

# 102244-22-50-01

## Proximity Transducer Assembly

The assembly converts probe-to-target displacement into a proportional voltage for its connected monitoring channel.

### PRODUCT SNAPSHOT

**BRAND**

Bently Nevada

**FAMILY**

Bently Nevada proximity measurement system

**PART**

102244-22-50-01

**ORIGIN / HS**

USA / 8537101190

### APTER POWER SALES TEAM

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## PRODUCT OVERVIEW

The assembly converts probe-to-target displacement into a proportional voltage for its connected monitoring channel.

1

Provides the documented Proximity Transducer Assembly function

2

Maintains the engineered signal or power path

3

Integrates with the specified host and companion hardware

4

Supports controlled diagnostics and functional verification

## SYSTEM COMPONENTS

Documented host position and companion hardware

Approved field or control wiring arrangement

Recorded connector, shield and grounding system

Configured monitor, controller or protection channel

### TECHNICAL NOTE

Install 102244-22-50-01 only in the documented Bently Nevada proximity measurement system position and preserve the recorded connections. After installation, restore the approved configuration and complete controlled diagnostic and functional checks.

TECHNICAL DATA

| PARAMETER               | VALUE                |
|-------------------------|----------------------|
| Complete catalog number | 102244-22-50-01      |
| Supply voltage          | 24.5 V DC            |
| Supply current          | 20 mA                |
| Scale factor            | 0.8 V/mm (20 mV/mil) |

| PARAMETER          | VALUE            |
|--------------------|------------------|
| Temperature range  | -35 to +100 degC |
| Reference drawing  | 123265           |
| Calibration target | AISI 4140 steel  |

RELATED PRODUCTS ON APTER POWER

| MODEL                 | SYSTEM ROLE                            | APTER POWER PAGE                                |
|-----------------------|----------------------------------------|-------------------------------------------------|
| 330171-00-12-05-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-12-05-01-05 page</a> |
| 330171-00-33-50-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-33-50-01-05 page</a> |
| 330171-00-08-10-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-08-10-01-05 page</a> |
| 330172-00-08-10-01-05 | 3300 XL 5/8 mm armored proximity probe | <a href="#">View 330172-00-08-10-01-05 page</a> |
| 330103-00-04-10-02-00 | 3300 XL 8 mm metric proximity probe    | <a href="#">View 330103-00-04-10-02-00 page</a> |
| 330103-00-12-10-02-00 | 3300 XL 8 mm metric proximity probe    | <a href="#">View 330103-00-12-10-02-00 page</a> |
| 330103-00-16-10-02-05 | 3300 XL 8 mm metric proximity probe    | <a href="#">View 330103-00-16-10-02-05 page</a> |
| 330106-05-30-05-02-00 | 3300 XL 8 mm reverse-mount probe       | <a href="#">View 330106-05-30-05-02-00 page</a> |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Bently Nevada proximity measurement system installed-base service

Provides the documented Proximity Transducer Assembly function

### Bently Nevada proximity measurement system compatibility review

Maintains the engineered signal or power path

### Bently Nevada proximity measurement system installation planning

Integrates with the specified host and companion hardware

### Bently Nevada proximity measurement system controlled commissioning

Supports controlled diagnostics and functional verification

## PRODUCT PRECAUTIONS

- 1 Verify the complete 102244-22-50-01 marking and installed position before work.
- 2 Place the connected equipment in the approved maintenance state.
- 3 Isolate applicable power and signal energy before disconnecting wiring.
- 4 Use ESD controls and protect connectors from contamination or damage.
- 5 Record as-found cable, terminal, shield and grounding identity.
- 6 Restore only the approved system configuration for this exact catalog number.
- 7 Inspect mechanical mounting and cable support before energization.
- 8 Complete controlled diagnostics and a functional response test before release.

# ENGINEER FAQ

## **Q1 Does 102244-22-50-01 match Documented host position and companion hardware in a Bently Nevada proximity measurement system installed-base service installation?**

Verify the complete 102244-22-50-01 marking, the documented Bently Nevada proximity measurement system position and the installed Documented host position and companion hardware before fitting the assembly.

## **Q3 Which Bently Nevada proximity measurement system records should be captured before removing 102244-22-50-01?**

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 102244-22-50-01 before disconnection.

## **Q5 Which Approved field or control wiring arrangement condition should be checked when 102244-22-50-01 reports an abnormal state?**

Check the Approved field or control wiring arrangement supply, seating and connection first, then compare channel diagnostics with the recorded 102244-22-50-01 baseline.

## **Q7 What maintenance evidence is required after 102244-22-50-01 is used for Bently Nevada proximity measurement system installation planning?**

Retain the nameplate record, corrective action, final diagnostics and a controlled bently nevada proximity measurement system installation planning functional-test result for 102244-22-50-01.

## **Q2 How should 102244-22-50-01 be wired when it must provides the documented proximity transducer assembly function?**

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 102244-22-50-01; then continuity-test the affected path.

## **Q4 What controlled test confirms that 102244-22-50-01 can maintains the engineered signal or power path?**

Apply the approved field or simulated stimulus, observe the Bently Nevada proximity measurement system indication and confirm the intended response without bypassing the normal interlocks.

## **Q6 Can 102244-22-50-01 be moved directly into Bently Nevada proximity measurement system compatibility review without validating Configured monitor, controller or protection channel?**

No. Confirm the Configured monitor, controller or protection channel, revision, connection scheme and Bently Nevada proximity measurement system configuration before transferring 102244-22-50-01 to that duty.

## **Q8 How should 102244-22-50-01 be returned to service in Bently Nevada proximity measurement system controlled commissioning?**

Restore power under control, verify integrates with the specified host and companion hardware, exercise the intended signal path and release 102244-22-50-01 only after the Bently Nevada proximity measurement system remains in its approved operating state.

**SOURCE** Bently Nevada product nameplate and drawing record | Drawing 123265

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