Bently Nevada 3300/16

Installation & Commissioning Guide

Bently Nevada 3300/16 is a dual-channel vibration monitor that continuously indicates channel A and B vibration and provides independent Alert, Danger and gap-alarm functions.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Continuously displays vibration for channel A and channel B.

Feature 2

Provides independent Alert and Danger setpoints for both channels.

Feature 3

Supervises transducer gap with over and under window limits.

Feature 4

Supports channel bypass, First Out indication and configurable relay voting.

VERIFIED DATA SNAPSHOT

Monitor channels	Two vibration channels, A and B
Measured value	Continuous vibration indication
Alarm levels	Alert and Danger for each channel
Gap supervision	Over and under gap window alarm

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Monitor channels

Two vibration channels, A and B

Measured value

Continuous vibration indication

Alarm levels

Alert and Danger for each channel

Gap supervision

Over and under gap window alarm

First Out

Separate Alert and Danger First Out circuits

Relay logic

AND or OR voting according to relay configuration

Recorder outputs

+4 to +20 mA, +1 to +5 Vdc, or 0 to -10 Vdc by option

Transducer selection

Ordering-code option must match the installed Proximitor system

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Bently Nevada 3300/16
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

Installation sequence

CONTROLLED WORK STEPS

01	Record the complete 3300/16 ordering string, rack slot and channel assignments before removal.
02	Inhibit the rack alarms or power down the rack before installing or removing the monitor.
03	Confirm the transducer input option and required supply voltage before reconnecting either channel.
04	Preserve the installed full-scale range, Alert, Danger and gap-window setpoints.
05	Verify the selected AND or OR relay voting arrangement before returning trip outputs to service.
06	Use channel bypass only under the approved maintenance procedure because protection is disabled for that channel.
07	Test both vibration responses, OK limits, gap alarms and relay transitions after installation.
08	Clear stored errors and confirm normal channel A and B indications before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Radial shaft vibration

Monitors two shaft-relative vibration channels from matched proximity-transducer systems.

Dual-bearing supervision

Presents two machine measurement points in one rack monitor position.

Alarm and trip initiation

Uses configured Alert and Danger thresholds with the selected relay voting logic.

Gap-condition monitoring

Detects probe gap outside the programmed over and under window.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which measurement paths are processed by Bently Nevada 3300/16?	The monitor continuously measures and displays two vibration paths identified as channel A and channel B.
How does Bently Nevada 3300/16 supervise probe gap?	It compares each channel gap level with configured over and under window limits and drives the gap Alert response after the specified delay.
What alarm levels can be set on Bently Nevada 3300/16?	Each channel has configurable Alert and Danger vibration setpoints, together with its gap-window limits.
When is the First Out function useful on Bently Nevada 3300/16?	First Out identifies the channel that first entered Alert or Danger after the last rack power-up or reset.

Release record and technical references

CLOSEOUT QUESTIONS

Why must channel bypass be controlled on Bently Nevada 3300/16?	A bypassed channel is taken out of protection service, clears its channel alarms and clamps the vibration indication to zero.
Which transducer setting must match the field system on Bently Nevada 3300/16?	The complete input-option code must agree with the installed Proximitor sensor family and its required sensitivity and supply voltage.
How does trip multiply affect Bently Nevada 3300/16?	The enabled multiplier changes the effective vibration trip level and the proportional test-point output according to the selected option.
What proves correct commissioning of Bently Nevada 3300/16?	Both channels must pass vibration, gap, OK-limit, Alert, Danger, relay and stored-error checks using the approved test method.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 125800-02	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 128031-01	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 128229-01	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Bently Nevada 3300/16
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.