

330876-01-90-00-05

3300 XL 50 mm Extended-Range Proximity Probe

CONTROLLED ENGINEERING COPY

Bently Nevada 330876-01-90-00-05 is a 3300 XL 50 mm extended-range proximity probe with a 1/2-20 threaded straight-exit case and 9.0 m High Temperature FluidLoc cable. It is used with the matched 3300 XL 50 mm transducer system for large steam-turbine differential-expansion and rotor-expansion measurement.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	330876-01-90-00-05
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 50 mm Proximity Transducer System
HS code	8537101190
Shipping origin	Xiamen,Fujian,China



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01 PRE-INSTALLATION PLAN

- 1

Confirm the complete 330876-01-90-00-05 marking and the 3300 XL 50 mm probe configuration before work.
- 2

Place the turbine and protection channel in the approved maintenance state.
- 3

Match the 9.0 m probe length with the 330878-90-00 or 330878-91-00 sensor arrangement.
- 4

Inspect the 1/2-20 mounting thread, locknut, cable route and FluidLoc jacket before fitting.
- 5

Keep the connector finger-tight to the recommended limit and protect the coaxial interface.

MATCHED HARDWARE

- 3300 XL 50 mm probe, 1/2-20 straight exit, complete order identity
- 9.0 m High Temperature FluidLoc cable path
- Matched 330878-90-00 or 330878-91-00 Proximitior Sensor
- 102 mm minimum AISI 4140 flat target

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	330876-01-90-00-05 recorded
Physical interface	Probe, cable and sensor matched
Functional proof	Static gap and dynamic response

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Complete order number	330876-01-90-00-05
Product family	3300 XL 50 mm Proximity Transducer System
Probe case option	01: 1/2-20 English thread, straight exit
Total probe length	90: 9.0 m (29.5 ft)
Cable / armor option	00: High Temperature FluidLoc cable, no armor
Agency approval option	05: Multiple Approvals
Proximator Sensor input	One 3300 XL 50 mm probe and extension cable
Power	-17.5 to -26 Vdc without barriers; 12 mA maximum
Output resistance	50 ohm
Extension cable capacitance	69.9 pF/m (21.3 pF/ft), typical
Field wiring	0.2 to 1.5 mm2 (16 to 24 AWG); 3-conductor shielded triad recommended
Linear range	27.9 mm (1100 mils), from 1.3 to 29.2 mm
Average Scale Factor	394 mV/mm (10 mV/mil) nominal

