

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

Bently Nevada 330102-00-70-10-01-05

3300 XL 8 mm armored proximity probe

THREAD	PROBE LENGTH	CASE	ARMOR
3/8-24 UNF	1.0 m total	7.0 in	Stainless steel

For qualified personnel. This reference does not replace the complete controlled manufacturer instructions, site procedures, approved hazardous-area drawings or the supplied unit's certificate.

01

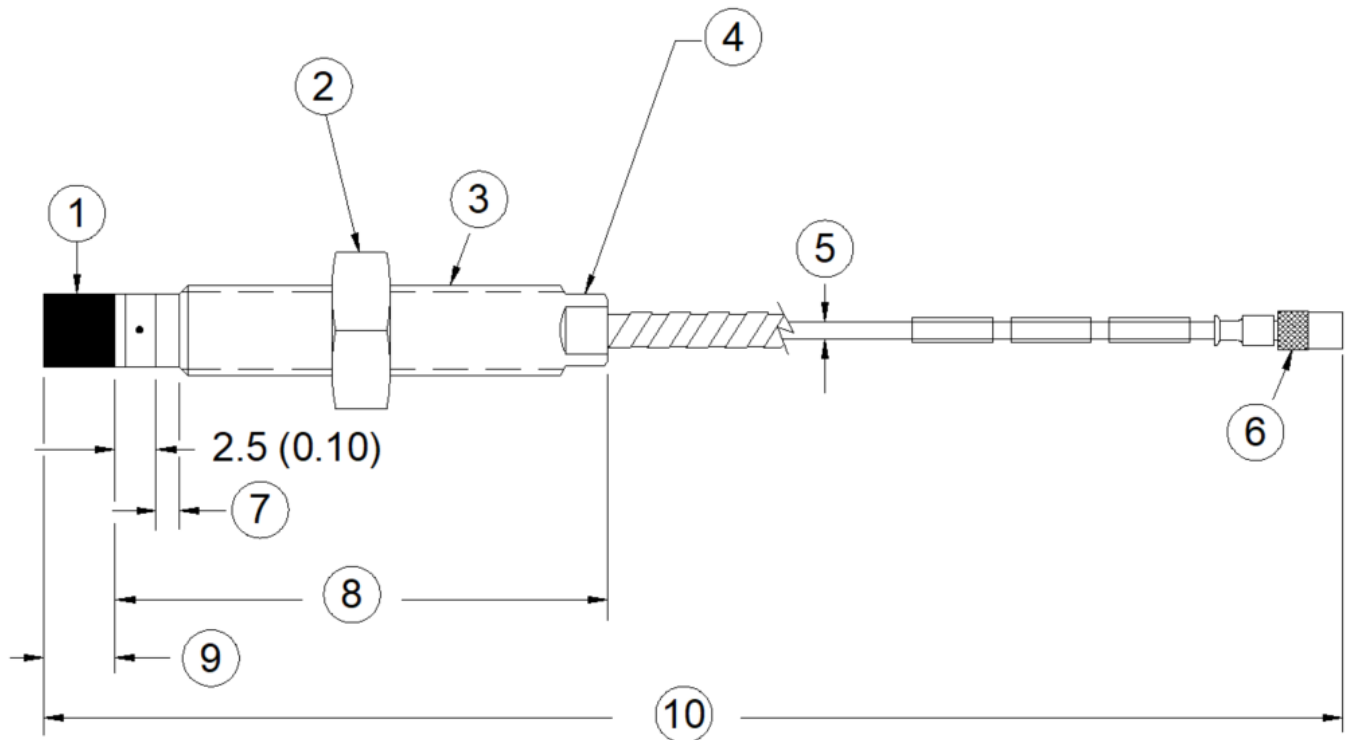
CONFIRM ORDERED CONFIGURATION

Mounting thread	3/8-24 UNF-2A, with armor
Unthreaded length, option 00	0.0 in
Overall case length, option 70	7.0 in
Total probe length, option 10	1.0 m; not exposed cable length
Connector / cable, option 01	Miniature ClickLoc with protector; standard cable
Approval option 05	CSA, ATEX and IECEx; actual certificate conditions apply

02

MECHANICAL INSTALLATION CONTROLS

- Maximum thread engagement for 3/8-24: 0.563 in. Overall case length is not the permitted engagement length (source p. 8).
- Use source Figure 14 on p. 35 and its figure notes on p. 41, reproduced on the next two pages without alteration.
- Standard forward-mount recommended torque: 11.2 N m; for the first three threads, 7.5 N m (source p. 7). Follow the applicable mounting condition.



