

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

Bently Nevada 330904-00-10-50-02-05

3300 XL NSv standard-mount proximity probe, M8 x 1, with armor

THREAD	LENGTH	CASE	ARMOR
M8 x 1	5.0 m	100 mm	Armored

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	M8 x 1
Unthreaded length	0 mm
Overall case length	100 mm
Total probe length	5.0 m
Cable armor	Armored
Connector package	Miniature coaxial ClickLoc; no connector protector included

02

MECHANICAL INSTALLATION CONTROLS

- For M8 x 1, the maximum specified thread engagement is 12 mm. Overall case length is not permitted engagement depth.
- Probe case torque: 5.1 N m recommended; 7.3 N m maximum for the 1/4-28 or M8 x 1 probe case (147385 p. 5).
- Maintain at least 25.4 mm cable bend radius. Read the applicable original probe drawing and notes on the following two pages.

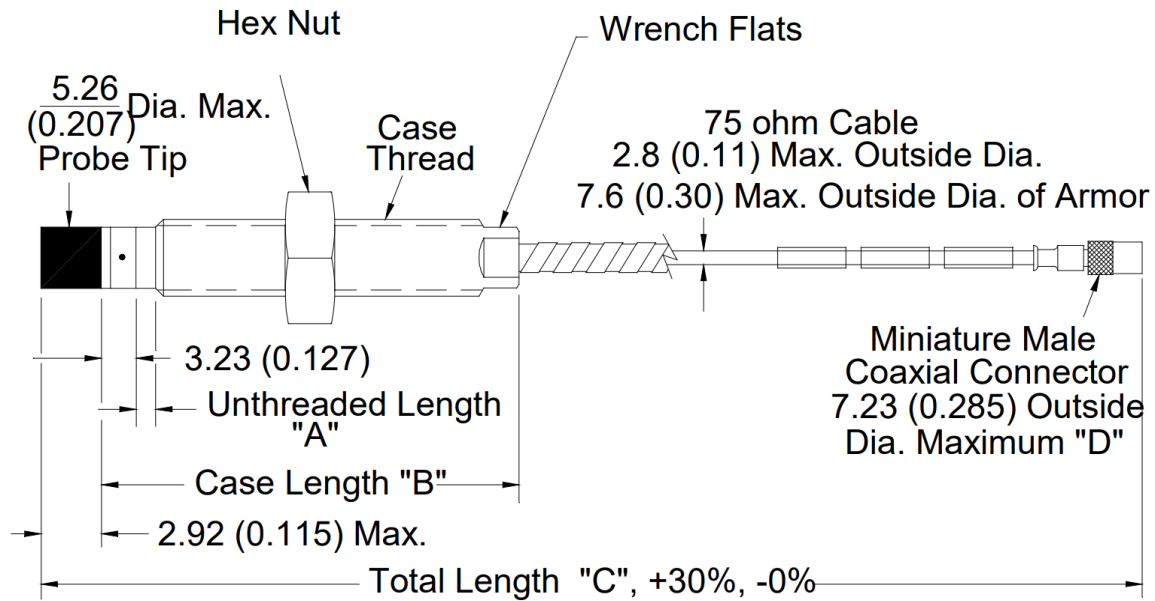
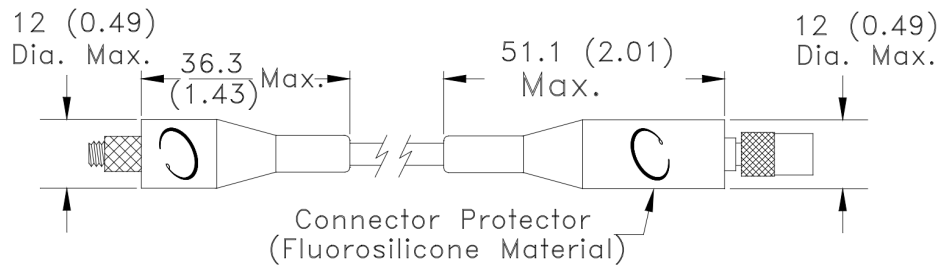


Figure 18: 3300 NSv Proximity probes, Standard Mount

- 330901, 1/4-28 UNF-2A, without armor
- 330902, 1/4-28 UNF-2A, with armor
- 330903, M8X1 thread, without armor
- 330904, M8X1 thread, with armor
- 330905, M10X1 thread, without armor
- 330908, 3/8-24 UNF-2A, without armor
- 330909, 3/8-24 UNF-2A, with armor
- 330910, M10X1 thread, with armor



Note: Connector Protector only installed on female end when optioned. Both ends available as accessories.

Figure 19: Installed Connector Protectors

Notes:

1. All dimensions on figures are in millimeters (inches) unless otherwise noted.
2. Standard mount 1/4 -28 UNF thread probes are supplied with 7/16 inch lock nut and 7/32 wrench flats.
3. Standard mount M8x1 thread probes are supplied with 13 mm lock nut and 7 mm wrench flats.
4. Standard mount 3/8-24 UNF thread probes are supplied with 9/16 inch lock nut and 5/16 wrench flats.
5. Standard mount M10X1 thread probes are supplied with 17 mm lock nut and 8 mm wrench flats.
6. Reverse mount probes are not available with armor or connector protector options.
7. Letters inside quotation marks on figures refer to probe ordering options.
8. Stainless steel armor is supplied with or without FEP outer jacket.
9. FEP jacket is standard on all non-armored probes.

03 CONNECTION & SYSTEM CHECKS

Electrical chain	Match this 5.0 m NSv probe to the selected five- or seven-metre NSv Proximitor electrical length. The probe plus any extension cable must equal that selected length.
Connector assembly	Finger tight for the NSv ClickLoc connectors; do not exceed the 0.56 N m stated maximum.
Target and calibration	The stated NSv system conditions use an AISI 4140 steel target and a 1.0 mm recommended gap; target size, sideview and probe spacing affect performance.

04 ENVIRONMENT & APPROVAL REVIEW

- Probe temperature: -52 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.
- Confirm the actual 05 approval markings, certificate and complete circuit requirements before hazardous-area use.
- 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 147385 Rev. R - complete manufacturer source

Basis: 147385 pp1-7,11-13; 108M1756 p28. Original drawing and figure notes remain unchanged between the two Amikon-authored pages. Full source cross-references and actual certificate conditions remain applicable.