

INDUSTRIAL AUTOMATION PRODUCT

330901-10-25-10-02-00

NSv Proximity Probe

Bently Nevada 330901-10-25-10-02-00 is an unarmored 1/4-28 UNF 3300 XL NSv proximity probe with 2.5 in case identity, 1.0 m probe lead and miniature clickloc coaxial connector with standard cable.

| IDENTITY      | VERIFIED VALUE                          |
|---------------|-----------------------------------------|
| Manufacturer  | Bently Nevada                           |
| System family | 3300 XL NSv Proximity Transducer System |
| Part number   | 330901-10-25-10-02-00                   |

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Technical Specifications

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

| PARAMETER                  | TECHNICAL VALUE                                          |
|----------------------------|----------------------------------------------------------|
| probe family               | 3300 XL NSv                                              |
| mounting thread            | 1/4-28 UNF                                               |
| cable protection           | Unarmored                                                |
| unthreaded length code     | 1.0 in                                                   |
| overall case-length code   | 2.5 in                                                   |
| total probe-lead length    | 1.0 m                                                    |
| connector and cable option | miniature ClickLoc coaxial connector with standard cable |
| agency-approval option     | not required                                             |
| linear measurement range   | 1.5 mm (60 mils)                                         |
| incremental scale factor   | 7.87 V/mm (200 mV/mil)                                   |
| frequency response         | 0 to 10 kHz, +0/-3 dB typical                            |
| recommended gap            | 1.0 mm (40 mils)                                         |

ENGINEERING DATA SUMMARY

| DATA GROUP                 | VERIFIED ASSIGNMENT                                  |
|----------------------------|------------------------------------------------------|
| Installed host / carrier   | matched 3300 XL NSv extension cable                  |
| Companion hardware         | compatible 3300 XL NSv Proximitors Sensor            |
| Field connection           | approved target surface                              |
| Primary system function    | Uses the compact 3300 XL NSv transducer architecture |
| Controlled acceptance duty | Small-target shaft vibration                         |



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System Role and Architecture

Bently Nevada 330901-10-25-10-02-00 is an unarmored 1/4-28 UNF 3300 XL NSv proximity probe with 2.5 in case identity, 1.0 m probe lead and miniature clickloc coaxial connector with standard cable.

FUNCTION 1

Uses the compact 3300 XL NSv transducer architecture

FUNCTION 2

Provides the documented 1/4-28 UNF mounting identity

FUNCTION 3

Retains the 1.0 m probe-lead option

FUNCTION 4

Uses the miniature clickloc coaxial connector with standard cable connection option

Matched system components

- matched 3300 XL NSv extension cable
- compatible 3300 XL NSv Proximitior Sensor
- approved target surface
- configured monitor channel

SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                                      |
|----------------------------|------------------------------------------------------|
| Installed host / carrier   | matched 3300 XL NSv extension cable                  |
| Companion hardware         | compatible 3300 XL NSv Proximitior Sensor            |
| Field connection           | approved target surface                              |
| Primary system function    | Uses the compact 3300 XL NSv transducer architecture |
| Controlled acceptance duty | Small-target shaft vibration                         |



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# Applications and Engineering Context

**Small-target shaft vibration**

Uses the compact 3300 XL NSv transducer architecture

**Axial position monitoring**

Provides the documented 1/4-28 UNF mounting identity

**Tight-clearance installation**

Retains the 1.0 m probe-lead option

**Exact NSv probe replacement**

Uses the miniature clickloc coaxial connector with standard cable connection option

**TECHNICAL NOTE**

Match 330901-10-25-10-02-00 to the documented 3300 XL NSv system length, probe geometry, connector, target, gap and host-channel configuration.

**MODEL-SPECIFIC ACCEPTANCE EVIDENCE**

| CHECK              | ACCEPTANCE CONDITION                                   |
|--------------------|--------------------------------------------------------|
| Identity           | 330901-10-25-10-02-00 / 330901-10-25-10-02-00 recorded |
| Physical interface | matched 3300 XL NSv extension cable                    |
| Companion check    | compatible 3300 XL NSv Proximity Sensor                |
| Functional proof   | Uses the compact 3300 XL NSv transducer architecture   |
| Application test   | Small-target shaft vibration                           |



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## Engineering Precautions

- 1 Verify the complete 330901-10-25-10-02-00 marking and its assigned 3300 XL NSv Proximity Transducer System position before work.
- 2 Place the connected small-target shaft vibration process in the approved maintenance state.
- 3 Isolate the documented power, signal and stored-energy sources before disconnecting the transducer or module.
- 4 Record every connector, cable route, shield, polarity, channel assignment and host configuration before removal.
- 5 Use ESD-safe handling and protect coaxial, terminal and keyed interfaces from contamination or mechanical damage.

### RELATED BENTLY NEVADA PRODUCTS ON APTER POWER

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| Bently Nevada 24701 34 05 00 041 03 02   | Bently Nevada monitoring product | <a href="#">Open Bently Nevada page</a> |
| Bently Nevada 84661 34                   | Bently Nevada monitoring product | <a href="#">Open Bently Nevada page</a> |

### MANUFACTURER SOURCE RECORD

3300 XL NSv Proximity Transducer System Datasheet

147385 Rev. R

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