Bently Nevada 3300/16-02-05-02-00-00-02

01 Product function and configuration

Exact product role

Bently Nevada 3300/16-02-05-02-00-00-02 applies two independent proximity-system channels with vibration and average shaft-position indication to orthogonal shaft vibration and gap monitoring, using the exact 0–5 mils pp scale and the selected interface options.

Technical specification summary

Technical item	Specification
Measurement function	XY or dual radial vibration with gap indication
Selected range	0–5 mils pp
Input system	3300 XL NSv or RAM, 200 mV/mil
Signal sensitivity	200 mV/mil where specified by the selected input
Alarm relay option	Hermetically sealed
Safety-barrier option	None
Agency approval option	None
Range multiplier	3X
Channel test method	Controlled input change, one channel at a time
Configuration identity	Complete order code required

Selected characteristics

Uses the selected 0–5 mils pp measurement range.
Range and unit selection

Accepts 3300 XL NSv or RAM, 200 mV/mil.
Input compatibility

Uses hermetically sealed alarm relay hardware.
Output hardware

Uses 3X range multiplication.
Interface selection

Configuration notice

Match the complete 3300/16-02-05-02-00-00-02 order code, input source and rear connection assembly before installation; then verify each channel through a controlled response test.

Bently Nevada 3300/16-02-05-02-00-00-02

02 Technical selections in context

Configured measurement path

Order-code function	Selected configuration
Measurement range	0–5 mils pp
Input / processing	3300 XL NSv or RAM, 200 mV/mil
Alarm relay option	Hermetically sealed
Safety-barrier option	None
Approval selection	None
Range multiplier	3X

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 0–5 mils pp covers the intended machine behavior.

Input match
Use 3300 XL NSv or RAM, 200 mV/mil and preserve its sensitivity.

Output match
Apply Hermetically sealed relay hardware as selected.

Interface match
Apply None barrier arrangement and 3X 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 3300/16-02-05-02-00-00-02

03 Applications and commissioning logic

Application areas

Orthogonal Shaft Vibration And Gap Monitoring Apply the selected 0–5 mils pp 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	Hermetically sealed
Safety-barrier option	None
Agency approval option	None
Range multiplier	3X
Channel test method	Controlled input change, one channel at a time
Configuration identity	Complete order code required

Machine application

3300/16 XY/GAP Dual Vibration Monitor is used for 16-family monitoring functions represented by the selected input and range. Apply site alarm limits only after the complete response is confirmed.

Bently Nevada 3300/16-02-05-02-00-00-02

04 Model-specific technical questions

Questions 1–4

Why must 3300/16-02-05-02-00-00-02 retain its 0–5 mils pp measurement range?
The selected measurement span is 0–5 mils pp. Alarm and recorder scaling must be checked against that span rather than copied from a different range option.

Why can the wrong transducer make 3300/16-02-05-02-00-00-02 display a plausible value?
This configuration uses 3300 XL NSv or RAM, 200 mV/mil. Preserve the transducer family, sensitivity and signal polarity as one measurement chain.

How is the selected hermetically sealed relay hardware preserved when replacing 3300/16-02-05-02-00-00-02?
The selected alarm output uses hermetically sealed relay hardware. Contact logic, energization and downstream wiring still require a functional test.

What does the unbarriered input selection require on 3300/16-02-05-02-00-00-02?
No safety-barrier option is selected. Do not move field conductors from a barrier-equipped circuit without an engineering review.

Selected hardware context

Item	Configuration
Measurement range	0–5 mils pp
Input / processing	3300 XL NSv or RAM, 200 mV/mil
Alarm relay option	Hermetically sealed
Safety-barrier option	None
Approval selection	None
Range multiplier	3X

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 3300/16-02-05-02-00-00-02

05 Configuration, testing and related products

Questions 5–8

What approval assumption must be avoided with 3300/16-02-05-02-00-00-02?
No agency-approval option is selected in this order code. Do not infer an approval from another unit in the same monitor family.

Why does the 3X selection matter to 3300/16-02-05-02-00-00-02 alarm setpoints?
The 3X multiplier expands the usable displayed range from the base scale. Confirm the multiplier state before comparing setpoints or recorder values.

How should technicians prove channel identity on 3300/16-02-05-02-00-00-02?
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 acceptance results should be retained for 3300/16-02-05-02-00-00-02?
Record the complete model, 0–5 mils pp scale, 3300 XL NSv or RAM, 200 mV/mil input, relay and barrier choices, channel assignments, setpoints, delays and the observed acceptance results.

Related Bently Nevada products

Bently Nevada 330780-X1-CN

Bently Nevada 900800XL-090-03-01

Bently Nevada 330105-02-12-10-12-05

Bently Nevada 330703-000-040-10-11-00

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.