

# 3300 XL 8 mm Proximity Transducer System

## Datasheet

Cordant™

141194 Rev. AM



## Description

The 3300 XL 8 mm Proximity Transducer System consists of:

- One 3300 XL 8 mm probe,
- One 3300 XL extension cable<sup>1</sup>, and
- One 3300 XL ProximitoR Sensor<sup>2</sup>.

The system provides an output voltage that is directly proportional to the distance between the probe tip and the observed conductive surface and can measure both static (position) and dynamic (vibration) values. The system's primary applications are vibration and position measurements on fluid-film bearing machines, as well as Keyphasor reference and speed measurements<sup>3</sup>.

The 3300 XL 8 mm system delivers the most advanced performance in our eddy current proximity transducer systems. The standard 3300 XL 8 mm 5-meter system also fully complies with the American Petroleum Institute's (API) 670 Standard for mechanical configuration, linear range, accuracy, and temperature stability. All 3300 XL 8 mm proximity transducer systems provide this level of performance and support complete interchangeability of probes, extension cables, and ProximitoR sensors, eliminating the need to match or bench calibrate individual components.

Each 3300 XL 8 mm Transducer System component is backward compatible and interchangeable<sup>4</sup> with other non-XL 3300 series 5 mm and 8 mm transducer system components<sup>5</sup>. This compatibility includes the 3300 5 mm probe, for applications in which an 8 mm probe is too large for the available mounting space<sup>6,7</sup>.



Baker Hughes 

### 3300 XL 8 mm Proximity Probes, Smooth Case:

**330140** 3300 XL 8 mm Probe without armor(1)

**330141** 3300 XL 8 mm Probe with armor(1)

#### Part Number-AA-BB-CC-DD

##### A: Overall Case Length Option

Order in increments of 0.1 in.

##### Length configurations:

Maximum unthreaded length: 9.6 in.

Minimum unthreaded length: 0.8 in.

Example: **24** = 2.4 in.

##### B: Total Length Option

<b>05</b>	0.5 meter (1.6 feet)
<b>10</b>	1.0 meter (3.3 feet)
<b>15</b>	1.5 meter (4.9 feet)
<b>20</b>	2.0 meters (6.6 feet)
<b>50</b>	5.0 meters (16.4 feet)
<b>90</b>	9.0 meters (29.5 feet)



5-meter probes are designed for use with the 5 meter Proximitor sensor only.

##### C: Connector and Cable-Type Option

<b>01</b>	Miniature coaxial ClickLoc connector with connector protector, standard cable
<b>02</b>	Miniature coaxial ClickLoc connector, standard cable
<b>11</b>	Miniature coaxial ClickLoc connector with connector protector, FluidLoc cable
<b>12</b>	Miniature coaxial ClickLoc connector, FluidLoc cable

##### D: Agency Approval Option

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

### 3300 XL 8 mm Extended Temperature Range (ETR) Proximity Probes:

**330191** 3300 XL 8 mm ETR Probe, 3/8-24 UNF thread, without armor

**330192** 3300 XL 8 mm ETR Probe, 3/8-24 UNF thread, with armor

#### Part Number-AA-BB-CC-DD

##### A: Unthreaded Length Option



Unthreaded length must be at least 0.8 in. less than the case length.

Order in increments of 0.1 in.

##### Length configurations:

Maximum unthreaded length: 8.8 in.

Minimum unthreaded length: 0.0 in.

Example: **15** = 1.5 in.

##### B: Overall Case Length Option

Order in increments of 0.5 in.

##### Standard thread configurations:

Maximum case length: 9.6 in.

Minimum case length: 0.8 in.

Example: **25** = 2.5 in.

##### C: Total Length Option

<b>05</b>	0.5 meter (1.6 feet)
<b>10</b>	1.0 meter (3.3 feet)
<b>15</b>	1.5 meter (4.9 feet)
<b>20</b>	2.0 meters (6.6 feet)
<b>50</b>	5.0 meters (16.4 feet)
<b>90</b>	9.0 meters (29.5 feet)



5-meter probes are designed for use with the 5 meter Proximitor sensor only.

**D: Agency Approval Option**

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


**3300 XL 8 mm Extended Temperature Range (ETR) Proximity Probes, Metric:**

**330193** 3300 XL 8 mm Probe, M10 x 1 thread, without armor

**330194** 3300 XL 8 mm Probe, M10 x 1 thread, with armor

**Part Number-AA-BB-CC-DD**

**A: Unthreaded Length Option**

 Unthreaded length must be at least 20 mm less than the case length.

Order in increments of 10 mm

**Length configurations:**

Maximum unthreaded length: 230 mm

Minimum unthreaded length: 0 mm

Example: **0 6** = 60 mm

**B: Overall Case Length Option**

Order in increments of 10 mm

**Metric thread configurations:**

Maximum case length: 250 mm

Minimum case length: 20 mm

Example: **0 6** = 60 mm

**C: Total Length Option**

<b>05</b>	0.5 meter (1.6 feet)
<b>10</b>	1.0 meter (3.3 feet)
<b>15</b>	1.5 meter (4.9 feet)
<b>20</b>	2.0 meters (6.6 feet)
<b>50</b>	5.0 meters (16.4 feet)
<b>90</b>	9.0 meters (29.5 feet)



5-meter probes are designed for use with the 5 meter Proximitor sensor only.

**D: Agency Approval Option**

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

**3300 XL 8 mm Extended Temperature Range (ETR) Reverse Mount Probes**

**330195-02-12-CC-DD** 3/8-24 UNF threads

**330196-05-30-CC-DD** M10 x 1 threads

**C: Total Length Option**

<b>05</b>	0.5 meter (1.6 feet)
<b>10</b>	1.0 meter (3.3 feet)
<b>15</b>	1.5 meter (4.9 feet)
<b>20</b>	2.0 meters (6.6 feet)
<b>50</b>	5.0 meters (16.4 feet)
<b>90</b>	9.0 meters (29.5 feet)



5-meter probes are designed for use with the 5 meter Proximitor sensor only.

**D: Agency Approval Option**

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

**3300 XL 8 mm Extended Temperature Range (ETR) Proximity Probes, Smooth Case:**

**330197** 3300 XL 8 mm Probe without armor 1

**330198** 3300 XL 8 mm Probe with armor 1

**Part Number-AA-BB-CC**