

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada 330101-00-20-90-12-05
3300 XL 8 mm standard-mount probe



OFFICIAL 3300 XL 8 mm SERIES IMAGE

PROBE TIP	THREAD	BEND RADIUS	CABLE
8.0 mm	3/8-24 UNF	25.4 mm min.	9.0 m FluidLoc

Prepared by Amikon Limited from official Datasheet 141194 Rev. AM. This draft does not replace System Manual 141078, site procedures, controlled hazardous-area drawings, or approval documents.

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CONFIRM THE ORDERED CONFIGURATION

Probe	3300 XL 8 mm, standard forward mount
Thread / armor	3/8-24 UNF-2A, without armor
Case	0.0 in unthreaded length; 2.0 in overall case length
Cable	9.0 m FluidLoc cable; ClickLoc connector; no connector protector
System match	Compatible 9.0 m 3300 XL Proximity Sensor; no extension cable
Approval option	05 - CSA, ATEX, and IECEx

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MECHANICAL MOUNTING

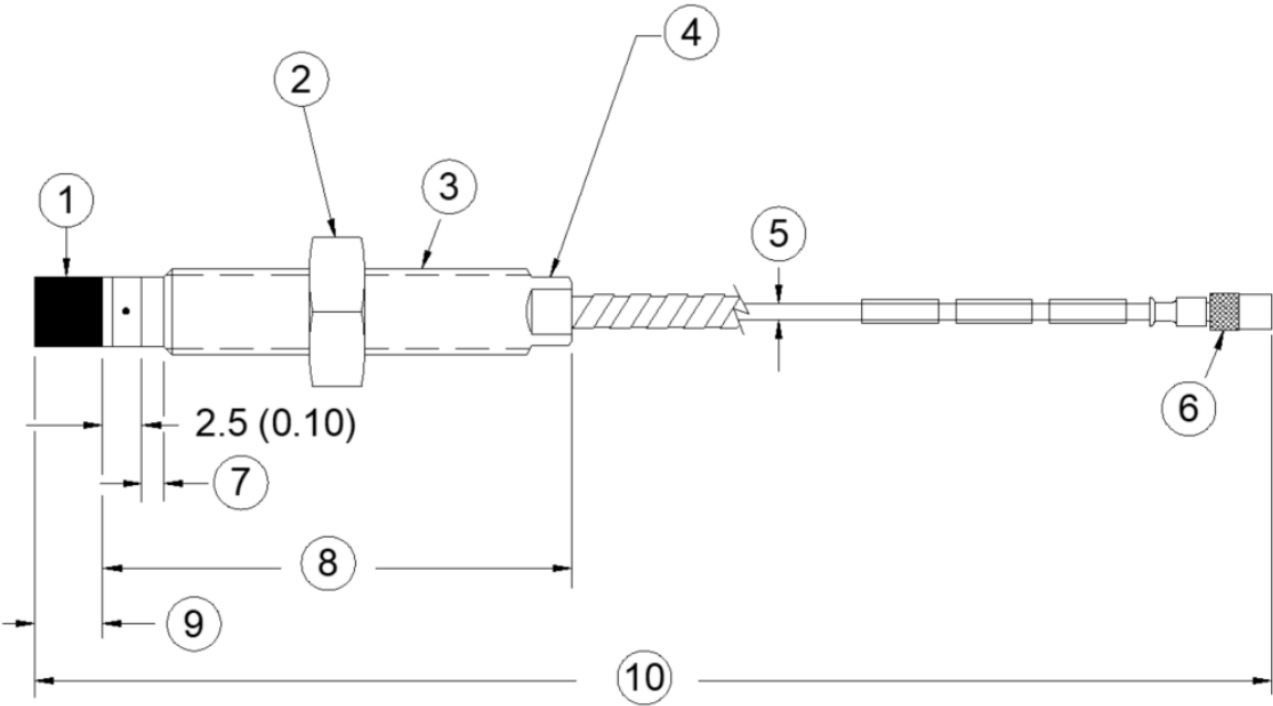
- Verify the complete order number and approval marking before installation.
- Use the 3/8-24 UNF threaded case and suitable locking hardware.
- Do not exceed 0.563 in thread engagement; greater engagement can cause binding.
- Use the 5/16 in wrench flats when positioning the standard 3/8-24 probe.
- Recommended probe-case torque: 11.2 N*m (100 in*lb). Maximum rated torque: 33.9 N*m (300 in*lb).
- Protect the 8.0 mm probe tip from impact and do not force the case during installation.

OFFICIAL DRAWING REFERENCE

For the complete manufacturer drawing, see Datasheet 141194 Rev. AM page 35: 3300 XL 8 mm Proximity Probes, Standard Mount. The applicable drawing is reproduced on the following page.

03 MECHANICAL INSTALLATION DRAWING

The official manufacturer drawing shows the standard-mount geometry for the 330101 and 330191 probe families with 3/8-24 UNF-2A threads and without armor. The current complete order number uses the 330101 base code.



3300 XL 8 mm Proximity Probes, Standard Mount

1 Probe tip, 8.0 mm (0.31 in) diameter	6 Miniature male coaxial connector, 7.24 mm (0.285 in) maximum outside diameter D
2 9/16 in for 3/8-24 threads; M17 for M10 threads	7 Unthreaded length A
3 Case thread	8 Case length B
4 5/16 in wrench flats for 3/8-24 threads; 8 mm wrench flats for M10 threads	9 6.0 mm (0.235 in) maximum
5 Cable and armor outside-diameter reference	10 Total length C, +30%, -0%

Source: Bently Nevada Datasheet 141194 Rev. AM, page 35. Use the current controlled manufacturer drawing and product approval marking for installation; this reference image does not replace controlled installation drawings.

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CABLE ROUTING AND CONNECTION

- Maintain a 25.4 mm (1.0 in) minimum cable bend radius.
- Route the 9.0 m FluidLoc cable directly to the compatible 9.0 m Proximity Sensor; no extension cable is used.
- Keep the cable clear of sharp edges, crush points, and unsupported high-stress bends.
- Mate the ClickLoc connector and tighten finger tight until it clicks.
- Do not exceed 0.565 N*m (5 in*lb) connector torque.
- The selected order code does not include a connector protector; follow the manufacturer guidance for connector protection.

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INITIAL GAP AND SYSTEM CHECKS

- Complete wiring at the compatible Proximity Sensor using the current manufacturer manual and applicable controlled drawing.
- Under official test conditions, the system-level recommended radial-vibration gap is approximately -9 Vdc, corresponding to about 1.27 mm (50 mils).
- Confirm that the system output changes smoothly as probe-to-target distance changes.
- Confirm monitor channel configuration before returning the machine to service.
- For speed or overspeed measurement, consult the manufacturer application note referenced by Datasheet 141194 Rev. AM.

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CONTROLLED DOCUMENTS

141078	3300 XL 8 mm and 3300 5 mm Proximity Transducer System Manual
140979	Non-incendive installation drawing referenced by the official datasheet
141092	Intrinsically safe installation drawing referenced by the official datasheet
108M1756	Approvals Quick Reference Guide

Official source: [Datasheet 141194 Rev. AM](#). Obtain current controlled documents through the manufacturer Media Library.

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