# Bently Nevada 3300/16-02-01-00-01-00-00

## 01 Exact-model technical scope

## Configuration represented by this reference

Bently Nevada 3300/16-02-01-00-01-00-00 is a 3300/16 XY/GAP Dual Vibration Monitor configured for 0–5 mils pp with 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil; its selected hardware provides no alarm relay outputs, a standard unbarriered input interface, CSA/NRTL/C approval selection, the base displayed range. This reference treats the complete order code as one configuration; values from another range, input, relay or barrier variant are not transferred into this selection.

## Selected technical configuration

| Technical item | Selected value |
|---|---|
| Measurement function | XY or dual radial vibration with gap indication |
| Selected range | 0–5 mils pp |
| Input system | 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil |
| Signal sensitivity | 200 mV/mil where specified by the selected input |
| Alarm relay option | None |
| Safety-barrier option | None |
| Agency approval option | CSA/NRTL/C |
| Range multiplier | None |

## Measurement boundaries

**3300/16 XY/GAP Dual Vibration Monitor**
The monitor family defines the processing architecture.

**Range**
0–5 mils pp is the selected display and alarm basis.

**Input**
3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil is the required source configuration.

**Outputs**
None relay selection and the recorder or indication path must be assessed separately.

## Use the complete code

A family number identifies the monitor function, but the remaining code groups determine the usable range and interfaces. Match the complete marking before changing a monitor, rear interface or field transducer.

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## 02 Signal path and selected options

## Order-code selections

| Selection | Configured choice |
|---|---|
| Measurement range | 0–5 mils pp |
| Input / processing | 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil |
| Alarm relay option | None |
| Safety-barrier option | None |
| Approval selection | CSA/NRTL/C |
| Range multiplier | None |

## Range and input form one conversion

The selected range is meaningful only when the connected input system and sensitivity agree with the monitor configuration. A stable value is not proof of correct scaling; apply a controlled signal change and compare the expected and displayed response.

## Interface review

**No relay option**
Do not assume local alarm contacts are fitted.

**Unbarriered path**
Review the full loop before adding a barrier.

**Approval marking**
CSA/NRTL/C is selected; verify the assembly marking.

**Base range**
The stated range applies without multiplication.

## Check one channel at a time

Identify the source, monitor channel, local indication, recorder destination and alarm path before applying a test. A one-channel-at-a-time sequence exposes crossed wiring without relying on labels alone.

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## 03 Measurement use and application limits

## Common applications

**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.

## Technical evaluation sequence

| | |
|---|---|
| **01** | Confirm the exact model and selected range. |
| **02** | Trace the intended transducer signal to its monitor input. |
| **03** | Apply a known change within the selected measurement span. |
| **04** | Compare local indication and the selected output path. |
| **05** | Restore the recorded settings and normal machine-protection state. |

## Acceptance observations

| Configured item | Acceptance point |
|---|---|
| 0–5 mils pp | Check the active span and units. |
| 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil | Confirm source type, sensitivity and polarity. |
| None | Verify relay presence and contact behavior. |
| None | Confirm the corresponding field interface. |
| None | Include the multiplier state in setpoint calculations. |

## Application boundary

The complete channel must preserve the transducer source, displayed range, relay interface and barrier selection together. A monitor from the same family can produce a plausible indication while applying a different scale or output arrangement.

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## 04 Technical questions for this exact model

## Questions 1–4

**Which applied values should be used to check the 0–5 mils pp response of 3300/16-02-01-00-01-00-00?**
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.

**Which transducer signal is compatible with 3300/16-02-01-00-01-00-00?**
This configuration uses 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil. Preserve the transducer family, sensitivity and signal polarity as one measurement chain.

**How are alarms handled when 3300/16-02-01-00-01-00-00 has no relay option?**
No alarm relay hardware is selected; use the measurement and recorder interfaces without assuming local relay contacts.

**Why should 3300/16-02-01-00-01-00-00 not be confused with an internally barriered variant?**
No safety-barrier option is selected. Do not move field conductors from a barrier-equipped circuit without an engineering review.

## Core configuration values

| Item | Value |
|---|---|
| Measurement range | 0–5 mils pp |
| Input / processing | 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil |
| Alarm relay option | None |
| Safety-barrier option | None |

## Interpret answers as a complete path

Each answer applies to this exact order code. Compare the selected transducer, monitor scale and physical machine condition at the same stable test point instead of treating any single reading as sufficient evidence.

## Retain channel identity

Record which field source, display, recorder destination and alarm circuit belong together before any conductor is moved.

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## 05 Output, replacement and release questions

## Questions 5–8

**Why is the complete order code important to the CSA/NRTL/C status of 3300/16-02-01-00-01-00-00?**
The complete order code selects CSA/NRTL/C. Retain the marked assembly and its installation conditions.

**Which displayed span applies to 3300/16-02-01-00-01-00-00 without a range multiplier?**
No range multiplier is selected, so the stated scale is the active base range. A multiplied setting from another monitor must not be transferred.

**Which controlled-response test best confirms both channels of 3300/16-02-01-00-01-00-00?**
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.

**What baseline readings make later troubleshooting of 3300/16-02-01-00-01-00-00 useful?**
Record the complete model, 0–5 mils pp scale, 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil input, relay and barrier choices, channel assignments, setpoints, delays and the observed acceptance results.

## Related Bently Nevada product references

**Bently Nevada 1900-27-02-00**

**Bently Nevada 3701-60A**

## Replacement boundary

Related monitors and transducers may use different ranges, sensitivities, power requirements, barrier arrangements or relay hardware. Review their complete codes independently before using them as replacements.

## Final technical record

Use a controlled input condition to verify the 0–5 mils pp scale, 3300/3300 XL 8 mm or 7200 5/8 in, 200 mV/mil conversion, channel identity and selected output behavior. Restore the recorded alarm, delay, reset, multiplier and bypass states only after the complete path responds correctly.