

INDUSTRIAL AUTOMATION PRODUCT

102244-22-50-01

Proximity Transducer Assembly

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada proximity measurement system
Part number	102244-22-50-01
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Documented host position and companion hardware
Companion hardware	Approved field or control wiring arrangement
Field connection	Recorded connector, shield and grounding system
Primary system function	Provides the documented Proximity Transducer Assembly function
Controlled acceptance duty	Bently Nevada proximity measurement system installed-base service

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System Role and Architecture

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

FUNCTION 1

Provides the documented Proximity Transducer Assembly function

FUNCTION 2

Maintains the engineered signal or power path

FUNCTION 3

Integrates with the specified host and companion hardware

FUNCTION 4

Supports controlled diagnostics and functional verification

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Documented host position and companion hardware
Companion hardware	Approved field or control wiring arrangement
Field connection	Recorded connector, shield and grounding system
Primary system function	Provides the documented Proximity Transducer Assembly function
Controlled acceptance duty	Bently Nevada proximity measurement system installed-base service

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	102244-22-50-01 / 102244-22-50-01 recorded
Physical interface	Documented host position and companion hardware
Companion check	Approved field or control wiring arrangement
Functional proof	Provides the documented Proximity Transducer Assembly function
Application test	Bently Nevada proximity measurement system installed-base service

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330103-00-16-10-02-05	3300 XL 8 mm metric proximity probe	View 330103-00-16-10-02-05 page
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	View 330106-05-30-05-02-00 page
330130-045-00-00	3300 XL standard extension cable	View 330130-045-00-00 page
330130-080-02-05	3300 XL extension cable	View 330130-080-02-05 page
330850-50-00	3300 XL NSv Proximitior Sensor	View 330850-50-00 page
330171-00-12-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-50-01-05 page
330171-00-12-05-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-05-01-05 page
330171-00-33-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-33-50-01-05 page

MANUFACTURER SOURCE RECORD

Bently Nevada product nameplate and drawing record

Drawing 123265

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