

APTER POWER FIELD WORKBOOK

INSTALLATION | APPLICATION | VERIFICATION

31000-28-10-15-040-03-02

31000 Proximity Probe Housing Assembly with 3300 XL 8 mm probe

CONTROLLED ENGINEERING COPY

The exact code specifies A28, B10, C15, D040, E03 and F02 options. The PPS/304/303 construction is Type 4X CSA and IP66; the housing is mechanical and environmental protection only, not pressure-rated or explosion-proof.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	31000-28-10-15-040-03-02
Manufacturer part	31000-28-10-15-040-03-02
Hardware type	3300 XL 8 mm probe with multiple approvals
System family	Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies
HS code	8537101190



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 31000-28-10-15-040-03-02 marking and nameplate before work.
- 2

Isolate the machine and monitoring circuits before disconnecting the housing or probe.
- 3

Confirm the housing is mounted to the bearing case as documented for relative radial measurements.
- 4

Match the 3300 XL 8 mm multiple-approvals probe and 1.0 m cable to the installed loop.
- 5

Verify C15 standoff, D040 penetration and the required probe gap before tightening.

MATCHED HARDWARE

- 3300 XL 8 mm probe with multiple approvals
- 1.0 m probe cable
- E03 fitting and cable-seal kit
- Compatible Bently Nevada monitor and approved barriers where required

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	31000-28-10-15-040-03-02 / 31000-28-10-15-040-03-02 recorded
Physical interface	3300 XL 8 mm probe with multiple approvals
Companion check	1.0 m probe cable
Functional proof	3300 XL 8 mm probe with multiple approvals
Application test	Through-case radial vibration measurement

