

3300 XL NSv / Technical Reference

330910-10-22-10-01-CN

METRIC M10 PROXIMITY PROBE

The exact 330910 execution combines a 220 mm armored metric case, 100 mm unthreaded section, 1.0 m standard lead and protected ClickLoc connector. This is a probe, not a complete transducer system.

METRIC CASE

M10 x 1 thread, with armor

UNTHREADED LENGTH / 10

100 mm

OVERALL CASE / 22

220 mm

INTEGRAL LEAD / 10

1.0 m (39 in)

CONNECTOR AND CABLE / 01

Protected ClickLoc, standard lead

CABLE CONSTRUCTION

75 ohm coaxial, FEP insulated

ENGINEERING BOUNDARY

Use only within the matching 3300 XL NSv probe, extension-cable and Proximator chain. The probe alone does not establish system output.

Probe Material and Mechanical Data

Probe tip	Polyphenylene sulfide (PPS)
Probe case	AISI 304 stainless steel
Probe lead	75 ohm coaxial, FEP insulated
M10 thread engagement	15 mm maximum
Probe temperature	-52 to +177 deg C operating/storage
Pressure seal caution	Sustained below -34 deg C may shorten seal life
M10 case torque	11.3 N m recommended; 33.9 N m max
Minimum cable bend radius	25.4 mm, with or without armor

INSTALLATION LIMIT

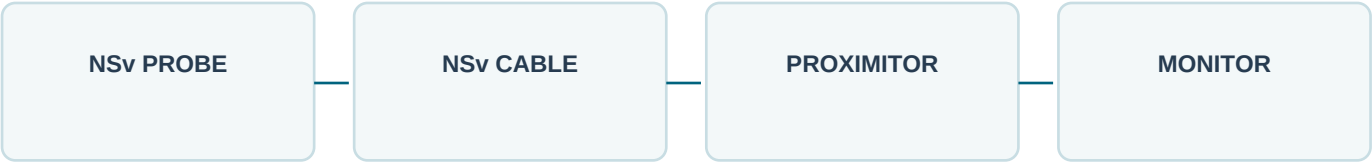
The M10 x 1 case has 15 mm maximum thread engagement. Use the approved mounting method, 11.3 N m recommended torque and 25.4 mm cable bend radius.

Matched-System Data

Matched system length	5 or 7 m, probe plus extension cable
Matched-system scale factor	7.87 V/mm (200 mV/mil) average
Matched-system range	1.5 mm (60 mil) linear range
Matched-system gap	1.0 mm recommended target gap
Matched-system response	0-10 kHz, +0/-3 dB typical

MEASUREMENT CHAIN

330910 probe plus selected 330930 extension cable equals the 5 m or 7 m length configured at the 330980 NSv Proximator Sensor. Confirm every component before using matched-system figures.



Applications and Configuration Decisions

Small-target radial position

The matched 1.5 mm NSv linear range supports shaft-position monitoring.

Axial shaft position

Use the matched transducer chain for axial shaft-position measurement on compact machinery.

Radial shaft vibration

Monitor radial shaft vibration on a documented compact compressor.

Phase / speed

Support tachometer, zero-speed or Keyphasor measurements.

MODEL-SPECIFIC QUESTIONS

What do codes 10 and 22 identify?

A 100 mm unthreaded section and a 220 mm overall metric case.

How long is the integral lead?

Code 10 is the 1.0 m probe lead.

Which connector execution is supplied?

Code 01 is a protected ClickLoc connector on a standard lead.

Is the probe armored?

Yes. The 330910 M10 x 1 probe base is the armored execution.

Source and Related Portfolio

RELATED BENTLY NEVADA PRODUCT PAGES

01	Bently Nevada 330930-060-03-05	02	Bently Nevada 330930-040-02-00
03	Bently Nevada 330910-00-12-10-02-05	04	Bently Nevada 3500/05-01-02-00-00
05	Bently Nevada 330910-00-07-05-02-CN	06	Bently Nevada 330854-080-24-00
07	Bently Nevada 330707-00-20-10-02-00	08	Bently Nevada 135031-01
09	Bently Nevada 330930-065-01-05	10	Bently Nevada 9200-01-02-10-00
11	Bently Nevada 9200-01-01-10-00	12	Bently Nevada 3500/04 138257-01
13	Bently Nevada 991-01-XX-01-05 MOD:284318-01	14	Bently Nevada 330980-51-00

Navigation links only; technical values come from the manufacturer record.

MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R, pp. 1-6, 11-14.

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