

# Bently Nevada 24701-28-10-XX-149-03-XX MOD 323933-00-02

Long-Reach Proximity Probe Housing Assembly

## Product scope

- Extends the probe 14.9 in into machinery with a recessed shaft target.
- Accommodates a 1.0 m sensing lead rather than the shorter 0.5 m option.
- Includes cable-seal and reducer hardware under fitting package 03.

## Manufacturer source

Exact-model technical record

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

| Request a fast quote                                                                                                                                              | Product reference                                             |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------|
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# Bently Nevada 24701-28-10-XX-149-03-XX MOD 323933-00-02

## Long-Reach Proximity Probe Housing Assembly

### Product overview

Bently Nevada 24701-28-10-XX-149-03-XX MOD 323933-00-02 is a long-reach stainless-steel probe housing configured for a 1.0 m probe and 14.9 in penetration. Package 03 provides the documented connection fittings.

24701-28-10-XX-149-03-XX MOD 323933-00-02 combines the 10 cable code with an unusually deep 14.9 in penetration. The longer 1.0 m probe allowance supports routing through the sleeve to the protected external connection area.

This configuration is suited to machinery where the monitored shaft lies well inside a thick casing or extended standpipe. The stainless-steel body and sleeve create the mechanical reference required by the non-contacting probe.

Because the penetration exceeds 12 in, sleeve support is mandatory. The unresolved standoff and mounting thread must be established from the fitted assembly or controlled drawing before replacement.

### Technical specifications

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Probe family option           | 28; 3300 XL 8 mm with selectable approval option      |
| Probe cable length            | 1.0 m / 39 in                                         |
| Probe penetration             | 14.9 in / 378.5 mm                                    |
| Fitting package               | 03; plug, reducer and cable seal grip                 |
| Support requirement           | Required because sleeve length exceeds 304 mm / 12 in |
| Housing body material         | 303 stainless steel                                   |
| Sleeve material               | 304 stainless steel                                   |
| Plug thread                   | 3/4-14 NPT                                            |
| Reducer thread                | 3/4-14 to 1/2-14 NPT                                  |
| Standoff field                | XX; controlled selection                              |
| Mounting-thread field         | XX; controlled selection                              |
| MOD drawing reference         | 323933-00-02                                          |
| Typical mass without fittings | 1.8 kg / 4.0 lb                                       |

## 24701-28-10-XX-149-03-XX MOD 323933-00-02

### function and operating principle

#### Ordered configuration

The 149 penetration option makes this the longest-reach assembly in the current batch.

#### System role

Its function is to hold a 3300 XL 8 mm probe steadily across a deep machine-case access path.

#### Selection and installation

A support bracket, exact XX fields and 323933-00-02 drawing match are essential before commissioning.

#### Functional path

- Extends the probe 14.9 in into machinery with a recessed shaft target.
- Accommodates a 1.0 m sensing lead rather than the shorter 0.5 m option.
- Includes cable-seal and reducer hardware under fitting package 03.

#### Application scenarios

- Large turbine casings can use the long sleeve where the shaft surface is recessed behind an extended access port.
- Compressor trains may route the one-metre probe lead from the deep insertion point to an external connection cover.
- Retrofit work can preserve an existing long-reach geometry when the installed support and thread arrangement are documented.

## 24701-28-10-XX-149-03-XX MOD 323933-00-02 engineering checks

### Environmental Ratings

- The external stainless-steel assembly is designed for industrial machinery environments but requires suitable sealing at every threaded interface.
- The connection cover and cable grip should remain closed against oil mist, dust and incidental moisture.
- Any hazardous-area rating applies only when the full ordered assembly carries the required marking.

### Compatibility & Interoperability

- The sleeve accepts the probe configuration selected by the 28 and 10 ordering fields.
- The probe, extension cable and Proximity sensor must form one compatible 3300 XL 8 mm electrical-length system.
- Mechanical compatibility also depends on the unresolved mounting-thread and standoff selections.

### Firmware & Updates

- The housing contains no firmware and requires no software revision management.
- Any configuration change is performed in the connected machinery-monitoring channel rather than this passive assembly.
- Monitor firmware must continue to support the installed transducer channel and alarm strategy.

### Critical technical note

The 14.9 in sleeve in 24701-28-10-XX-149-03-XX MOD 323933-00-02 requires positive support; unsupported motion can corrupt the proximity measurement.

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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