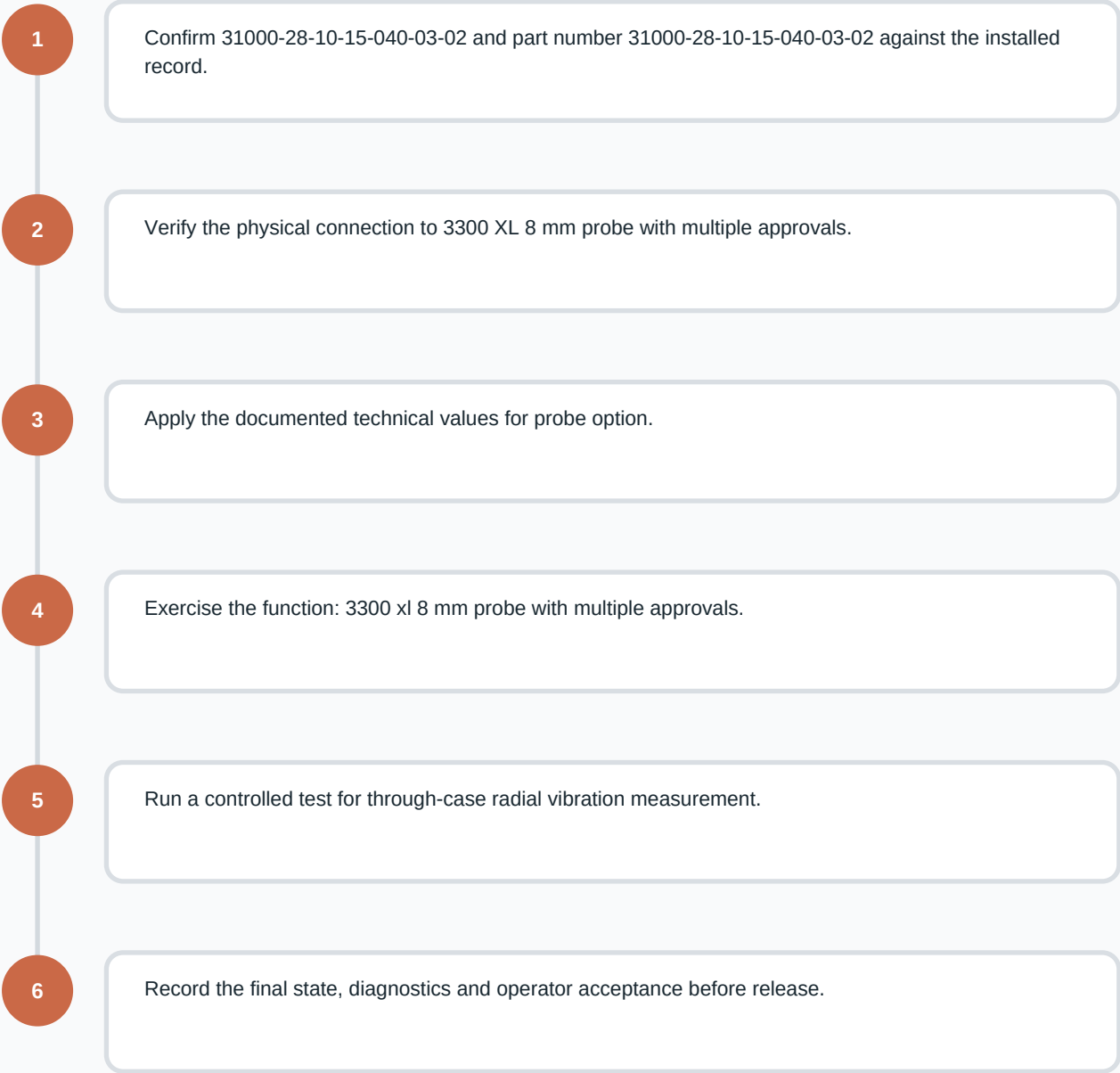
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Probe option	3300 XL 8 mm probe with multiple approvals
Probe cable	1.0 m (39 in)
Minimum standoff	1.5 in (38 mm)
Probe penetration	4.0 in (101.6 mm)
Fittings	E03: two plugs; 3/4-14 NPT fitting; 3/4-14 to 1/2-14 NPT SST reducer; cable-seal grip with grommets
Mounting thread	F02: 3/4-14 NPT
Housing material	Glass-reinforced conductive PPS
Sleeve and chain	AISI 304 stainless steel
Outer sleeve and screws	AISI 303 stainless steel
Seals	Viton probe-case O-ring; Neoprene sleeve-housing O-ring
Environmental rating	Type 4X CSA; IP66; EN50014 electrostatic dissipation
Probe temperature	-51 to +177 degC
Retaining-nut torque	29.4 N m (260 in-lb)
Typical housing strength	912 N (205 lb)

FIELD NOTE

The exact code specifies A28, B10, C15, D040, E03 and F02 options. The PPS/304/303 construction is Type 4X CSA and IP66; the housing is mechanical and environmental protection only, not pressure-rated or explosion-proof.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	31000-28-10-15-040-03-02 / 31000-28-10-15-040-03-02 recorded
Physical interface	3300 XL 8 mm probe with multiple approvals
Companion check	1.0 m probe cable
Functional proof	3300 XL 8 mm probe with multiple approvals
Application test	Through-case radial vibration measurement

04 RETURN-TO-SERVICE RECORD

- ☐
- Verify E03 fittings, grommet range and F02 3/4-14 NPT mounting thread before sealing.
- ☐
- Do not treat the housing as explosion-proof or pressure-rated; protect PPS, sleeves and seals from impact and chemicals.
- ☐
- Apply the documented retaining-nut torque, then verify gap, cable and alarm channel before return to service.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	31000-28-10-15-040-03-02
INSTALLED POSITION	Documented Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐
- Confirm 31000-28-10-15-040-03-02 remains assigned to the documented Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies position.
- ☐
- Verify the connection to 3300 XL 8 mm probe with multiple approvals and 1.0 m probe cable.
- ☐
- Exercise the intended function: 3300 xl 8 mm probe with multiple approvals.
- ☐
- Retain the diagnostic and functional-test result for through-case radial vibration measurement.

SOURCE IDENTIFIERS

Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet
141610 Rev. R

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