

Bently Nevada 24701-28-05-XX-065-03-XX MOD 323933-00-02

Stainless-Steel Proximity Probe Housing Assembly

Product scope

- Positions the sensing tip at a documented 6.5 in penetration.
- Routes a 0.5 m probe lead through the package 03 sealing arrangement.
- Provides 303/304 stainless-steel construction for a durable external mounting point.

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-065-03-XX MOD 323933-00-02 is a 24701 stainless-steel external probe housing for a 0.5 m probe, 6.5 in penetration and fitting package 03. The exact standoff and mounting thread remain encoded as XX.

24701-28-05-XX-065-03-XX MOD 323933-00-02 sets a 6.5 in probe penetration within the 24701 external housing. The assembly uses the 05 cable-length option and package 03 sealing hardware to route a 0.5 m probe lead toward the connection cover.

The stainless-steel sleeve holds the sensing tip at a defined distance inside the machine case while leaving adjustment and termination access outside. This arrangement supports shaft-relative measurements where internal probe access is impractical.

Mechanical equivalence depends on more than penetration. Confirm the XX standoff and thread selections, probe lead reach and the 323933-00-02 modification drawing before installation.

Technical specifications

Probe family option	28; 3300 XL 8 mm with selectable approval option
Probe cable length	0.5 m / 20 in
Probe penetration	6.5 in / 165.1 mm
Fitting package	03; plug, reducer and cable seal grip
Housing body material	303 stainless steel
Sleeve material	304 stainless steel
External plug	3/4-14 NPT
Conduit reducer	3/4-14 to 1/2-14 NPT
Cable-seal grommets	Three ranges for 1/8 to 3/8 in cables
Standoff field	XX; verify installed configuration
Mounting-thread field	XX; verify installed configuration
MOD drawing reference	323933-00-02
Typical mass without fittings	1.8 kg / 4.0 lb

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function and operating principle

Ordered configuration

The 065 field distinguishes this medium-depth housing from shorter and longer 24701 assemblies.

System role

Its sleeve guides the probe toward the shaft target while the outer housing protects adjustment and connection hardware.

Selection and installation

Selection must retain the controlled standoff, mounting thread and drawing reference in addition to the visible penetration.

Functional path

- Positions the sensing tip at a documented 6.5 in penetration.
- Routes a 0.5 m probe lead through the package 03 sealing arrangement.
- Provides 303/304 stainless-steel construction for a durable external mounting point.

Application scenarios

- Pump and compressor bearing cases can use the assembly where a 6.5 in reach is required to view the shaft.
- Oil-system machinery can benefit from the seal-grip fittings when routing the probe lead out of the housing.
- Service work can restore the same sensing geometry after a probe is removed for inspection.

24701-28-05-XX-065-03-XX MOD 323933-00-02 engineering checks

Operating Environment

- The stainless-steel housing is intended for external industrial machine installations exposed to normal plant contaminants.
- Thread sealing and cover closure should prevent oil mist or moisture from reaching the probe connection.
- Vibration at the bracket must be minimized so housing motion does not appear as shaft displacement.

Diagnostics & Protection

- Stable gap readings require a rigid sleeve, secure probe lock and intact connector insulation.
- A drifting signal can indicate loose mounting, connector contamination or an incorrect probe depth.
- The external enclosure protects the connection but does not replace transducer-system electrical diagnostics.

Configuration & Programming

- The 6.5 in penetration is a mechanical configuration and must match the machine drawing before gap adjustment.
- Monitor channel setup must correspond to the installed 3300 XL 8 mm transducer system and its electrical length.
- Alarm and scale settings are established in the monitoring system, not in the passive housing assembly.

Critical technical note

Do not infer the standoff or mounting thread for 24701-28-05-XX-065-03-XX MOD 323933-00-02 from its 6.5 in penetration code; verify the controlled fields separately.

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