

01 / PLAN AND IDENTIFY

Bently Nevada 3300/47 is a two-input complementary differential-expansion monitor that combines alternating proximity-probe ranges to extend axial expansion measurement beyond one probe's linear span.

Identity gate

Model	3300/47
Function	Complementary input differential expansion
Inputs	Two proximity-probe transducer signals
Display	Magnitude and direction on LCD
Rack space	One 3300 rack position

Work boundary

Exact item 3300/47	Installed context Mating component or rack position	Acceptance Machine-specific functional check
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01 Record the as-found item

Capture the complete identifier, installed point and mating components before removal. Apply the authorized isolation and protection-bypass procedure.

Related Bently Nevada models

Bently Nevada 330103-00-03-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330103-00-20-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330104-00-03-05-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330104-02-10-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330905-00-03-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330980-51-CN	Related portfolio reference; verify the complete execution.

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02 / PRE-INSTALLATION

Readiness gate

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed

02 Inspect condition

Check the nameplate, mounting surfaces, connectors, cable or enclosure for damage and contamination. Reject an item whose exact identity or condition cannot be confirmed.

03 Review the source

141590-01 Rev. F: complementary-input principle p. 1; inputs, accuracy, outputs and alarms pp. 2-3; physical and ordering information p. 4; configurable options p. 5; field wiring p. 6.

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03 / INSTALL AND CONNECT

04 / Installation check

Confirm the complete 3300/47 option code before assigning range or transducer type.

05 / Installation check

Document both probe orientations, gaps and the mechanical crossover geometry.

06 / Installation check

Verify the selected scale factor matches both connected transducer systems.

07 / Installation check

Check recorder-output format and receiving-system scaling before loop connection.

08 / Installation check

Confirm alert and danger direction for positive and negative expansion travel.

Documented data to respect

Signal Inputs	Two proximity-probe transducer signals
Input Impedance	10 kOhm
Selectable Scale Factors	100, 20 or 10 mV/mil (4, 0.787 or 0.392 V/mm)
Power Consumption	1.5 W nominal
Signal-Conditioning Accuracy	Within +/-0.33% of full scale typical; +/-1% maximum
Recorder Output	User-programmable current or voltage output

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04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

The monitor changes the active measurement region at a defined crossover point. Probe mounting, initial gaps, scale-factor selection and alarm direction must be treated as one coordinated turbine supervisory measurement.

10 Perform the functional check

Use the machine procedure to verify the expected static condition, signal path and operating response. A visual inspection alone is not commissioning evidence.

Acceptance record

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

Which input impedance applies to Bently Nevada 3300/47?

Each proximity-probe signal input is specified at 10 kOhm.

Can Bently Nevada 3300/47 use only the base model for ordering?

No. The complete option code is needed to establish range, transducer input, relay and approval selections.

What outputs are available from Bently Nevada 3300/47?

It provides a configurable recorder output and front-panel buffered transducer outputs.

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05 / HANDOVER

Where can Bently Nevada 3300/47 be installed in a rack?

It uses one rack position, excluding the positions reserved for the power supply and system monitor.

What should be tested after replacing Bently Nevada 3300/47?

Verify both probe signals, crossover behavior, displayed direction, recorder scaling and alert/danger response.

Handover record

Identity	Exact model and installed location
Configuration	Mating items and relevant option fields
Inspection	Mechanical, cable and connector condition
Test	Authorized functional result and date

Related-product boundary

Recommended models are portfolio references. Compare every ordering field before selection.

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Manufacturer evidence

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