



Bently Nevada 24701-28-05-XX-025-04-XX MOD 323933-30-02

Compact Proximity Probe Housing Assembly

Product scope

- Uses a 2.5 in insertion depth for targets near the external case wall.
- Provides the package 04 single-plug connection arrangement.
- Retains a 0.5 m probe allowance within a stainless-steel protective housing.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Compact Proximity Probe Housing Assembly

Product overview

Bently Nevada 24701-28-05-XX-025-04-XX MOD 323933-30-02 is a compact stainless-steel external probe housing with 0.5 m cable provision, 2.5 in penetration and the single-plug fitting option. MOD 323933-30-02 defines its controlled variant.

24701-28-05-XX-025-04-XX MOD 323933-30-02 provides a short 2.5 in insertion path for a 3300 XL 8 mm probe. The 05 lead option and 04 fitting choice keep the assembly compact while retaining an external 3/4-14 NPT plug.

This shorter housing suits machine cases where the shaft target lies close to the outer mounting surface. Stainless-steel construction protects the probe and creates a firm point from which the operating gap can be adjusted.

The MOD reference differs from the other 24701 records in this batch and must remain intact. Confirm the XX fields and 323933-30-02 drawing rather than selecting by the 2.5 in depth alone.

Technical specifications

Probe family option	28; 3300 XL 8 mm with selectable approval option
Probe cable length	0.5 m / 20 in
Probe penetration	2.5 in / 63.5 mm
Fitting package	04; one 3/4-14 NPT plug
Housing body material	303 stainless steel
Sleeve material	304 stainless steel
Housing style	Compact external probe housing
Standoff field	XX; controlled selection
Mounting-thread field	XX; controlled selection
MOD drawing reference	323933-30-02
Typical mass without fittings	1.8 kg / 4.0 lb

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function and operating principle

Ordered configuration

This 025 version is the short-reach 24701 configuration selected for the current order.

System role

It secures the probe close to the machine exterior while maintaining covered access to the connection.

Selection and installation

Drawing 323933-30-02, standoff length and mounting thread must all match before the old housing is removed.

Functional path

- Uses a 2.5 in insertion depth for targets near the external case wall.
- Provides the package 04 single-plug connection arrangement.
- Retains a 0.5 m probe allowance within a stainless-steel protective housing.

Application scenarios

- Compact bearing housings can use the short sleeve when the monitored shaft is close to the case surface.
- Machine upgrades can add an external protective cover without creating an unnecessarily long probe support.
- Routine probe-gap service can be performed from outside the equipment after the connection cover is opened.

24701-28-05-XX-025-04-XX MOD 323933-30-02 engineering checks

Temperature & Humidity Range

- The probe and sealing arrangement must remain within the selected 3300 XL 8 mm temperature limits.
- Condensation control depends on intact threads and a fully seated external plug.
- Thermal growth of the machine case should be considered when setting the cold probe gap.

Safety & Compliance

- The short housing still requires a complete thread-engagement and locking check before startup.
- Do not infer hazardous-area suitability unless the installed assembly carries the applicable approval marking.
- Isolation procedures should keep the machine stationary while the probe penetration and gap are adjusted.

Diagnostics & Protection

- The housing protects the probe connection against accidental contact during normal operation.
- A sudden gap change after service can indicate incorrect locknut position or incomplete thread engagement.
- Cable and connector insulation should be tested if moisture is found beneath the external cover.

Critical technical note

Use MOD drawing 323933-30-02 when replacing 24701-28-05-XX-025-04-XX; the compact penetration does not resolve its XX mechanical fields.

The technical content in this document is limited to the exact product identity shown above and the verified manufacturer material used for preparation.



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