

INDUSTRIAL AUTOMATION PRODUCT

330104-11-25-10-02-00

3300 XL 8 mm M10 x 1 armored proximity probe

Non-contact eddy-current displacement signal for a 3300 XL 8 mm measurement chain

| IDENTITY      | VERIFIED VALUE                           |
|---------------|------------------------------------------|
| Manufacturer  | Bently Nevada                            |
| System family | 3300 XL 8 mm Proximity Transducer System |
| Part number   | 330104-11-25-10-02-00                    |
| Country       | USA                                      |
| HS code       | 8537101190                               |

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## 2

## Technical Specifications

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

| PARAMETER              | VALUE                            |
|------------------------|----------------------------------|
| Probe model            | 330104                           |
| Probe thread           | M10 x 1                          |
| Aarmor                 | Yes                              |
| Unthreaded length      | 110 mm                           |
| Overall case length    | 250 mm                           |
| Total probe length     | 1.0 m (3.3 ft)                   |
| Connector              | Miniature coaxial ClickLoc       |
| Probe cable            | Standard                         |
| Agency approval option | Not required                     |
| Probe DC resistance    | 7.59 +/-0.50 Ohm                 |
| Power without barriers | -17.5 to -26 V DC; 12 mA maximum |

| PARAMETER                        | VALUE                                     |
|----------------------------------|-------------------------------------------|
| 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 mm <sup>2</sup> (16 to 24 AWG) |
| Maximum field-wire length        | 305 m (1000 ft)                           |
| Linear range                     | 2.0 mm (80 mils)                          |
| Linear-range limits              | 0.25 to 2.30 mm (10 to 90 mils)           |
| Recommended radial-vibration gap | -9 V DC; approximately 1.27 mm (50 mils)  |
| Incremental scale factor         | 7.87 V/mm (200 mV/mil)                    |
| Frequency response               | 0 to 10 kHz; +/-3 dB                      |
| Extension-cable capacitance      | 69.9 pF/m typical                         |

### VERIFIED PRODUCT RECORD

| DATA GROUP                 | VERIFIED VALUE                            |
|----------------------------|-------------------------------------------|
| Installed host / carrier   | 3300 XL 8 mm Proximito Sensor             |
| Companion hardware         | Compatible 3300 XL extension cable        |
| Field connection           | AISI 4140 target surface                  |
| Primary system function    | Uses an M10 x 1 armored metric probe body |
| Controlled acceptance duty | Long-case radial vibration                |

3

System Role and Architecture

Non-contact eddy-current displacement signal for a 3300 XL 8 mm measurement chain

FUNCTION 1

Uses an M10 x 1 armored metric probe body

FUNCTION 2

Combines a 250 mm case with 110 mm unthreaded length

FUNCTION 3

Provides a 1.0 m standard probe cable

FUNCTION 4

Supports the documented 2 mm 3300 XL linear span

Matched system components

- 3300 XL 8 mm Proximitor Sensor
- Compatible 3300 XL extension cable
- AISI 4140 target surface
- 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        |
| Field connection           | AISI 4140 target surface                  |
| Primary system function    | Uses an M10 x 1 armored metric probe body |
| Controlled acceptance duty | Long-case radial vibration                |

4

# Applications and Engineering Context

Long-case radial vibration

Uses an M10 x 1 armored metric probe body

Axial position monitoring

Combines a 250 mm case with 110 mm unthreaded length

Deep-bracket probe mounting

Provides a 1.0 m standard probe cable

Metric 8 mm loop renewal

Supports the documented 2 mm 3300 XL linear span

TECHNICAL NOTE

Verify the 110 mm unthreaded length, 250 mm case and bracket clearance; match the one-metre lead to the complete 3300 XL system length.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

| CHECK              | ACCEPTANCE CONDITION                                   |
|--------------------|--------------------------------------------------------|
| Identity           | 330104-11-25-10-02-00 / 330104-11-25-10-02-00 recorded |
| Physical interface | 3300 XL 8 mm Proximitior Sensor                        |
| Companion check    | Compatible 3300 XL extension cable                     |
| Functional proof   | Uses an M10 x 1 armored metric probe body              |
| Application test   | Long-case radial vibration                             |

5

## Engineering Precautions

- 1 Verify the complete 330104-11-25-10-02-00 marking, M10 x 1 armored construction and assigned measuring point before work.
- 2 Place the monitored machine and its protection channel in the approved maintenance state before disturbing the probe.
- 3 Protect the probe tip and M10 x 1 armored interface from impact, burrs, contamination and unintended side-view metal.
- 4 Route and support the 1.0 m probe lead without sharp bends, crushing, tensile load or contact with hot and moving surfaces.
- 5 Keep every ClickLoc interface clean, dry and fully engaged; preserve connector-protector hardware where supplied.

### RELATED PRODUCTS ON APTER POWER

| MODEL                   | SYSTEM ROLE                   | APTER POWER PAGE                                  |
|-------------------------|-------------------------------|---------------------------------------------------|
| 330104-04-10-50-02-05   | Related Bently Nevada product | <a href="#">View 330104-04-10-50-02-05 page</a>   |
| 330101-51-82-10-01-05   | Related Bently Nevada product | <a href="#">View 330101-51-82-10-01-05 page</a>   |
| 330101-35-62-10-01-05   | Related Bently Nevada product | <a href="#">View 330101-35-62-10-01-05 page</a>   |
| 330102-00-83-50-02-05   | Related Bently Nevada product | <a href="#">View 330102-00-83-50-02-05 page</a>   |
| 330104-00-09-50-02-00   | Related Bently Nevada product | <a href="#">View 330104-00-09-50-02-00 page</a>   |
| 330104-00-09-90-02-00   | Related Bently Nevada product | <a href="#">View 330104-00-09-90-02-00 page</a>   |
| 330101-00-24-10-12-05   | Related Bently Nevada product | <a href="#">View 330101-00-24-10-12-05 page</a>   |
| 330710-000-050-50-02-00 | Related Bently Nevada product | <a href="#">View 330710-000-050-50-02-00 page</a> |

### MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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