

Identity and Documented Role

Bently Nevada 330851-05-000-040-50-01-05

3300 XL 25 mm proximity probe with a 1 1/2-12 english threaded case. It forms the sensing end of a matched differential-expansion transducer chain; the complete system also requires a compatible extension cable and Proximitor Sensor.

Exact-Model Identity

ITEM	DOCUMENTED FACT
Product family	330851 is the 3300 XL 25 mm proximity-probe family.
Case style	1 1/2-12 English threaded as decoded from the AA order-code field.
Cable protection	stainless-steel armor as decoded from the EE field.
Approval selection	Final 05 identifies multiple agency approvals.
Probe assembly	PEEK tip, AISI 304 stainless-steel case and PFA-insulated FluidLoc probe cable.

Measurement boundary

The manufacturer's scale-factor, frequency-response and range specifications apply to the fully matched 25 mm probe, cable and Proximitor Sensor under stated test conditions, not to a loose probe alone.

Related Products on Apter Power

Bently Nevada 330851-02-000-070-10-00-05	Open product page
Bently Nevada 330851-02-000-060-10-00-00	Open product page
Bently Nevada 330851-02-000-060-10-01-05	Open product page
Bently Nevada 330851-01-000-020-10-00-00	Open product page
Bently Nevada 330851-06-000-070-50-00-05	Open product page
Bently Nevada 330850-50-05	Open product page
Bently Nevada 330850-91-00	Open product page

Construction and Conditions

Probe Construction

FEATURE	OFFICIAL SPECIFICATION
Probe tip	Polyetheretherketone (PEEK).
Probe case	AISI 304 stainless steel.
Probe cable	75-ohm triaxial, PFA-insulated FluidLoc construction.
Mating connection	High-temperature ClickLoc with connector protection.
Continuous probe operating temperature	-35 to +200 degrees C.
Short-term probe operating temperature	Up to +250 degrees C for less than 24 hours.
Environmental sealing	Front and rear probe seals plus FluidLoc cable resist moisture entry.

Component distinction

The temperature values above apply to the probe. Do not transfer them to the extension cable or Proximitor Sensor without checking their separately published limits.

Related Products on Apter Power

Bently Nevada 330850-51-CN	Open product page
Bently Nevada 330854-080-24-00	Open product page
Bently Nevada 330854-080-25-00	Open product page
Bently Nevada 330854-080-24-CN	Open product page
Bently Nevada 330854-080-05	Open product page
Bently Nevada 330104-08-15-10-02-00	Open product page
Bently Nevada 330104-00-07-50-02-00	Open product page
Bently Nevada 330104-00-24-10-02-00	Open product page

System Integration and Applications

Matched-System Engineering

STAGE	REQUIRED CHECK
Probe	Confirm complete 330851-05-000-040-50-01-05 marking, case style and connector condition.
Extension cable	Use the compatible 3300 XL 25 mm FluidLoc cable for the selected system.
Proximitior Sensor	Match its system configuration and target calibration to the probe and cable.
Monitor channel	Verify wiring, static output and controlled differential-expansion response.

Manufacturer-Described Uses

APPLICATION	MEASUREMENT ROLE
Steam-turbine differential expansion	Observe rotor-to-stator thermal movement without physical contact.
Redundant collar observation	Two transducers may observe the same side of a collar.
Complementary input	Probes may observe opposite collar sides in an engineered arrangement.
Ramp compensation	A second probe can compensate for radial motion in a ramp arrangement.

Upgrade caution

When converting an earlier 7200 or DE Integral installation, the manufacturer calls for replacing every transducer-system component with matched 3300 XL 25 mm components.

Related Products on Apter Power

Bently Nevada 330104-00-10-05-01-05	Open product page
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Bently Nevada 330104-01-09-50-02-05	Open product page
Bently Nevada 330104-00-10-10-02-00	Open product page
Bently Nevada 330104-00-15-10-02-00	Open product page
Bently Nevada 330103-00-10-10-02-00	Open product page
Bently Nevada 330103-00-11-50-02-00	Open product page

Verification and Source

Release Decision Matrix

DECISION	REQUIRED EVIDENCE
Exact identity	Record the complete 330851-05-000-040-50-01-05 nameplate, case style and approval selection.
Mechanical installation	Confirm mounting, target, alignment and probe protection.
Connector condition	Inspect high-temperature ClickLoc joints and protective covers.
System pairing	Confirm matching extension cable and Proximator Sensor.
Channel test	Record static output and controlled differential-expansion functional test.

Model-Specific Questions

QUESTION	ANSWER
What is 330851-05-000-040-50-01-05?	The 3300 XL 25 mm proximity probe.
What does its case option indicate?	1 1/2-12 English threaded.
Can this probe work alone?	No. Use a matching cable and Proximator Sensor.

Manufacturer source record

Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet, 163236 Rev. M. Description, specifications and ordering information on pages 1-7 and 11-12. Related site links are for navigation, not parameter evidence.

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