

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

Bently Nevada 330171-00-08-20-02-00

3300 5 mm standard-mount proximity probe, 1/4-28 UNF-2A, without armor

THREAD	LENGTH	CASE	ARMOR
1/4-28 UNF	2.0 m	0.8 in	Unarmored

For qualified personnel. This reference does not replace controlled manufacturer instructions, site safety procedures, approved circuit drawings or the actual unit certificate.

01

CONFIRM ORDERED CONFIGURATION

Mounting thread	1/4-28 UNF-2A
Unthreaded length	0.0 in
Overall case length	0.8 in
Total probe length	2.0 m
Cable armor	Unarmored
Connector package	Miniature coaxial ClickLoc; no connector protector included

02

MECHANICAL INSTALLATION CONTROLS

- For 1/4-28 UNF-2A, the maximum specified thread engagement is 0.375 in. Overall case length is not permitted engagement depth.
- Probe case torque: 5.1 N m recommended; 7.3 N m maximum for the probe case (172036 p. 5).
- Maintain at least 25.4 mm cable bend radius. Read the applicable original probe drawing and notes on the following two pages.

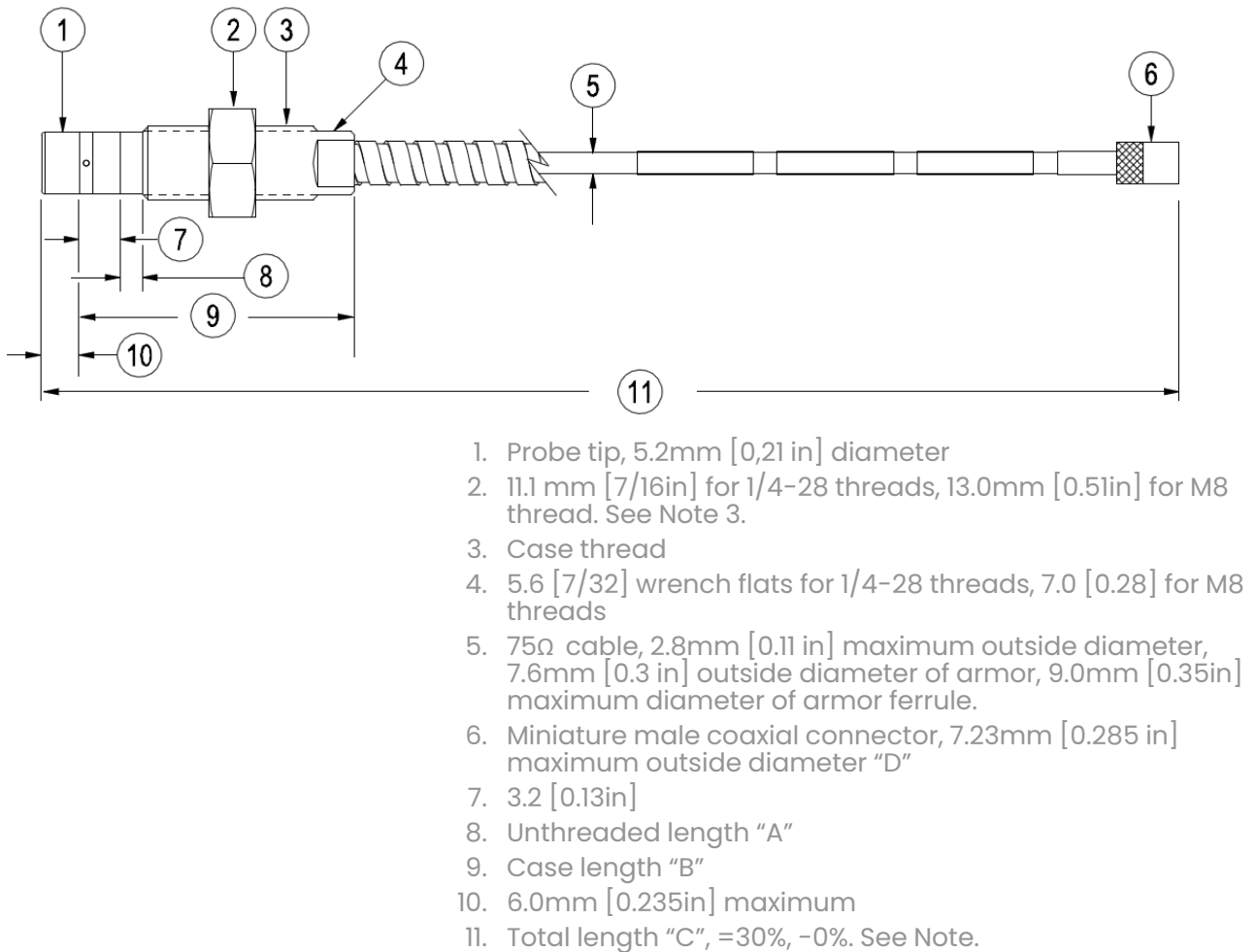


Figure 3: 3300 5mm Proximity Probes, Standard Mount3

330171, 1/4-28 UNF-2A, without armor⁷

330172, 1/4-28 UNF-2A, with armor⁶

330173, M8X1 thread, without armor⁷

330174, M8X1 thread, with armor⁶

330130, 3300 XL Extension Cable (FEP armor and insulation)



1. All dimensions are in millimetres (inches) unless otherwise noted.
2. Standard mount 5mm probes supplied with 13 mm or 7/16-in lock nut.
3. Letters inside quotation marks refer to probe ordering options.
4. Stainless steel armor is supplied with FEP outer jacket for standard probes, PFA outer jacket for ETR probes.
5. FEP jacket is standard non-armored portion of the cable for standard probes, PFA jacket on non-armored portion for ETR probes.
6. Probes ordered with 5 or 9 meter integral cables have a length tolerance of +20%, -0%.
7. Five meter probes are designed for use with the five meter Proximity Sensor only.

03 CONNECTION & SYSTEM CHECKS

Electrical chain	Use the documented XL extension cable and XL Proximito for a five- or nine-metre complete chain. The 2.0 m probe length is separate from case length; do not assume the XL 8 mm one-metre system applies.
Connector assembly	Two XL gold ClickLoc connectors: finger tight. A connection involving non-XL stainless-steel hardware has different instructions; identify both connector types first.
Target and calibration	The applicable system specifications use an AISI 4140 steel target. Other target materials need manufacturer calibration review; do not apply channel voltage or power directly to the probe.

04 ENVIRONMENT & APPROVAL REVIEW

- Probe temperature: -35 to +177 deg C; pressure-seal caveat below -34 deg C. Extended-temperature or other family ratings must not be substituted.
- Probes are not pressure tested before shipment. Verify safe process containment and leakage provisions; consult the manufacturer if a pressure-seal test is required.
- This order uses the 00 approval selection. Do not infer hazardous-area suitability from another order or the family certificate pages.
- Verify target clearance and the complete measurement channel after installation. This sensing probe is not a standalone transmitter or an independently qualified overspeed protection system.

05 OFFICIAL DOCUMENTATION

[Bently Nevada 172036 Rev. T - complete manufacturer source](#)

Basis: 172036 pp1-6,10; 108M1756 p27. Original drawing and figure notes remain unchanged between the two Amikon-authored pages. Full source cross-references and actual certificate conditions remain applicable.