

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Bently Nevada 330851-04-00-27-10-01-00

3300 XL 25 mm armored proximity probe, smooth 1.06 in side-exit case

CASE	CASE LENGTH	PROBE LENGTH	APPROVAL
Side exit	2.7 in	1.0 m	None

Bently Nevada 330851-04-00-27-10-01-00 is a 3300 XL 25 mm proximity probe with a smooth side-exit case and stainless-steel armor. The verified ordering format specifies a 2.7-inch case and a 1.0 m total probe length for use within a matched differential-expansion measurement system.

01

VERIFIED TECHNICAL DATA

Case configuration	Smooth 1.06 in diameter, side exit, option 04
Overall case length	2.7 in (68.58 mm), ordering field 027
Total probe length	1.0 m, option 10
Protective armor	Flexible AISI 302 stainless steel with PFA jacket, option 01
Agency approval option	No approvals, option 00
Probe tip material	Polyetheretherketone (PEEK)
Probe case material	AISI 304 stainless steel
Probe cable construction	75 ohm triaxial PFA-insulated FluidLoc cable

Official basis: 163236 Rev. M, pp. 1-7 and 11-12. No unverified packed dimensions, gross weight or individual hardware revision is stated.

02 OPERATING & INSTALLATION LIMITS

Probe DC resistance	6.2 +/-0.5 ohms, center to outer conductor for 1.0 m probe
Probe operating and storage temperature	-35 to +200 C
Short-term temperature exposure	+250 C maximum for less than 24 hours
Minimum cable bend radius	25.4 mm with or without armor
Connector-to-connector torque	Finger tight recommended; 0.565 N m maximum
Matched-system linear range	12.7 mm under specified 3300 XL 25 mm system conditions
Matched-system average scale factor	0.787 V/mm (20 mV/mil) nominal

03 APPLICATION & INTEGRATION

- Differential expansion monitoring at turbine rotor collars
- Extended differential-expansion measurement across opposite collar faces
- Rotor-ramp differential expansion with radial-motion compensation

Range and scale factor describe a complete matched 3300 XL 25 mm system, not a standalone probe. Upgrading the documented older DE systems requires replacing the probe, extension cable and Proximitor together.

04 OFFICIAL DOCUMENTATION

Bently Nevada 163236 Rev. M - official datasheet

Official-format lookup: 330851-04-000-027-10-01-00. The 027 field means 2.7 inches, not 27 mm. The recorded short form is retained; verify the original nameplate before procurement.

AMIKON PRODUCT SUPPORT

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