooth section makes that reference critical to restoring probe position.

### Q3. What lead arrangement accompanies Bently Nevada 330103-10-20-10-02-00?

It uses a 1.0 m unarmored integral lead with a ClickLoc standard-cable connection, routed without loading the long probe body.

### Q4. Can Bently Nevada 330103-10-20-10-02-00 be used where an approval option is mandatory?

Not on the basis of this order code: the final 00 position denotes no approval selection.

### SOURCE IDENTIFIER

141194 Rev. AN

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## Acceptance reference and related products

**Q5. How should the long probe be paired electrically?**

Match it with the extension cable and 3300 XL 8 mm Proximitor Sensor that produce the documented total system length.

**Q6. Which response value should be recovered after reinstalling Bently Nevada 330103-10-20-10-02-00?**

The displacement slope should return to 7.87 V/mm (200 mV/mil) within the 2.0 mm linear range.

### RELATED PRODUCTS ON APTER POWER

|    |                                          |      |
|----|------------------------------------------|------|
| 01 | Bently Nevada 330104-01-04-15-02-05      | OPEN |
| 02 | Bently Nevada 330101-00-52-05-01-05      | OPEN |
| 03 | Bently Nevada 21504-0000-012-05-02       | OPEN |
| 04 | Bently Nevada 146054-08-05-02-05         | OPEN |
| 05 | Bently Nevada 146054-12-05-02-05         | OPEN |
| 06 | Bently Nevada 200152-15-00               | OPEN |
| 07 | Bently Nevada 330730-080-13-05           | OPEN |
| 08 | Bently Nevada 330180-X1-05 MOD:161255-02 | OPEN |
| 09 | Bently Nevada 330180-X1-05 MOD:145004-66 | OPEN |
| 10 | Bently Nevada 330801-28-04-105-00-02     | OPEN |
| 11 | Bently Nevada 330880-28-15-106-00-02     | OPEN |
| 12 | Bently Nevada 330101-20-45-05-02-05      | OPEN |

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