

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

31000 Proximity Probe Housing Assembly with 3300 XL 8 mm probe

Protected mechanical path for the installed non-contact proximity measurement

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 31000 & 32000 Proximity Prob

PART

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

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PRODUCT OVERVIEW

Protected mechanical path for the installed non-contact proximity measurement

1

3300 XL 8 mm probe with multiple approvals

2

1.0 m cable, 1.5 in standoff and 4.0 in penetration

3

E03 fitting set with F02 3/4-14 NPT mounting thread

4

Conductive PPS housing with stainless-steel mechanical parts

SYSTEM COMPONENTS

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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)
Typical weight	1.2 kg
Compliance	API 670 compatible

TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Through-case radial vibration measurement

3300 XL 8 mm probe with multiple approvals

Keyphasor reference mounting

1.0 m cable, 1.5 in standoff and 4.0 in penetration

Probe gap adjustment without disassembly

E03 fitting set with F02 3/4-14 NPT mounting thread

Protected hazardous-area installation

Conductive PPS housing with stainless-steel mechanical parts

PRODUCT PRECAUTIONS

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

ENGINEER FAQ

Q1 Does 31000-28-10-15-040-03-02 match 3300 XL 8 mm probe with multiple approvals in a Through-case radial vibration measurement installation?

Verify the complete 31000-28-10-15-040-03-02 marking, the documented Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies position and the installed 3300 XL 8 mm probe with multiple approvals before fitting the assembly.

Q2 How should 31000-28-10-15-040-03-02 be wired when it must 3300 xl 8 mm probe with multiple approvals?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 31000-28-10-15-040-03-02; then continuity-test the affected path.

Q3 Which Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies records should be captured before removing 31000-28-10-15-040-03-02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 31000-28-10-15-040-03-02 before disconnection.

Q4 What controlled test confirms that 31000-28-10-15-040-03-02 can 1.0 m cable, 1.5 in standoff and 4.0 in penetration?

Apply the approved field or simulated stimulus, observe the Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 1.0 m probe cable condition should be checked when 31000-28-10-15-040-03-02 reports an abnormal state?

Check the 1.0 m probe cable supply, seating and connection first, then compare channel diagnostics with the recorded 31000-28-10-15-040-03-02 baseline.

Q6 Can 31000-28-10-15-040-03-02 be moved directly into Keyphasor reference mounting without validating Compatible Bently Nevada monitor and approved barriers where required?

No. Confirm the Compatible Bently Nevada monitor and approved barriers where required, revision, connection scheme and Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies configuration before transferring 31000-28-10-15-040-03-02 to that duty.

Q7 What maintenance evidence is required after 31000-28-10-15-040-03-02 is used for Probe gap adjustment without disassembly?

Retain the nameplate record, corrective action, final diagnostics and a controlled probe gap adjustment without disassembly functional-test result for 31000-28-10-15-040-03-02.

Q8 How should 31000-28-10-15-040-03-02 be returned to service in Protected hazardous-area installation?

Restore power under control, verify e03 fitting set with f02 3/4-14 npt mounting thread, exercise the intended signal path and release 31000-28-10-15-040-03-02 only after the Bently Nevada 31000 & 32000 Proximity Probe Housing Assemblies remains in its approved operating state.

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

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