

APTER POWER

COMPLETE PRODUCT INFORMATION

3300/16-15-01-03-00-00-02

3300/16 XY/Gap Dual Vibration Monitor

Bently Nevada 3300/16-15-01-03-00-00-02 is a 3300/16 XY/Gap dual vibration monitor configured for two proximity-transducer channels, 0-500 micrometre peak-to-peak range, quad relays and 3X Trip

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 Monitoring

PART

3300/16-15-01-03-00-00-02

DOCUMENT STATUS

Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Bently Nevada 3300/16-15-01-03-00-00-02 provides two-channel radial-vibration and average-shaft-position monitoring with quad alarm relays in a documented Bently Nevada 3300 Monitoring System installation.



3300/16 XY/Gap Dual Vibration Monitor



2 independent proximity-transducer channels



Radial vibration and average shaft position (gap)



Two-channel radial-vibration and average-shaft-position monitoring with quad

RELATED APTER POWER PAGES		
1 Bently Nevada 330851-02-000-060-10-00-00	2 Bently Nevada 330851-04-000-015-10-01-05	3 Bently Nevada 330851-04-000-020-10-01-00
4 Bently Nevada 3500-42M-176449-02	5 Bently Nevada 3500-45-176449-04	6 Bently Nevada 330101-00-08-05-02-05
7 Bently Nevada 330103-00-04-10-02-00	8 Bently Nevada 330103-00-12-10-01-00	9 Bently Nevada 330104-00-04-10-02-05

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented rack position, mating hardware, wiring and approved configuration. Commissioning preserves that architecture and verifies the protection function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Monitor type	3300/16 XY/Gap dual vibration monitor	Safety barrier option	00: None
Measurement channels	2 independent proximity-transducer channels	Trip Multiply option	02: 3X
Measured variables	Radial vibration and average shaft position (gap)	Input impedance	10 kilohm
Full-scale range option	15: 0-500 micrometre peak-to-peak	Frequency response choices	4-4000 Hz or 1-600 Hz, nominal -3 dB
Transducer input option	01: 3300/3300 XL 8 mm or 7200 5/8 mm, 200 mV/mil	Recorder output choices	+4 to +20 mA, 0 to -10 Vdc, or +1 to +5 Vdc
Alarm relay option	03: Quad relays, epoxy-sealed	Power consumption	2 W nominal
Agency approval option	00: Not required	Rack position	One slot except positions 1 and 2

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TECHNICAL NOTE

Install 3300/16-15-01-03-00-00-02 only in the documented Bently Nevada 3300 Monitoring System position. Preserve the exact mating interfaces and option settings, then verify diagnostics and two-channel radial-vibration and average-shaft-position monitoring with quad alarm relays under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Matched 3300/3500 rack service

Restores two-channel radial-vibration and average-shaft-position monitoring with quad alarm

Exact-execution replacement

Uses the complete 3300/16-15-01-03-00-00-02 identity instead of a neighboring option or revision.

Machinery-protection refurbishment

Preserves the installed host position, connectors, alarm logic and approved configuration.

Controlled recommissioning

Confirms hardware identity, diagnostics and the affected protection function before return to operation.

PRODUCT PRECAUTIONS

1

Confirm the complete 3300/16-15-01-03-00-00-02 marking and the documented 3300/16 XY/Gap Dual

2

Place the machinery-protection system and connected process in the approved maintenance state.

3

Isolate rack power and field circuits, prove the safe state and apply ESD controls.

4

Record the rack position, mating hardware, connectors, alarm wiring and as-found configuration.

5

Verify every option and limit against the exact manufacturer ordering or spare-parts record.

6

Restore grounding, shielding, wiring, relay logic and the approved monitor configuration.

7

Energize under control and review rack, channel and alarm diagnostics.

8

Complete a controlled functional test of two-channel radial-vibration and average-shaft-position monitoring

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ENGINEER FAQ

Q1
3300/16-15-01-03-00-00-02: Which measurements does the configured 3300/16 monitor provide?

It continuously measures two independent radial-vibration channels and their average shaft position (gap) from proximity-transducer inputs.

Q2
What does ordering option 15 set on 3300/16-15-01-03-00-00-02?

Option 15 selects a 0-500 micrometre peak-to-peak full-scale vibration range.

Q3
3300/16-15-01-03-00-00-02: Which proximity systems match transducer option 01?

Option 01 is for 3300 or 3300 XL 8 mm, or 7200 5 mm and 8 mm Proximitor Sensor systems with 200 mV/mil sensitivity.

Q4
3300/16-15-01-03-00-00-02: How is the relay hardware configured for this catalog number?

Relay option 03 specifies the quad-relay, epoxy-sealed execution; AND voting must be implemented externally by wiring contacts in series.

Q5
3300/16-15-01-03-00-00-02: Does this execution include an approval or safety barrier option?

No. The two 00 fields specify no ordered agency approval and no safety barrier.

Q6
3300/16-15-01-03-00-00-02: What Trip Multiply setting is supplied by option 02?

Option 02 selects 3X Trip Multiply, and the bypass LEDs flash while Trip Multiply is active.

Q7
3300/16-15-01-03-00-00-02: Which frequency-response selections are available during commissioning?

The monitor can be programmed for 4-4000 Hz or 1-600 Hz nominal -3 dB response; the low-frequency option needs care during rapid starts and coastdowns.

Q8
3300/16-15-01-03-00-00-02: Which recorder outputs must be matched before replacing the monitor?

Verify the field-programmed output before replacement because the monitor supports +4 to +20 mA, 0 to -10 Vdc, or +1 to +5 Vdc recorder output.

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SOURCE

3300/16 XY/GAP Dual Vibration Monitor, Specifications and Ordering Information 141498-01
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