1. Probe tip, 8.0 mm (0.31 in) diameter
2. 9/16 in for 3/8-24 threads, M17 for M10 threads (see Note 2)
3. Case thread
4. 5/16 in wrench flats for 3/8-24 threads; 8mm wrench flats for M10 threads.
5. 75 Ω cable, 3.68 mm (0.145 in) maximum outside diameter, 3.94 mm (0.155 in) maximum outside diameter for FluidLoc cable, 7.67 mm (0.302 in) outside diameter of armor, 9.5 mm (0.38 in) maximum diameter of armor ferrule
6. Miniature male coaxial connector, 7.24 mm (0.285 in) maximum outside diameter "D"
7. Unthreaded length "A"
8. Case length "B"
9. 6.0 mm (0.235 in) maximum
10. Total length "C", +30%, -0%³

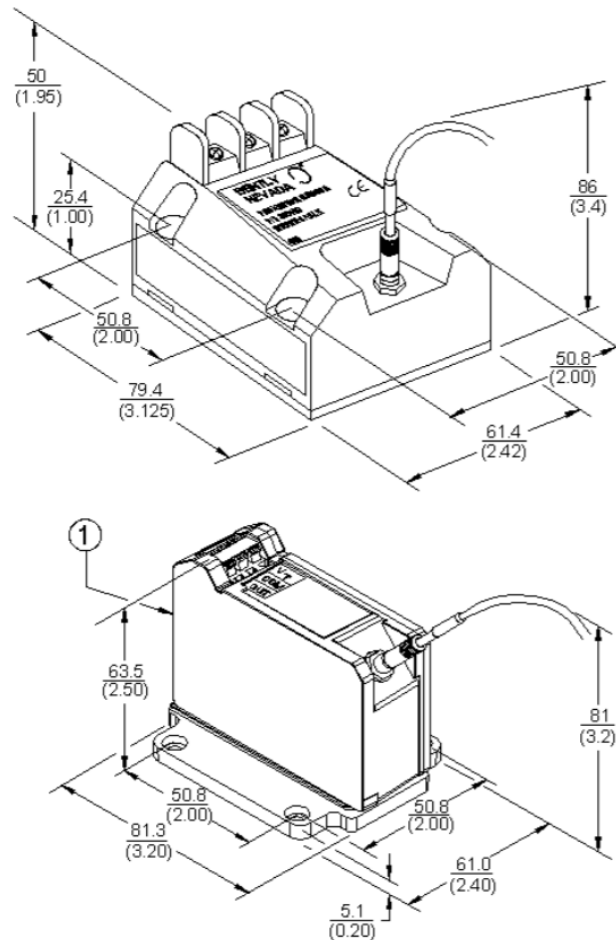
Figure 14: 3300 XL 8 mm Proximity Probes, Standard Mount

330101 and 330191, 3/8-24 UNF-2A, without armor ⁷

330102 and 330192, 3/8-24 UNF-2A, with armor ⁶

330103 and 330193, M10X1 thread, without armor ⁷

330104 and 330194, M10X1 thread, with armor ⁶



1. Mounting option "A", Options -50 or -90

Figure 21: Physical Mounting Characteristics Showing Interchangeability of 3300 and 3300 XL Proximitors when 4-hole Mounting Option Is Used⁸

Figure Notes:

1. All dimensions on figures are in millimeters (inches) unless otherwise noted.
2. Standard mount 8 mm probes supplied with M17 or 9/16 inch lock nut.
3. Probes ordered with 5 or 9 meter integral cables have a length tolerance of +20%, -0%.
4. Reverse mount probes not available with armor or connector protector options.
5. Letters inside quotation marks on figures refer to probe ordering options.
6. Stainless steel armor is supplied with FEP outer jacket for standard probes, PFA outer jacket for ETR probes.
7. FEP jacket is standard non-armored portion of the cable for standard probes, PFA jacket on non-armored portion for ETR probes.
8. Use M3.5 or #6 screws for panel-mount Proximitors (screws provided when purchasing Bently Nevada housings).

03 CONNECTION & SYSTEM CHECKS

Electrical system selection	A 1 m system uses the 1 m probe and matching Proximitor without extension cable; other lengths need the documented cable/sensor chain.
Two gold XL ClickLoc connectors	Finger tight. A mixed non-XL stainless / XL connection has separate instructions; identify both connectors first.
Target calibration	Standard system conditions use AISI 4140 steel; other target materials require manufacturer calibration review.
Radial gap, complete system	-9 Vdc, approximately 1.27 mm, under the datasheet's stated conditions; not a standalone probe output.

04 ENVIRONMENT & APPROVAL REVIEW

- Standard probe operating/storage rating is -52 to +177 C. Temperatures below -34 C may cause premature pressure-seal failure.
- Probes are not pressure-tested before shipment. Where a pressure seal is required, consult Bently Nevada and provide safe leakage containment.
- Confirm actual 05 approval markings, complete circuit requirements and applicable installation drawings before hazardous-area use.
- For shaft vibration, check shaft diameter and probe spacing. For speed or overspeed duty, consult the manufacturer's dedicated application guidance.

05 OFFICIAL DOCUMENTATION

Bently Nevada 141194 Rev. AM - complete manufacturer source

Basis: 141194 pp. 1-6 (system/target), 7-9 (mounting/environment), 10-13 (approvals/ordering), 35 and 41 (drawing/notes). Verify the actual controlled installation requirements.

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