

3300 XL 8 mm / Technical Reference

330103-00-09-05-02-00

METRIC M10 PROXIMITY PROBE

The exact 330103 execution combines an unarmored M10 x 1 case, standard lead and ClickLoc connector without a protector. This is a probe, not a complete transducer system.

METRIC CASE

M10 x 1 thread; no cable armor

UNTHREADED OPTION / 00

0 mm

CASE OPTION / 09

90 mm overall case

PROBE LEAD / 05

0.5 m integral lead

CONNECTOR / 02

ClickLoc, standard lead, no protector

APPROVAL OPTION / 00

No added agency approval option

ENGINEERING BOUNDARY

Use only within a matched 3300 XL 8 mm probe-extension-Proximitor chain. The probe lead alone does not establish the electrical output or the system length.

Probe Material and Mechanical Data

Probe tip	Polyphenylene sulfide (PPS)
Probe case	AISI 303 or 304 stainless steel
Probe lead	75 ohm triaxial, FEP insulated
Connector material	Gold-plated brass or beryllium copper
Probe temperature	-52 to +177 deg C operating/storage
Connector torque limit	0.565 N m maximum
M10 case torque	11.2 N m recommended; 33.9 N m maximum
M10 thread engagement	15 mm maximum

INSTALLATION LIMIT

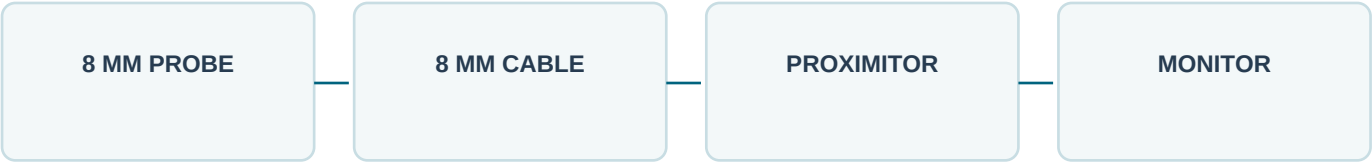
The M10 x 1 case has 15 mm maximum thread engagement. Use the approved mounting method and protect the standard lead from strain.

Matched-System Data

Matched system length	5 or 9 m with selected extension cable
Matched system ISF	7.87 V/mm (200 mV/mil)
Matched linear range	2 mm (80 mil)
Radial vibration gap	Approx. 1.27 mm / -9 Vdc reference
Matched frequency response	0-10 kHz, +0/-3 dB

MEASUREMENT CHAIN

330103 probe plus selected 330130 extension cable equals the 5 or 9 m length configured at the 330180 Proximito Sensor. Confirm all components before using system figures.



Applications and Configuration Decisions

Static shaft position

Monitor steady position relative to the approved conductive shaft target.

Keyphasor reference

Supply a phase-reference pulse from the documented shaft target.

Radial shaft vibration

Measure non-contact shaft vibration in a documented bearing position.

Speed / zero-speed

Support configured tachometer or zero-speed measurements.

MODEL-SPECIFIC QUESTIONS

What case and armor does this execution use?

An M10 x 1 metric case without cable armor.

What do 00 and 09 specify?

Zero unthreaded length and a 90 mm overall case.

How long is the integral lead?

Option 05 is a 0.5 m probe lead.

Which cable and connector are supplied?

Option 02 is standard cable and a ClickLoc coaxial connector without a protector.

Source and Related Portfolio

RELATED BENTLY NEVADA PRODUCT PAGES	
01 Bently Nevada 330103-00-04-10-02-CN	02 Bently Nevada 330103-00-11-50-02-00
03 Bently Nevada 330103-00-10-10-02-00	04 Bently Nevada 330103-00-06-10-01-00
05 Bently Nevada 330103-00-18-10-02-00	06 Bently Nevada 330103-00-05-10-01-00
07 Bently Nevada 330104-00-07-50-02-00	08 Bently Nevada 330104-00-14-05-02-00
09 Bently Nevada 330104-00-25-50-02-CN	10 Bently Nevada 330104-10-20-10-02-00
11 Bently Nevada 330104-00-24-10-02-00	12 Bently Nevada 330104-00-14-10-01-05
13 Bently Nevada 330104-00-11-50-02-00	14 Bently Nevada 330104-00-10-10-02-00

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

MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN.

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