

Bently Nevada 24701-28-05-XX-104-03-XX MOD 323933-00-02

Stainless-Steel Proximity Probe Housing Assembly

Product scope

- Holds a 3300 XL 8 mm probe at a 10.4 in defined penetration.
- Uses the 0.5 m cable option with the package 03 external fitting set.
- Separates the protected connection area from the internal sensing location.

Manufacturer source

Exact-model technical record

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

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Stainless-Steel Proximity Probe Housing Assembly

Product overview

Bently Nevada 24701-28-05-XX-104-03-XX MOD 323933-00-02 is a stainless-steel housing assembly with a 0.5 m probe provision and 10.4 in penetration. Its package 03 fittings support sealed external cable routing.

24701-28-05-XX-104-03-XX MOD 323933-00-02 uses a 10.4 in penetration code within the 24701 housing family. The selected 0.5 m probe length reaches through the sleeve while leaving the connection available under the external cover.

During operation, the housing does not generate or condition the signal; it fixes the probe mechanically so the associated 3300 XL system can convert target gap into voltage. Its stainless construction suits permanent machine-case installation.

A correct replacement must preserve the full mechanical stack. Verify standoff, mounting thread, cable routing, fitting package and drawing 323933-00-02 before setting the probe gap.

Technical specifications

Probe family option	28; 3300 XL 8 mm with selectable approval option
Probe cable length	0.5 m / 20 in
Probe penetration	10.4 in / 264.2 mm
Fitting package	03; plug, NPT reducer and cable seal grip
Housing body material	303 stainless steel
Sleeve material	304 stainless steel
Cable sealing range	Grommets cover 1/8 to 3/8 in cable diameters
Standoff field	XX; nameplate or drawing confirmation required
Mounting-thread field	XX; nameplate or drawing confirmation required
MOD drawing reference	323933-00-02
Support threshold	Sleeves above 12 in require support
Typical mass without fittings	1.8 kg / 4.0 lb

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function and operating principle

Ordered configuration

The 104 penetration field gives this assembly a 10.4 in reach into the machine case.

System role

It creates a stable probe reference and a serviceable external termination for the proximity measurement chain.

Selection and installation

Check cable reach and controlled XX fields before the probe is threaded, locked and electrically connected.

Functional path

- Holds a 3300 XL 8 mm probe at a 10.4 in defined penetration.
- Uses the 0.5 m cable option with the package 03 external fitting set.
- Separates the protected connection area from the internal sensing location.

Application scenarios

- Shaft-displacement channels can use the housing where the sensor must pass through a moderately deep case wall.
- Bearing-monitoring retrofits can reproduce an existing 10.4 in probe position with accessible external wiring.
- Maintenance teams can inspect the cable seal and connector without disturbing the internal target geometry.

24701-28-05-XX-104-03-XX MOD 323933-00-02 engineering checks

Certifications & Standards

- The associated 3300 XL 8 mm system is engineered around industry-standard proximity measurement practice.
- Hazardous-location certification must be read from the completed assembly rather than inferred from a family number.
- Custom drawing 323933-00-02 controls configuration but is not itself a certification label.

Performance & Efficiency

- Measurement repeatability depends on a rigid mounting reference and consistent probe gap.
- The 10.4 in sleeve path must remain free of contact that could transfer machine-case motion to the probe tip.
- Passive housing construction introduces no electrical power consumption or signal conversion stage.

Installation & Integration

- The 0.5 m probe lead must extend beyond the full sleeve and connection path.
- Package 03 fittings should be assembled with the correct grommet for the actual cable diameter.
- Standoff and mounting-thread XX fields must match the existing case interface before tightening.

Critical technical note

Before setting the gap with 24701-28-05-XX-104-03-XX MOD 323933-00-02, confirm that the 0.5 m probe lead remains longer than the complete sleeve path.

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