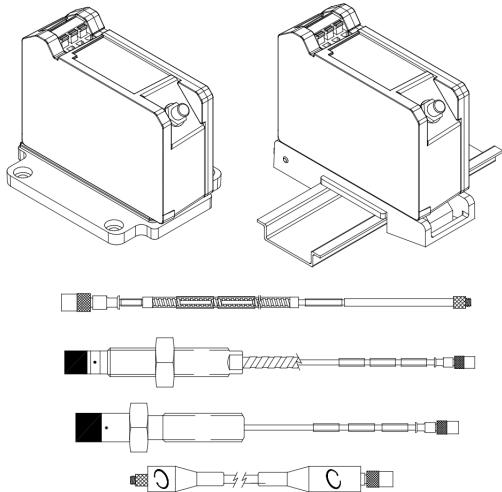


3300 XL NSv Proximity Transducer System

Datasheet

Cordant™

147385 Rev. R



Description

The 3300 XL NSv Proximity Transducer system is intended for use with centrifugal air compressors, refrigeration compressors, process gas compressors, and other machines with tight installation requirements. The 3300 XL NSv Proximity Transducer System consists of:

- a 3300 NSv probe
- a 3300 NSv extension cable
- a 3300 XL NSv Proximitior Sensor⁽¹⁾

The primary uses for the 3300 XL NSv Transducer System are for areas where counter bore, sideview, or rearview restrictions limit the use of standard Bently Nevada 3300 and 3300 XL 5 and 8 mm Transducer Systems. It is also ideal for small target applications, such as measuring radial vibration on shafts smaller than 51 mm (2 in) or axial position on flat targets smaller than 15 mm (0.6 in). It is primarily used in the following applications on fluid-filmed bearing machines where a small shaft or reduced side-view is present:

- Radial vibration and radial position measurements
- Axial (thrust) position measurements
- Tachometer and zero speed measurements
- Phase reference (Keyphasor signals)

The 3300 XL NSv Transducer System design allows it to replace both the 3300 RAM Transducer Systems and the 3000-series or 7000-series 190 Transducer System. Upgrades from the 3300 RAM system to the 3300 XL NSv system may use the existing probe, extension cable, and monitoring



Baker Hughes 

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| <p>05</p> <p>Multiple Approvals</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #e0f2e0; margin-top: 10px;">  For a shorter delivery time, order commonly stocked probes. Currently, stocked probes consist of the following part numbers: 330901-00-24-05-02-00, 330901-00-90-05-02-00, 330902-00-50-05-02-00, 330902-00-95-05-02-00, 330903-00-02-10-02-00, 330903-00-03-10-02-00, 330906-02-12-05-02-00. </div> |
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3300 XL NSv Proximity Sensor

330980-AA-BB

A: Total Length and Mounting Option

| | |
|------------------|---|
| <p>50</p> | 5.0 meters (16.4 feet) system length, panel mount |
| <p>51</p> | 5.0 meters (16.4 feet) system length, DIN mount |
| <p>52</p> | 5.0 meters (16.4 feet) system length, no mounting hardware ¹ |
| <p>70</p> | 7.0 meters (23.0 feet) system length, panel mount |
| <p>71</p> | 7.0 meters (23.0 feet) system length, DIN mount |
| <p>72</p> | 7.0 meters (23.0 feet) system length, no mounting hardware ¹ |

B: Agency Approval Option

| | |
|------------------|--------------------|
| <p>00</p> | Not required |
| <p>05</p> | Multiple approvals |

3300 NSv Extension Cable

330930-AAA-BB-CC



Make sure that the extension cable length and the probe length, when added together, equal the Proximity Sensor total length.

A: Cable Length Option

| | |
|-------------------|------------------------|
| <p>040</p> | 4.0 meters (13.1 feet) |
| <p>045</p> | 4.5 meters (14.8 feet) |
| <p>060</p> | 6.0 meters (19.7 feet) |
| <p>065</p> | 6.5 meters (21.3 feet) |

B: Connector and Cable Option

| | |
|------------------|--|
| <p>00</p> | Without stainless steel armor |
| <p>01</p> | With stainless steel armor, with FEP jacket |
| <p>02</p> | With stainless steel armor, without FEP jacket |
| <p>03</p> | Without stainless steel armor, with connector protector |
| <p>04</p> | With stainless steel armor, with FEP jacket, with connector protector |
| <p>05</p> | With stainless steel armor, without FEP jacket, with connector protector |
| <p>06</p> | FluidLoc cable without stainless steel armor |
| <p>07</p> | FluidLoc cable with stainless steel armor, with FEP jacket |
| <p>08</p> | FluidLoc cable with stainless steel armor, without FEP jacket |
| <p>09</p> | FluidLoc without stainless steel armor, with connector protector |

| | | | |
|----------------------------------|---|-----------|--|
| 10 | FluidLoc cable with stainless steel armor, with FEP jacket, with connector protector | | |
| 11 | FluidLoc cable with stainless steel armor, without FEP jacket, with connector protector | 03200006 | Silicone self-fusing tape. A 9.1 meter (10 yard) roll of silicone tape to protect connectors. It is easy to install and provides excellent electrical isolation and protection from the environment. It is not recommended for use inside the casing of the machine. |
| C: Agency Approval Option | | | |
| 00 | Not Required | | |
| 05 | Multiple Approvals | | |
| Accessories | | | |
| 147357 | 3300 XL NSv Proximitior User Guide | | |
| 02120015 | Bulk field wire. 1.0 mm ² (18 AWG), 3 conductor, twisted, shielded cable with drain wire. Specify length in feet. | 136536-01 | Connector Protector Adapter. Allows connector protector installation tools manufactured prior to 1998 to be used with 75 Ω ClickLoc connectors. |
| 138492-01 | Replacement panel-mount mounting pad | 40180-03 | Connector Protectors. Package contains 10 pairs of connector protectors. |
| 138493-01 | Replacement DIN-mount mounting pad | 03800000 | Male Connector Protector. Placed on the extension cable to connect to the female connector protector on the probe and provide environmental protection of connectors. |
| 01609137 | BNC (F) to banana plugs | 03800001 | Female Connector Protector. Placed on the probe lead to connect to the male connector protector on the extension cable and provide environmental protection of connectors. Also placed on the extension cable to slide over the Proximitior Sensor connection and protect it from the environment. |
| 01609138 | Proximitior Connector Test Pin wiring (two test pins to a BNC (F) connector) | 330153-05 | 3300 NSv Connector Kit. Used on 3300 NSv probes and extension cables. Contains one set of male and female ClickLoc connectors, sleeves and one strip of silicone tape. |
| 40971-04 | 50 Ω cable with two BNC (M) connectors. Use this cable in combination with adapter 01609137 and adapter 01609138 when checking performance of the transducer system from the Proximitior Sensor test pin holes. | | |
| 04310310 | 3300 XL Proximitior Sensor Panel-mount Screws. Package includes one 6-32 UNC thread forming mounting screw (supplied standard with 3300 XL Proximitior Housings [3300 XL option]). | | |

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| | <p>Connector Crimp Tool Kit. Includes one set of 75 Ω ClickLoc inserts and connector installation instructions. Supplied with carrying case.</p> <p>Notes:</p> <p>1. 330980 Proximity Sensor A: options 52 and 72 come without a mounting pad and should be ordered only as spares. Each Proximity Sensor needs a mounting pad to ensure that it is properly isolated from the housing ground.</p> |
| 163356 | |