Bently Nevada 3300/16

Complete Product Information

Bently Nevada 3300/16 supervises two vibration channels and presents their measured levels, alarm states and monitor status on one rack module.

WHAT THIS PRODUCT DOES

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 characteristic 1

Continuously displays vibration for channel A and channel B.

Product characteristic 2

Provides independent Alert and Danger setpoints for both channels.

Product characteristic 3

Supervises transducer gap with over and under window limits.

Product characteristic 4

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

PRODUCT-PAGE TECHNICAL 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

IMPORTANT NOTICE

Match the full 3300/16 execution to its transducer, range and relay configuration. Complete both channel tests before removing any bypass or alarm inhibit.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

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

FEATURE INTERPRETATION

Product identity

Continuously displays vibration for channel A and channel B.

System role

Provides independent Alert and Danger setpoints for both channels.

Service context

Supervises transducer gap with over and under window limits.

Return-to-service focus

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

SIGNAL OR CONTROL PATH

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

The monitor processes the selected proximity-transducer signals, drives front-panel indications and provides configured alarm and recorder outputs. Transducer option, full-scale range, relay assembly and agency code must match the installed execution.

PRODUCT-PAGE TECHNICAL 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.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

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.

APPLICATION VERIFICATION MAP

Radial shaft vibration	Confirm the documented system position and the required operating function.
Dual-bearing supervision	Compare the restored connection or control path with the approved record.
Alarm and trip initiation	Check the physical interface and the retained configuration before startup.
Gap-condition monitoring	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

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.
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.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

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.

FREQUENTLY ASKED TECHNICAL 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.

IMPORTANT NOTICE	Record every option and setpoint before removal, then prove both vibration channels, gap windows and configured relay actions before service release.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, configuration control and related models

ADDITIONAL TECHNICAL 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.

CONFIGURATION CONTROL RECORD

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.

RELATED MODELS ON APTERPOWER

Bently Nevada 3300/03	Related product reference. Review the complete ordering string before selection.
Bently Nevada 3300/47	Related product reference. Compare the required interface and system position.
Bently Nevada 330100-50-05	Related product reference. Confirm the execution independently for the intended task.

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