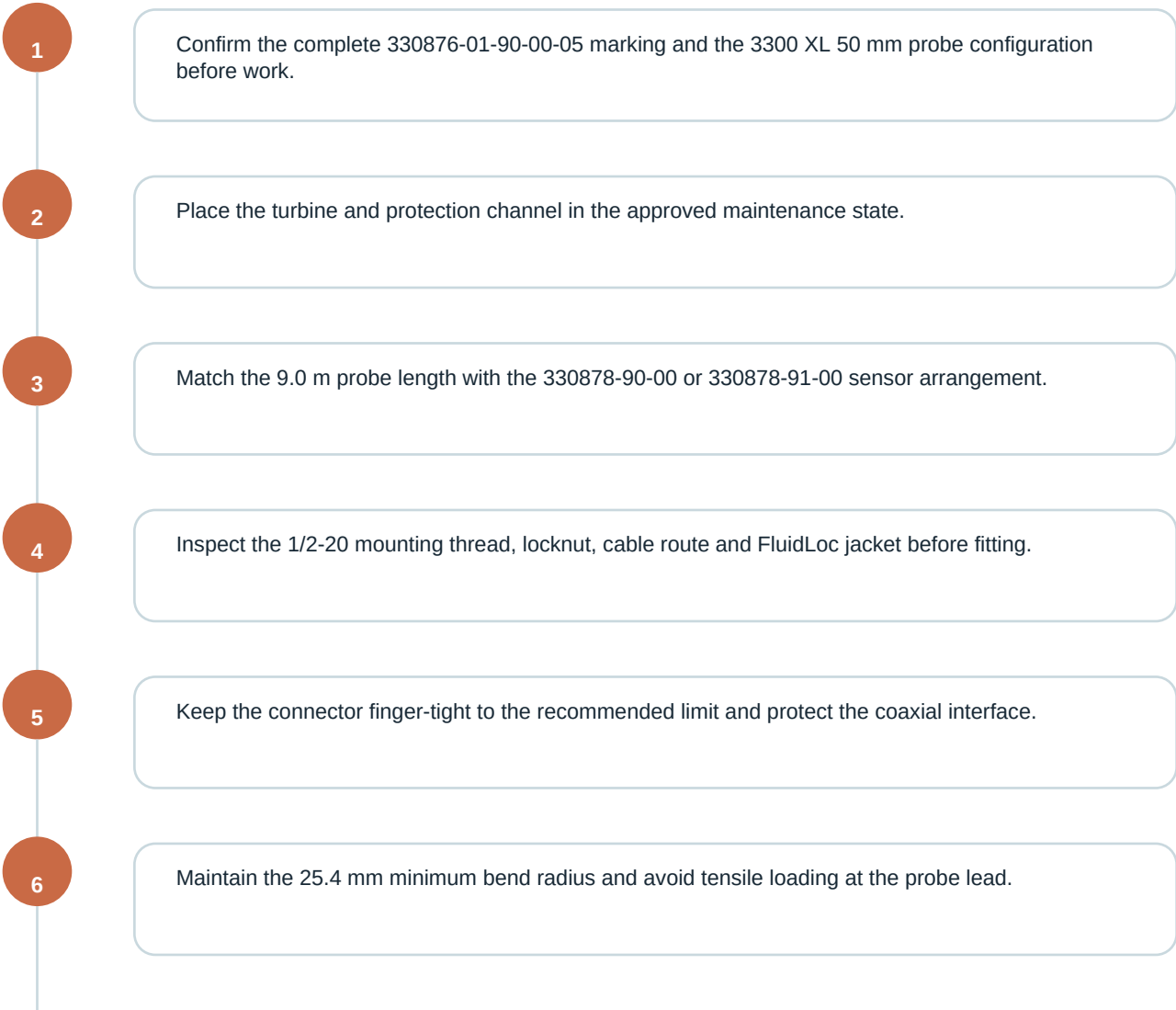
FIELD NOTE

Keep probe and extension interfaces clean, dry and fully seated. Preserve shield, grounding and polarity conventions and record the installed total system length before energizing the channel.

RELATED APTER POWER PAGES

330980-70-05	330930-060-03-05	330180-X1-00-MOD-145004-09	330330-080-01-00
330330-070-00-00	330854-080-05	330851-02-000-080-10-00-00	330851-01-000-020-10-00-00

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	330876-01-90-00-05
Physical interface	Probe, cable and Proximitior Sensor
Configuration	Gap, polarity and monitor channel
Functional proof	Controlled response and alarm action

04 RETURN-TO-SERVICE RECORD

- ☐ Keep the connector finger-tight to the recommended limit and protect the coaxial interface.
- ☐ Maintain the 25.4 mm minimum bend radius and avoid tensile loading at the probe lead.
- ☐ Use the documented 102 mm AISI 4140 target and set the gap within the 1.3-29.2 mm range.
- ☐ Record polarity, scale, diagnostics and controlled differential-expansion response before release.

VERIFICATION RECORD

PRODUCT IDENTITY	330876-01-90-00-05
INSTALLED POSITION	Documented large steam-turbine DE/RX transducer position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm the exact model remains assigned to the documented host position.
- ☐ Verify the connection to the matched probe cable and Proximator Sensor.
- ☐ Exercise the intended static-position and dynamic-vibration response.
- ☐ Retain the diagnostic and functional-test result before release.

SOURCE IDENTIFIERS

3300 XL 50 mm Proximity Transducer System Datasheet | 174014 Rev. L