24701-28-10-XX-149-03-XX MOD:323933-00-02

01 / Job scope and assembly boundary

Machine casing — 24701 housing + probe — Matched sensor — Monitor channel

Bently Nevada 24701-28-10-XX-149-03-XX MOD:323933-00-02 is a modified 24701 stainless-steel probe housing assembly for external proximity-probe mounting and adjustment.

Installed-system role

The housing provides mechanical support and external adjustment. Electrical performance comes from the installed proximity probe, matching cable, Proximitor sensor and monitor. A housing-family match alone does not establish channel compatibility.

Before work begins

Follow the site isolation and machine-access procedure. Identify the affected measurement channel and retain its gap and configuration records before loosening the housing or sleeve.

Configuration control

Keep 24701-28-10-XX-149-03-XX MOD:323933-00-02 as the complete identity. The two XX positions and MOD 323933-00-02 are controlled configuration identifiers; establish the final standoff, mounting thread and modified geometry from the assembly marking and approved drawing.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apter Power guide - apply the approved assembly and site instructions.

24701-28-10-XX-149-03-XX MOD:323933-00-02

02 / Pre-installation readiness

Complete identity	Keep 24701-28-10-XX-149-03-XX MOD:323933-00-02 as the complete identity. The two XX positions and MOD 323933-00-02 are controlled configuration identifiers; establish the final standoff, mounting thread and modified geometry from the assembly marking and approved drawing.
Mounting interface	Match the actual thread, casing opening, standoff and penetration to the approved installation drawing. Do not translate XX into a standard option.
Probe and lead	Check the installed probe identification, lead condition and complete cable selection against the matched measuring channel. Keep the lead longer than the sleeve.
Fittings and seals	The standard 03 option is one 3/4-14 npt plug, one 3/4-14 to 1/2-14 npt reducer and cable seal-grip kit. Check the installed components and cable entry against the modified configuration before sealing the housing.

Reach and access review

The base penetration is 14.9 in and already exceeds the 12 in support threshold. Provide support near the probe to control unsupported-sleeve resonance. The final modified geometry is controlled by the approved assembly drawing.

Support review

Review combined standoff and penetration against the standard sleeve-support requirement. A long unsupported sleeve can move relative to the target; check support location and sealing before insertion.

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24701-28-10-XX-149-03-XX MOD:323933-00-02

03 / Installation and replacement sequence

01 / Match the modification	Use the full 24701-28-10-XX-149-03-XX MOD:323933-00-02 identity. Verify the modification drawing, actual mounting thread and standoff arrangement before installation; XX must not be treated as a zero option.
02 / Check reach and target clearance	The base penetration is 14.9 in and already exceeds the 12 in support threshold. Provide support near the probe to control unsupported-sleeve resonance.
03 / Support the complete sleeve	Evaluate the full standoff-plus-penetration reach. Provide support near the probe when the combined reach exceeds 12 in (300 mm); confirm the support and oil-seal arrangement through an inner bearing housing.
04 / Route the probe cable	The base cable option is 1.0 m (39 in). Confirm the actual cable under MOD 323933-00-02, keep it longer than the sleeve and allow access without loading the connector.

Mechanical assembly checks

Check that the sleeve can be adjusted without cable strain. Match the selected fittings to the cable entry and preserve the approved seal arrangement. Do not force a thread or add an unapproved adapter to make a different housing fit.

Before closing the housing

Inspect the probe connection, lead routing and clearance. Record the final mounting arrangement and retain the complete MOD identity with the installation record.

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04 / Commissioning and acceptance

Mechanical alignment	Verify the probe faces the intended conductive target and that the casing mount and any near-tip support are secure.
Gap setting	Set the operating gap using the matched transducer-system procedure. Keep sufficient usable adjustment in both directions.
Channel response	Verify stable gap indication and expected response using the approved site check; apply scaling for the actual probe, cable and sensor combination.
Final release	Inspect cable strain relief, entry seals and enclosure closure. Resolve unstable response or mechanical movement before returning the channel to operation.

Configuration-specific check

The standard 10 position corresponds to 1.0 m (39 in). Verify the actual lead against the modification drawing and the complete sleeve reach. The lead must be longer than the sleeve and must match the electrical measuring chain.

Acceptance record

Retain the complete assembly and probe identifications, approved drawing reference, channel configuration and recorded check results. Any substituted component requires a fresh compatibility review.

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05 / Diagnostics and service handover

Unstable gap indication	Check sleeve restraint, support, probe connection and cable strain before interpreting the change as machine movement.
Unexpected channel response	Verify the actual probe, cable and Proximitor combination. Mechanical fit does not prove electrical matching.
Replacement assembly differs	Compare the complete model, MOD, mounting interface and supplied items. Obtain engineering approval for changed geometry or configuration.

Technical basis

Bently Nevada 21000, 24701, and 164818 Proximity Probe Housing Assemblies, 141600 Rev. AC. This Apter Power field guide does not replace the manufacturer instructions or approved modification drawing.

Other Bently Nevada references

Bently Nevada 330102-00-30-10-01-05

Bently Nevada 330104-01-09-90-01-05

Bently Nevada 330104-01-09-50-01-05

Separate product listings for further review. They are not approved substitutes or included accessories.

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