Bently Nevada 21000-16-10-35-098-03-02

01 Function and selected configuration

Product function

Bently Nevada 21000-16-10-35-098-03-02 provides an externally accessible mounting arrangement for positioning a proximity probe through a machine casing.

Selected configuration

The selected assembly combines a 3.5-inch standoff with a 9.8-inch penetration. Their sum is 13.3 inches, exceeding the 12-inch threshold at which additional sleeve support near the probe is required to avoid an unsupported extended installation.

Functional path

Casing mount	Supported sleeve	XL 8 mm probe	Matched signal chain

Probe arrangement	XL 8 mm probe with 1.0 m lead
Positioning	3.5 in standoff and 9.8 in penetration
Mounting	3/4-14 NPT

The 03 fitting arrangement includes a plug, reducer and cable seal grip. The 02 mounting option uses 3/4-14 NPT threads and suits the nonzero standoff arrangement. Verify the casing connection and internal clearance together before positioning the sleeve.

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02 Technical operating envelope

Probe selection	3300 XL 8 mm
Probe lead	1.0 m
Standoff	3.5 in
Penetration	9.8 in
Mounting thread	3/4-14 NPT

Fitting set	3/4-14 NPT plug, reducer to 1/2 NPT and cable seal grip
Housing material	Aluminum
Sleeve material	304 stainless steel
Probe adjustment	Approximately ±13 mm
Sleeve support	Required when standoff plus penetration exceeds 300 mm

Standoff and penetration are functional mounting selections. They do not set the sensor electrical calibration or confer hazardous-area approval.

Signal interpretation

The 13.3-inch combined standoff and penetration requires additional sleeve support near the probe.

Interface boundary

The 03 fitting option does not by itself establish a hazardous-area approval. Evaluate the actual assembly and installation separately.

What is included in the fitting option of 21000-16-10-35-098-03-02?

The selected set comprises a 3/4-14 NPT plug, a reducer to 1/2 NPT and a cable seal grip.

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03 System integration and applications

Casing access

An external housing provides access to the probe and its lead connection.

Extended penetration

The selected sleeve reaches a target 9.8 inches beyond its penetration reference.

Stand-off clearance

A 3.5-inch standoff separates the external housing from the mounting face.

Gap adjustment

The sleeve arrangement supports final probe positioning within its adjustment allowance.

System and supply context

The housing is the mechanical access and positioning assembly around the selected probe.

Application boundary

Use the assembly where its casing thread, penetration and support arrangement match the machine design.

Does 21000-16-10-35-098-03-02 need additional sleeve support?

Yes. Its 3.5-inch standoff plus 9.8-inch penetration totals 13.3 inches, above the 12-inch support threshold.

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04 Engineering selection decisions

Which probe arrangement belongs in 21000-16-10-35-098-03-02?

The selected probe is a 3300 XL 8 mm type with a 1.0 m lead.

What thread fixes 21000-16-10-35-098-03-02 to the machine?

The selected mounting interface is 3/4-14 NPT.

How much probe adjustment is available through 21000-16-10-35-098-03-02?

The assembly provides approximately ±13 mm of adjustment; confirm the target clearance over the required machine movement.

Does the cable fitting on 21000-16-10-35-098-03-02 establish hazardous-area approval?

No. Approval must be established for the actual assembly and installation; it cannot be inferred from the 03 fitting selection.

Cable sealing	Use the selected plug, reducer and seal-grip arrangement.
Probe adjustment	Set the gap with the complete transducer chain connected.

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05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of 21000-16-10-35-098-03-02 is unconfirmed.

Replacement assessment

Retain the matched transducer family, total electrical length and target calibration. Recheck the channel response after replacing a component.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; it does not replace manufacturer instructions.

Technical basis

Bently Nevada 21000 and 24701 Proximity Probe Housing Assemblies, 141600 Rev. AC.

Related product navigation

- Bently Nevada 330103-00-18-05-02-05
- Bently Nevada 330103-00-14-10-01-00

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries