3300 XL Underwater Probes

Datasheet

Cordant™

175852 Rev. G



Description

3300 XL underwater probes are designed specifically for applications involving constant exposure to liquids, such as those in hydroelectric plants or sewage treatment facilities. These designs also seal the probes against gases. All our underwater probes are rated to 500 psi (34 Bar) on the interface between the tip and probe casing. Contact a sales representative for applications that require higher pressure ratings.

All of the underwater probes are compatible with standard 3300 XL Proximitor Sensors and extension cables. Note that these probes each belong to a different family (8mm, 11mm, or 25mm) and consequently require different Proximitor Sensors and extension cables. Refer to the standard data product sheets to obtain ordering information for the 8mm, 11mm, and 25mm transducer systems.

The 100630, 148239, and 174985 probes were developed for applications in which the entire probe is submerged or exposed to fluids. Tubing attached to the probe case protects the probe cable, but the connector end of the probe is not sealed against liquids and must not be submerged. In addition, the probe case is made of 304 Stainless Steel and is not suitable for salt-water applications. Contact a sales representative if you have an application involving salt water.

Baker Hughes

Specifications

Electrical and Mechanical

The electrical and mechanical specifications for each of these probes are the same as standard product for the 8mm, 11mm, and 25mm systems.

Reference data sheets as follows for complete specifications

Probe 100630	3300 XL 8mm System datasheet document 141194.
Probe 148239	3300 XL 11mm System datasheet document 146256.
Probe 174985	3300 XL 25mm System datasheet document 163236

Environmental Limits

Probe Temperature Range

Operating and Storage Temperature	-51 °C to +177 °C (-60 °F to +351 °F)
Probe Pressure	Rated to seal 34 Bar (500 psi) Nitrogen. Modifications are available for applications involving higher pressures. Contact a Sales Representative if your application requires a test of the pressure seal.[1]

(1) It is the responsibility of the customer or user to ensure that all liquids and gases are contained and safely controlled should leakage occur from a proximity probe. Bently Nevada does not be held responsible for any damages resulting from leaking proximity probes.

Ordering Information

For the detailed listing of country and product-specific approvals, refer to the *Approvals Quick Reference Guide (108M1756)*.

For additional technical documentation, please log in to bntechsupport.com and access the Bently Nevada Media Library.

3300 XL 8mm Underwater Proximity Probe

100630 3/8-24 UNF thread, sealed case with Tefzel Tubing

100630-AA-BB-CC-DD

A: Unthreaded Length Option

Unthreaded length must be at least 0.7 in. less than the case length.

Length configurations:
Order in increments of 0.1 in
Maximum unthreaded length: 9.6 in
Minimum unthreaded length: 0.8 in
Example: 04 = 0.4 in.

B: Overall Case Length Option

Length configurations:
Order in increments of 0.1 in
Maximum unthreaded length: 8 9 = 8.9 in
Minimum unthreaded length: 0 0 = 0.0 in
Example: 24 = 2.4 in.

C: Total Length Option

05	0.5 metre (1.6 feet)
10	1.0 metre (3.3 feet)
15	1.5 metre (4.9 feet)
20	2.0 metres (6.6 feet)
50	5.0 metres (16.4 feet)
90	9.0 metres (29.5 feet)

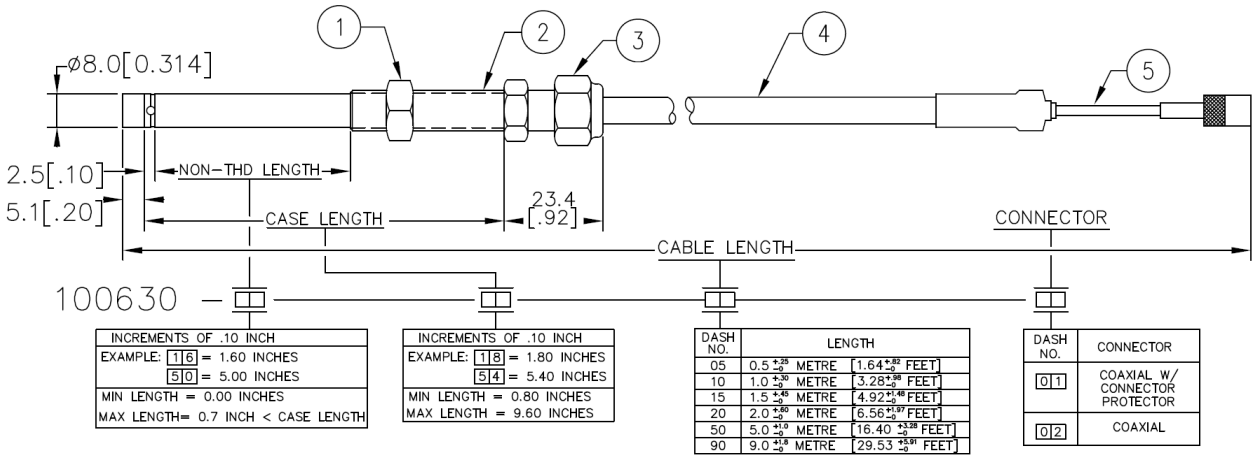
D: Connector and Cable Type Option

01	Miniature coaxial ClickLoc connector with connector protector, standard cable
02	Miniature coaxial ClickLoc connector, standard cable

E: Agency Approval Option

00	Not Required
05	CSA, ATEX, IECEx Approvals

Graphs and Figures



1. Jam nut 9/16 inch wrench flats
2. Probe threads, 3/8-24 UNF 2A
3. Swagelok fitting, used to secure tubing to probe case. Do not loosen this fitting.
4. Tefzel tubing 0.25 inch outside diameter
5. Triaxial cable, 0.150 inch maximum diameter

Figure 1: Probe 100630, 3300 XL 8mm 3/8-24 Thread Forward Mount

Agency Approval Option	
00	Not Required
05	CSA, ATEX, IECEx Approvals