

Bently Nevada 24701-28-05-00-070-04-02

Installation & Commissioning Guide

Bently Nevada 24701-28-05-00-070-04-02 is a 24701 stainless-steel housing configured for a multiple-approval 3300 XL 8 mm probe, a 0.5 m probe cable and a 7.0 in penetration dimension.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Uses the stainless-steel 24701 externally mounted housing.

Feature 2

Includes the multiple-approval 3300 XL 8 mm probe option.

Feature 3

Sets probe penetration to 7.0 in without a standoff adapter.

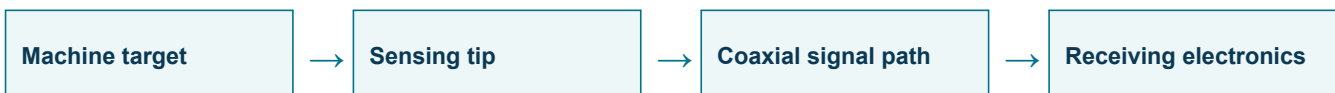
Feature 4

Provides the selected M25 entry hardware and 3/4-14 NPT mounting thread.

VERIFIED DATA SNAPSHOT

Housing family	24701 stainless steel
Probe option	3300 XL 8 mm with approval option
Probe cable length	0.5 m / 20 in
Standoff	Not required

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
 WhatsApp / Phone: +86 180 3023 5313
 Email: sales13@apterpower.com
 Scan the approved WhatsApp code for model-specific support.



Pre-installation readiness

READINESS GATE

Identity Compare the complete marking with the approved work order and installed record.	System match Confirm the receiving channel, mating components and controlled configuration.
Physical condition Inspect mounting surfaces, connectors, terminals, cable and support hardware.	Work controls Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Housing family 24701 stainless steel	Probe option 3300 XL 8 mm with approval option
Probe cable length 0.5 m / 20 in	Standoff Not required
Probe penetration 7.0 in	Fittings option 04, one M25 fitting and one M25 plug
Mounting thread 3/4-14 NPT	

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Bently Nevada 21000, 24701 and 164818 Proximity Probe Housing Assemblies Datasheet 141600 Rev. AC.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

- 01 Confirm every segment of 24701-28-05-00-070-04-02 before preparing the mounting opening.
- 02 Verify the 3/4-14 NPT mounting thread and the 7.0 in penetration requirement.
- 03 Support the probe sleeve whenever the installed length can resonate.
- 04 Install the M25 fitting and plug with the approved seals so the enclosure remains protected.
- 05 Keep the probe connector and 0.5 m lead clean during assembly.
- 06 Check that the probe tip cannot contact the target across the full machine movement envelope.
- 07 Set gap only after housing, sleeve and lock hardware are fully secured.
- 08 Verify the complete proximity channel and record its final response before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state Observe status at power-up and check for unexpected fault or alarm indication.	Static value Verify the expected bias, gap, loop, contact or channel value for the application.
Dynamic response Apply the approved machine or test stimulus and confirm response and scaling.	Protection path Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

External bearing housing Protects a proximity probe installed through a machine bearing casing.	Shaft vibration sensing Positions the 8 mm probe for non-contact shaft-relative vibration measurement.
Static position monitoring Maintains a controlled probe reach for position or displacement channels.	Hazardous-area installation Uses the selected approval and entry arrangement within the controlled installation design.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which probe is selected inside 24701-28-05-00-070-04-02?	Option 28 specifies a 3300 XL 8 mm probe with the approval option.
Which lead length enters the 24701 housing under code 05 in 24701-28-05-00-070-04-02?	Option 05 specifies 20 in, or 0.5 m.

Release record and technical references

CLOSEOUT QUESTIONS

Does 24701-28-05-00-070-04-02 use a standoff adapter?	No. The standoff code is 00.
What is the penetration setting for 24701-28-05-00-070-04-02?	Code 070 specifies 7.0 in.
Which cable-entry hardware belongs to 24701-28-05-00-070-04-02?	Fittings option 04 supplies one M25 fitting and one M25 plug.
What machine thread is required for 24701-28-05-00-070-04-02?	The final 02 option selects 3/4-14 NPT.
When should the sleeve of 24701-28-05-00-070-04-02 receive extra support?	Add support when the installed reach can vibrate or resonate, especially for long penetration assemblies.
What must be proven after closing 24701-28-05-00-070-04-02?	Verify enclosure sealing, probe gap, proportional output and the assigned monitor-channel response.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330102-00-12-10-01-05	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330130-075-01-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330881-28-04-214-00-02	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Bently Nevada 21000, 24701 and 164818 Proximity Probe Housing Assemblies Datasheet 141600 Rev. AC.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE

Release the equipment only after the responsible site authority accepts the recorded result.

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