

## Proximity Probe and Extension Cable

The 3300 XL probe and extension cable also reflect improvements over previous designs. A patented TipLoc\* molding method provides a more robust bond between the probe tip and the probe body. The probe's cable incorporates a patented CableLoc\* design that provides 330 N (75 lbf) pull strength to more securely attach the probe cable and probe tip.

You can also order 3300 XL 8 mm probes and extension cables with an optional FluidLoc\* cable option. This option prevents oil and other liquids from leaking out of the machine through the cable's interior.

## Connectors

The 3300 XL probe, extension cable, and Proximitor sensor have corrosion-resistant, gold-plated ClickLoc\* connectors. These connectors require only finger-tight torque (the connectors will "click" when tight), and the specially-engineered locking mechanism prevents the connectors from loosening. These connectors require no special tools for installation or removal.

You can order the 3300 XL 8 mm probes and extension cables with connector protectors already installed. We can also supply connector protectors separately for field installations (such as when an application must run the cable through restrictive conduit). We recommend connector protectors for all installations to provide increased environmental protection<sup>8</sup>.

## Extended Temperature Range Applications

An extended temperature range (ETR) probe and ETR extension cable are available for applications in which either the probe lead or extension cable may exceed the standard 177 °C (350 °F) temperature specification. The ETR probe has an extended temperature rating for up to 218 °C (425 °F). The ETR extension cable rating is up to 260 °C (500 °F). Both the ETR probe and cable are compatible with standard temperature probes and cables, for example, you can utilize an ETR probe with the 330130 extension cable. The ETR system uses the standard 3300 XL Proximitor Sensor. Note that when you use any ETR component as part of your system, the ETR component limits the system accuracy to the accuracy of the ETR system.

## Description Notes:

1. One-metre systems do not use an extension cable.
2. Proximitor sensors are supplied by default from the factory calibrated to AISI 4140 steel. Calibration to other target materials is available upon request.
3. Consult Bently Nevada\* Applications Note, *Considerations when using Eddy Current Proximity Probes for Overspeed Protection Applications*, when considering this transducer system for tachometer or overspeed measurements.
4. 3300 XL 8 mm components are both electrically and physically interchangeable with non-XL 3300 5 mm and 8 mm components. Although the packaging of the 3300 XL Proximitor Sensor differs from its predecessor, its design fits in the same 4-hole mounting pattern when used with the 4-hole mounting base, and will fit within the same mounting space specifications (when minimum permissible cable bend radius is observed).
5. Mixing XL and non-XL 3300-series 5 mm and 8 mm system components limits system performance to the specifications for the non-XL 3300 5 mm and 8 mm Transducer System.
6. The 3300-series 5 mm probe (refer to Specifications and Ordering Information p/n 141605-01) uses smaller physical packaging, but does not reduce the side view clearances or tip-to-tip spacing requirements as compared to an 8 mm probe. It is used when physical (not electrical) constraints preclude the use of an 8 mm probe. When your application requires narrow side view probes, use the 3300 NSv\* Proximity Transducer System (refer to Specifications and Ordering Information p/n 147385-01).
7. 8 mm probes provide a thicker encapsulation of the probe coil in the molded PPS plastic probe tip. This results in a more rugged probe. The larger diameter of the probe body also provides a stronger, more robust case. We recommend that you use 8 mm probes when possible to provide optimal robustness against physical abuse.
8. Each 3300 XL extension cable includes silicone tape that you can use instead of connector protectors. We do not recommend silicone tape for applications that will expose the probe-to-extension cable connection to turbine oil.

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## Ordering Information Extension Cables

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### 3300 XL Standard Extension Cable

#### 330130-AXXX-BXX-CXX

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

**A:** Cable Length Option

<b>030</b>	3.0 metres (9.8 feet)
<b>035</b>	3.5 metres (11.5 feet)
<b>040</b>	4.0 metres (13.1 feet)
<b>045</b>	4.5 metres (14.8 feet)
<b>060</b>	6.0 metres (19.7 feet)
<b>070</b>	7.0 metres (22.9 feet)
<b>075</b>	7.5 metres (24.6 feet)
<b>080</b>	8.0 metres (26.2 feet)
<b>085</b>	8.5 metres (27.9 feet)

**B:** Connector Protector and Cable Option

<b>00</b>	Standard cable
<b>01</b>	Armored cable
<b>02</b>	Standard cable with connector protector
<b>03</b>	Armored cable with connector protector
<b>10</b>	FluidLoc cable
<b>11</b>	Armored FluidLoc cable
<b>12</b>	FluidLoc cable with connector protector
<b>13</b>	Armored FluidLoc cable with connector protector

**C:** Agency Approval Option

<b>00</b>	Not required
<b>05</b>	CSA, ATEX, IECEx Approvals

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### 3300 XL Extended Temperature Range (ETR) Extension Cable

#### 330190-AXXX-BXX-CXX

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

**A:** Cable Length Option

<b>030</b>	3.0 metres (9.8 feet)
<b>035</b>	3.5 metres (11.5 feet)
<b>040</b>	4.0 metres (13.1 feet)
<b>045</b>	4.5 metres (14.8 feet)
<b>070</b>	7.0 metres (22.9 feet)
<b>075</b>	7.5 metres (24.6 feet)
<b>080</b>	8.0 metres (26.2 feet)
<b>085</b>	8.5 metres (27.9 feet)

**B:** Cable Option

<b>00</b>	Standard cable
<b>01</b>	Armored cable

**C:** Agency Approval Option

<b>00</b>	Not required
<b>05</b>	CSA, ATEX, IECEx Approvals