

Model and System Dashboard

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

3300 XL 25 mm proximity probe with 1 1/2-12 english threaded case and stainless-steel armor. It senses turbine rotor-to-casing differential expansion as part of the complete matched 25 mm transducer system.

Four Documented Highlights

ROLE	CASE	CABLE	APPROVAL
25 mm sensing probe	1 1/2-12 English threaded	FluidLoc and ClickLoc	Multiple approvals

Complete System Chain

TARGET	PROBE	EXTENSION	SENSOR / MONITOR
Rotor collar or approved ramp	330851-05-000-040-50-01-05 senses without contact	Matched 25 mm cable carries signal	Proximitor conditions; monitor evaluates DE

Performance boundary

The complete-system performance values in the source datasheet require the specified probe, extension cable, Proximitor Sensor, calibration target and measurement conditions.

Related Products on Apter Power

330104-00-15-10-02-00	330103-00-10-10-02-00
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Verified Construction

Probe and System Domains

DOMAIN	PUBLISHED FACT	USE / CHECK
Probe face	PEEK tip	Inspect for contamination and damage.
Case	AISI 304 stainless steel	Verify exact ordered case style.
Lead	PFA-insulated FluidLoc triaxial	Protect routing and sealing.
Connection	High-temperature ClickLoc	Verify positive mating and protection.
Probe temperature	-35 to +200 degrees C continuous	Apply to probe only.
Matched system	0.787 V/mm nominal scale factor	Under manufacturer test conditions.
Matched system	0 to 2.7 kHz typical response	Under manufacturer test conditions.

Related Products on Apter Power

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Bently Nevada 330851-01-000-020-10-00-00	Open product page

Applications and Integration

Manufacturer-Described Applications

APPLICATION	COMPLETE SYSTEM ROLE
Differential expansion	Track rotor-to-stator growth on steam turbine generators.
Collar observation	Observe one collar side with redundant sensing if engineered.
Complementary input	Observe opposing collar sides in a paired configuration.
Ramp observation	Compensate radial movement with an engineered second probe.

Integration Sequence

IDENTIFY	FIT	PAIR	TEST
Confirm exact 330851-05-000-040-50-01-05	Check case and target arrangement	Match cable and Proximitior Sensor	Record controlled DE response

Related Products on Apter Power

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Bently Nevada 330850-50-05	Open product page
Bently Nevada 330850-91-00	Open product page
Bently Nevada 330850-51-CN	Open product page
Bently Nevada 330854-080-24-00	Open product page

Precautions and Decisions

Decision Matrix

QUESTION	SOURCE-BOUNDED ANSWER
What is the component?	3300 XL 25 mm proximity probe.
How is it connected?	FluidLoc cable and high-temperature ClickLoc joint.
What must match?	The 25 mm extension cable and Proximitor Sensor.
What is the application?	Differential-expansion measurement on an approved machine arrangement.

Eight Release Precautions

1 - 4	5 - 8
1. Record full marking and case style.	5. Protect FluidLoc routing and ClickLoc joints.
2. Check bracket and target alignment.	6. Verify matching cable and Proximitor.
3. Inspect the PEEK probe face.	7. Check static output and monitor scaling.
4. Preserve approved channel state.	8. Record controlled functional test.

Controlled handover

Do not release the protection channel until component identity, mechanical fit, electrical pairing, target condition and functional response are documented.

Source, Related Products and Contact

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.

Related Products on Apter Power

Bently Nevada 330854-080-25-00

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