Bently Nevada 3300/45

01 / EXACT PRODUCT IDENTITY

Bently Nevada 3300/45 is a dual differential-expansion monitor that accepts two proximity-transducer signals and continuously indicates both magnitude and direction of rotor-to-casing axial movement. Channel B can be disabled when only one measurement location is required.

Ordering identity

Exact Identifier	3300/45
Monitor	Dual differential expansion
Inputs	Two proximity-transducer channels
Rack Family	3300 monitoring system

Evidence-controlled use

Exact item	Installed context	Acceptance
3300/45	Mating component or rack position	Machine-specific functional check

Technical boundary

The supplied reference file is evidence only and must not be linked or uploaded on the product page.

Related 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.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

Bently Nevada 3300/45

02 / DOCUMENTED CHARACTERISTICS

Manufacturer-supported data

Monitor Function	Dual differential expansion
Input Channels	Two proximity-transducer signals
Channel B	May be disabled for single-location use
Input Impedance	10 kohm
Scale Factor Selection	20 mV/mil or 10 mV/mil, jumper selectable
Power Consumption	1.5 W nominal

Use of listed values

Each value belongs to the component or complete system stated in the source. Do not transfer a system rating to an isolated part or a nearby execution.

Related 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.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

Bently Nevada 3300/45

Additional documented data

Recorder Outputs	4-20 mA, 0 to -10 VDC, or 1 to 5 VDC
Buffered Outputs	Front coaxial and rear terminal for each channel
Alarm Setpoints	Alert and Danger per channel
Display	63-segment vertical LCD per channel with center gap scale
Operating Temperature	0 to +65 deg C
Rack Position	Any available monitor position after power supply and system monitor

Installed-system review

Differential expansion is measured between the rotor and machine casing away from the thrust bearing. Probe geometry, scale-factor jumper, zero direction and alarm logic must agree with the actual turbine installation.

Engineering checkpoints

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source

Related 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.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

Steam-turbine differential expansion

Monitor rotor growth relative to the casing during startup and shutdown.

Turbine supervisory instrumentation

Integrate two axial proximity measurements into a 3300 monitoring rack.

Single-point expansion

Disable channel B when the approved machine design uses one location.

Recorder integration

Send configured current or voltage outputs to a recorder or control system.

01 / Precaution

Verify the complete 3300/45 identity and installed rack position.

02 / Precaution

Record both proximity-transducer inputs before disturbing field wiring.

03 / Precaution

Confirm the selected 10 or 20 mV/mil scale factor for each channel.

04 / Precaution

Restore full-scale, upscale direction and zero-position settings.

Related 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.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

Bently Nevada 3300/45

What does Bently Nevada 3300/45 measure?

It measures differential expansion, or rotor axial position relative to the machine casing.

How many channels does Bently Nevada 3300/45 provide?

It provides two continuous differential-expansion channels.

Can channel B be disabled on Bently Nevada 3300/45?

Yes. Channel B can be turned off for a machine requiring one measurement location.

Which transducer signals does Bently Nevada 3300/45 accept?

It accepts two compatible proximity-probe transducer signals.

Release evidence

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

Related 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.

Manufacturer evidence

141507: function and input data p. 1; outputs, alarms and indicators p. 2; environment and ordering p. 3; field wiring p. 4. The supplied reference PDF is used only for data and is not uploaded.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

3300/45