Bently Nevada 3300/25-04-04-04-01-02-01-01

01 Product function and configuration

Exact product role

Bently Nevada 3300/25-04-04-04-01-02-01-01 applies accelerometer input conditioning for acceleration or integrated velocity to absolute housing vibration monitoring, using the exact Channel A 0–20 g pk; Channel B 0–20 g pk scale and the selected interface options.

Technical specification summary

Technical item	Specification
Measurement function	dual-channel casing vibration
Selected channel ranges	Channel A 0–20 g pk; Channel B 0–20 g pk
Input and processing	Single accelerometer input; two acceleration channels
Channel count	2 measurement channels
Alarm relay option	Epoxy-sealed
Safety-barrier option	Internal
Agency approval option	CSA/NRTL/C
Range multiplier	2X
Acceptance method	Independent response check for channels A and B
Output verification	Indication and selected alarm path

Selected characteristics

Uses the selected Channel A 0–20 g pk; Channel B 0–20 g pk measurement range. Range and unit selection	**Accepts Single accelerometer input; two acceleration channels.** Input compatibility
Uses epoxy-sealed alarm relay hardware. Output hardware	**Includes a internal safety-barrier interface.** Interface selection

Configuration notice

Match the complete 3300/25-04-04-04-01-02-01-01 order code, input source and rear connection assembly before installation; then verify each channel through a controlled response test.

Bently Nevada 3300/25-04-04-04-01-02-01-01

02 Technical selections in context

Configured measurement path

Order-code function	Selected configuration
Measurement range	Channel A 0–20 g pk; Channel B 0–20 g pk
Input / processing	Single accelerometer input; two acceleration channels
Alarm relay option	Epoxy-sealed
Safety-barrier option	Internal
Approval selection	CSA/NRTL/C
Range multiplier	2X

Signal-chain interpretation

The transducer, field wiring, monitor input, selected span and output path form one chain. Confirm them together when diagnosing scale, polarity, alarm or recorder discrepancies.

Technical decisions

Range suitability
Confirm Channel A 0–20 g pk; Channel B 0–20 g pk covers the intended machine behavior.

Input match
Use Single accelerometer input; two acceleration channels and preserve its sensitivity.

Output match
Apply Epoxy-sealed relay hardware as selected.

Interface match
Apply Internal barrier arrangement and 2X multiplication.

Do not infer unspecified data

Only exact-model technical selections are stated. Installation-specific setpoints, channel destinations and machine limits must be taken from the controlled site configuration.

Bently Nevada 3300/25-04-04-04-01-02-01-01

03 Applications and commissioning logic

Application areas

Absolute Housing Vibration Monitoring
Apply the selected Channel A 0–20 g pk; Channel B 0–20 g pk span to the intended machine measurement.

Two-channel condition monitoring
Keep channel identity from the field transducer through indication and alarms.

Controlled maintenance testing
Inject or apply a known change and compare each response stage.

Protection-system integration
Verify the selected relay and barrier interface with the receiving circuit.

Commissioning logic

01	Confirm model identity and rear interface.
02	Check input family and selected range.
03	Prove channel assignment with a controlled change.
04	Test indication, recorder output and alarm behavior separately.
05	Restore normal configuration and record the result.

Selected checks

Technical check	Required value
Alarm relay option	Epoxy-sealed
Safety-barrier option	Internal
Agency approval option	CSA/NRTL/C
Range multiplier	2X
Acceptance method	Independent response check for channels A and B
Output verification	Indication and selected alarm path

Machine application

3300/25 Dual Accelerometer Monitor is used for 25-family monitoring functions represented by the selected input and range. Apply site alarm limits only after the complete response is confirmed.

Bently Nevada 3300/25-04-04-04-01-02-01-01

04 Model-specific technical questions

Questions 1–4

How should the Channel A 0–20 g pk; Channel B 0–20 g pk scale be validated on 3300/25-04-04-04-01-02-01-01?
The selected measurement span is Channel A 0–20 g pk; Channel B 0–20 g pk. Alarm and recorder scaling must be checked against that span rather than copied from a different range option.

How does the Single accelerometer input; two acceleration channels selection affect 3300/25-04-04-04-01-02-01-01 calibration?
This configuration uses Single accelerometer input; two acceleration channels. Preserve the transducer family, sensitivity and signal polarity as one measurement chain.

Why must 3300/25-04-04-04-01-02-01-01 relay contact logic be checked after installation?
The selected alarm output uses epoxy-sealed relay hardware. Contact logic, energization and downstream wiring still require a functional test.

Can 3300/25-04-04-04-01-02-01-01 use the rear interface from an unbarriered variant?
The selected interface uses internal safety barriers. Match the field circuit and grounding arrangement to that interface.

Selected hardware context

Item	Configuration
Measurement range	Channel A 0–20 g pk; Channel B 0–20 g pk
Input / processing	Single accelerometer input; two acceleration channels
Alarm relay option	Epoxy-sealed
Safety-barrier option	Internal
Approval selection	CSA/NRTL/C
Range multiplier	2X

Question scope

The questions focus on the range, input and interface options in this exact model. They are not generic interchangeability claims for every monitor in the same family.

Bently Nevada 3300/25-04-04-04-01-02-01-01

05 Configuration, testing and related products

Questions 5–8

Which assembly evidence accompanies the CSA/NRTL/C selection in 3300/25-04-04-04-01-02-01-01?
The complete order code selects CSA/NRTL/C. Retain the marked assembly and its installation conditions.

How does the 2X multiplier change the usable span of 3300/25-04-04-04-01-02-01-01?
The 2X multiplier expands the usable displayed range from the base scale. Confirm the multiplier state before comparing setpoints or recorder values.

How can a transducer fault be separated from a real alarm on 3300/25-04-04-04-01-02-01-01?
Apply a controlled input change to one identified channel at a time, then compare the local indication, buffered or recorder signal, alarm state and return to normal.

Which configuration record should accompany an installed 3300/25-04-04-04-01-02-01-01?
Record the complete model, Channel A 0–20 g pk; Channel B 0–20 g pk scale, Single accelerometer input; two acceleration channels input, relay and barrier choices, channel assignments, setpoints, delays and the observed acceptance results.

Related Bently Nevada products

Bently Nevada RS900106-05-30-05-02-00

Bently Nevada 330104-15-23-10-02-00

Bently Nevada 330106-00-04-10-02-00

Bently Nevada 21747-075-00

Selection caution

Related links support product comparison only. Confirm input family, sensitivity, range, relay hardware, barriers and approvals for every alternative before selection.

Release criterion

Return the channel to service only after its measured response, output behavior and protection-state restoration agree with the approved machine configuration.