Bently Nevada 330851-01-000-030-10-00-05

Apter Power installation and commissioning guide

Bently Nevada 330851-01-000-030-10-00-05 is a 3300 XL 25 mm differential-expansion probe with a 1 1/4-12 threaded case, 3.0 in overall case, and 1.0 m lead.

01 / Work scope

The 3300 XL 25 mm probe observes a turbine rotor collar or ramp in a differential-expansion measurement system.

Selected assembly

Parameter	Selected configuration
Probe tip	25 mm
Case thread	1 1/4-12
Unthreaded length	0.0 in
Case length	3.0 in
Integral lead	1.0 m
Lead armor	none

System position

Boundary	Installed-system relationship
Turbine context	This 25 mm probe is a component in a 3300 XL differential-expansion measurement on steam-turbine machinery.
Compatibility scope	Use a documented collar or ramp arrangement with matched 25 mm transducer components and appropriate mechanical travel.

02 / Before installation

The selected 01 case is threaded 1 1/4-12. Options 000 and 030 select zero unthreaded length and a 3.0 in overall case.

Parameter	Selected configuration
Case length	3.0 in
Integral lead	1.0 m
Lead armor	none
Agency approvals	multiple approvals
Intended system role	differential expansion

Readiness checks

Check	Reason or action
Machine isolation	Secure the turbine and probe mount before moving or replacing the sensor.
Case thread	Check the 1 1/4-12 mount and locknut against the actual adapter.
Target choice	Confirm collar or ramp size and expected axial movement before final gap setting.
Connector care	Protect the high-temperature ClickLoc connection from contamination.

Record the complete product marking and the installed machine drawing before removing an existing item.

03 / Mechanical and electrical fitting

Code 10 gives a 1.0 m probe lead; 00 selects no separate armor and 05 selects multiple approvals. The probe still needs its matching extension cable and Proximitor sensor.

Sequence	Installation action
1. Machine isolation	Secure the turbine and probe mount before moving or replacing the sensor.
2. Case thread	Check the 1 1/4-12 mount and locknut against the actual adapter.
3. Target choice	Confirm collar or ramp size and expected axial movement before final gap setting.
4. Connector care	Protect the high-temperature ClickLoc connection from contamination.
5. System match	Use matched 25 mm probe, extension cable and Proximitor components.
6. Travel verification	Move the mounted probe through the intended range to confirm response during commissioning.

Configuration-specific notes

Topic	Technical limit
Installed role	This configured probe belongs to the 3300 XL 25 mm differential-expansion transducer chain.
System boundary	The system range and scale factor apply only with the matched cable and Proximitor sensor.

04 / Commissioning acceptance

The complete 25 mm system uses two transducers in documented differential-expansion arrangements. Target geometry and selected mounting method determine acceptance.

Question	Engineering answer
What turbine measurement uses 330851-01-000-030-10-00-05?	It is a 3300 XL 25 mm probe used in a differential-expansion transducer arrangement.
What thread does 330851-01-000-030-10-00-05 use?	Option 01 selects a 1 1/4-12 threaded case.
How long is the case on 330851-01-000-030-10-00-05?	The 030 option specifies a 3.0 in overall case.
Does 330851-01-000-030-10-00-05 include an unthreaded section?	Option 000 selects a 0.0 in unthreaded section.
What lead length does 330851-01-000-030-10-00-05 select?	Code 10 selects a 1.0 m integral lead.

Acceptance record

Measurement use	Supported context
Same-side collar	Two probes may view the same side of a collar for redundant differential-expansion readings.
Opposite-side collar	A complementary pair can observe opposing collar faces when the monitoring arrangement supports it.

Accept the installation only after the installed system and target configuration have been checked against the machine procedure.

05 / Service handover

Question	Engineering answer
Does 330851-01-000-030-10-00-05 use separate lead armor?	Code 00 selects no separate stainless steel armor.
Which approval option is on 330851-01-000-030-10-00-05?	The final 05 is the multiple-approvals selection in the 163236 order matrix.
Can 330851-01-000-030-10-00-05 be used by itself as a complete transducer?	No. A matched extension cable and 3300 XL 25 mm Proximitor sensor are also required.

Service reference

Confirm the turbine target, probe adapter and matching 25 mm system components before replacement.

Related product references

Related product	Selection note
Bently Nevada 330880-01-20-058-03-02	Separate catalogue reference
Bently Nevada 330880-00-00-000-03-02	Separate catalogue reference
Bently Nevada 21504-000-040-10-02	Separate catalogue reference
Bently Nevada 330851-02-000-060-10-00-00	Separate catalogue reference
Bently Nevada 330851-02-000-030-10-00-00	Separate catalogue reference
Bently Nevada 330101-00-10-10-02-00	Separate catalogue reference
Bently Nevada 330101-00-20-10-02-00	Separate catalogue reference

Technical reference: Bently Nevada 3300 XL 25 mm Proximity Transducer System, 163236 Rev. M.