

3300 XL 8 mm / Technical Reference

330103-00-08-10-01-00

METRIC M10 PROXIMITY PROBE

The exact 330103 execution combines an 80 mm unarmored metric case, 1.0 m standard lead and a protected ClickLoc connector. This is a probe, not a complete transducer system.

METRIC CASE

M10 x 1 thread, without armor

UNTHREADED LENGTH / 00

0 mm

OVERALL CASE / 08

80 mm, metric 10 mm increments

INTEGRAL LEAD / 10

1.0 m (3.3 ft)

CONNECTOR / 01

Protected ClickLoc, standard lead

APPROVAL / 00

No additional agency-approval option

ENGINEERING BOUNDARY

Use only within a matched 3300 XL 8 mm probe-extension-Proximator chain. The matched probe, cable if required, and Proximator determine the electrical output.

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
Probe DC resistance	7.59 +/- 0.50 ohm for the 1.0 m lead
Probe temperature	-52 to +177 deg C operating/storage
Seal caution	Below -34 deg C can shorten pressure-seal life
M10 case torque	11.2 N m recommended, forward mount
M10 engagement	15 mm maximum thread engagement

INSTALLATION LIMIT

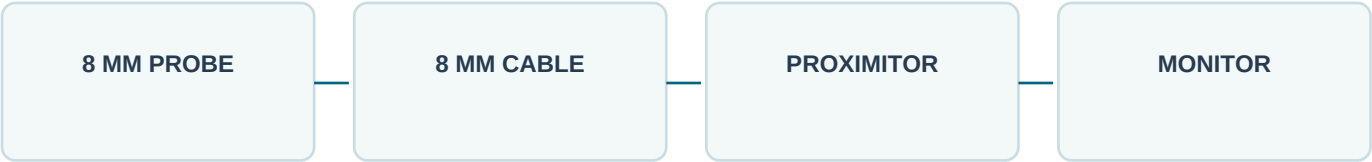
The M10 x 1 case has 15 mm maximum thread engagement. Use the approved mounting method and do not exceed the specified case torque or bend the lead sharply.

Matched-System Data

Matched system length	1 m probe-only, or 5 m / 9 m with extension
Matched-system output	7.87 V/mm (200 mV/mil) nominal
Matched-system range	2 mm (80 mil) standard linear range
Matched-system gap	1.27 mm / about -9 Vdc for radial vibration
Matched-system response	0-10 kHz, +0/-3 dB typical

MEASUREMENT CHAIN

330103 probe alone forms a 1 m loop; a matched 330130 cable forms the 5 m or 9 m loop at the 330180 Proximator. Confirm every component before using the system figures above.



Applications and Configuration Decisions

Axial position

The matched 8 mm system's 2 mm linear range supports thrust-position monitoring.

Differential expansion

Use the matched transducer chain for turbine ramp expansion measurements.

Rod position

Monitor rod position or rod drop on reciprocating compressors.

Phase / speed

Support tachometer, zero-speed or Keyphasor measurements.

MODEL-SPECIFIC QUESTIONS

What does case code 08 mean?

An 80 mm overall metric case, not an 8 mm case length.

How long is the integral lead?

Code 10 is a 1.0 m probe lead.

Which cable execution is supplied?

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

Is the probe armored?

No. Base 330103 is an unarmored M10 x 1 case.

Source and Related Portfolio

RELATED BENTLY NEVADA PRODUCT PAGES	
01 Bently Nevada 146054-058-20-02-05 MOD:173931-011-058	02 Bently Nevada 146054-011-20-02-05
03 Bently Nevada 330901-00-32-10-02-05	04 Bently Nevada 31000-28-10-15-040-03-02
05 Bently Nevada 330710-00-060-10-02-00	06 Bently Nevada 190501-09-99-01
07 Bently Nevada 129716-125-040-15-05	08 Bently Nevada 9571-20
09 Bently Nevada 330130-080-02-00	10 Bently Nevada 330704-000-078-10-01-05
11 Bently Nevada 330910-00-10-10-01-05	12 Bently Nevada 330130-080-03-05
13 Bently Nevada 330104-01-08-50-01-05	14 Bently Nevada 330105-02-12-15-02-05

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

MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 3300 XL 8 mm Datasheet 141194 Rev AN, pp. 4-9, 13-14.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

