24701-28-05-XX-117-03-XX MOD:323933-00-02

01 / Product role and configuration

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

A longer penetration increases the importance of sleeve stiffness and internal clearance. Assess the complete standoff-plus-penetration reach rather than penetration alone.

Assembly identity

MOD 323933-00-02 remains part of the supplied identity; retain both XX positions.

Product series	24701 probe housing assemblies
Modification identifier	323933-00-02
Base housing body material	303 stainless steel
Base sleeve material	304 stainless steel

Final mounting geometry and included items are controlled by the approved drawing and quotation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

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

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02 / Technical capability and interfaces

Base-order probe option 28	3300 XL 8 mm probe with approval option
Base-order cable option 05	0.5 m (20 in)
Base-order penetration 117	11.7 in
Base-order fittings 03	One 3/4-14 NPT plug, one 3/4-14 to 1/2-14 NPT reducer and cable seal-grip kit

Mechanical versus electrical 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.

Standard penetration adjustment	+/-0.5 in (13 mm)
Long-sleeve support threshold	Combined standoff and penetration greater than 12 in (300 mm)
Probe lead relationship	Lead must be longer than the sleeve
Service access	External probe mounting and adjustment
Standard companion support	37948-01 probe support and oil seal; selected separately

These standard-family relationships require checking against the actual modified assembly.

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03 / Integration and operating context

Radial shaft monitoring

Support a correctly matched proximity probe at a machine casing for radial shaft vibration measurement. The probe, cable, Proximitor sensor and monitor must form the intended measuring chain.

Axial position monitoring

Position a suitable proximity probe toward a conductive axial target. Check the final sleeve reach, mounting stiffness and usable probe gap before commissioning.

Installed chain

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.

Combined-reach assessment

The base penetration is 11.7 in. Even a short added standoff can take the combined reach beyond 12 in, where support near the probe is required.

External probe maintenance

Access the sleeve from outside the machine. Record its position before removal and re-establish the operating gap and channel response after reinstallation.

MOD control

Compare the actual assembly to MOD 323933-00-02 before approving installation or replacement.

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04 / Engineering decisions and precautions

Match the modification

Use the full 24701-28-05-XX-117-03-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.

Check reach and target clearance

The base penetration is 11.7 in. Even a short added standoff can take the combined reach beyond 12 in, where support near the probe is required.

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.

Route the probe cable

The base cable option is 0.5 m (20 in). Confirm the actual cable under MOD 323933-00-02, keep it longer than the sleeve and allow access without loading the connector.

Verify fittings and area suitability

The base fittings selection is one 3/4-14 npt plug, one 3/4-14 to 1/2-14 npt reducer and cable seal-grip kit. Match actual fittings and seals to the modified unit. The 24701 marking must not be treated as CA24701 explosion-proof certification.

Verify the measuring channel

Check probe identity, matched electrical components, target clearance and stable gap response. Confirm monitor scaling and the approved machine acceptance procedure before returning the channel to service.

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05 / Service review and related references

Offered-unit review

Request a legible complete model and MOD marking, housing-body and sleeve views, the probe identification and cable entry. Compare the mounting interface and modification drawing before approving a replacement.

Included items and channel boundary

The offered item is a housing assembly. Confirm the probe, sleeve, selected fittings, seals and accompanying documents item by item in the quotation. A Proximitor sensor, extension cable, monitor or compatible support is included only when expressly listed; confirm quantity and dispatch separately.

Technical basis

Bently Nevada 21000, 24701, and 164818 Proximity Probe Housing Assemblies, 141600 Rev. AC

Other Bently Nevada references

Bently Nevada 330103-00-09-10-02-00

Bently Nevada 24701-28-05-00-025-04-02

Bently Nevada 24701-28-05-65-105-03-02

Separate references only. Confirm compatibility and included items for the actual installation.

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