

81546-01 ASSY79748-01

3300/16 Dual Hermetic Relay Module Assembly

Bently Nevada 81546-01 ASSY79748-01 is a dual-hermetic spare relay module assembly for the 3300/16 XY/Gap Dual Vibration Monitor. It provides the matched alert and danger relay interface for

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 Monitoring

PART

81546-01 ASSY79748-01

DOCUMENT STATUS

Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Bently Nevada 81546-01 ASSY79748-01 provides dual-hermetic alert and danger relay interfacing for a matched 3300/16 XY/Gap monitor in a documented Bently Nevada 3300 Monitoring System installation.



3300/16 Dual Hermetic Relay Module Assembly



ASSY79748-01



Dual hermetically sealed relays



Dual-hermetic alert and danger relay interfacing for a matched 3300/16 xy/gap monitor

RELATED APTER POWER PAGES		
1 Bently Nevada 330908-21-35-10-02-00	2 Bently Nevada 330903-00-07-10-01-00	3 Bently Nevada 330162-03-45-45-05-05-94-01-02
4 Bently Nevada 330101-00-60-90-01-05	5 Bently Nevada 330104-11-25-10-02-00	6 Bently Nevada 330102-04-25-10-02-00
7 Bently Nevada 330910-00-07-05-02-05	8 Bently Nevada 330102-00-20-10-02-00	9 Bently Nevada 330101-00-60-10-02-05

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor 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
Spare relay module	81546-01	Danger relay mode	Normally de-energized or normally energized
Assembly marking	ASSY79748-01	Relay voting	OR or AND; field-programmable
Relay construction	Dual hermetically sealed relays	Alert reset	Latching or nonlatching
Parent monitor	3300/16 XY/Gap Dual Vibration Monitor	Danger reset	Latching or nonlatching
ATEX spare option	81546-02	Alarm time delay	0.1, 1, 3, or 6 seconds
Alert relay mode	Normally de-energized or normally energized	Installation context	Matched rear relay-module position of the configured

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TECHNICAL NOTE

Install 81546-01 ASSY79748-01 only in the documented Bently Nevada 3300 Monitoring System position. Preserve the exact mating interfaces and option settings, then verify diagnostics and dual-hermetic alert and danger relay interfacing for a matched 3300/16 XY/Gap monitor under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Matched 3300/3500 rack service

Restores dual-hermetic alert and danger relay interfacing for a matched 3300/16 XY/Gap monitor in

Exact-execution replacement

Uses the complete 81546-01 ASSY79748-01 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 81546-01 ASSY79748-01 marking and the documented 3300/16 Dual Hermetic

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 dual-hermetic alert and danger relay interfacing for a matched

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ENGINEER FAQ

Q1

81546-01 ASSY79748-01: What relay construction is identified by spare 81546-01?

The 3300/16 ordering table identifies 81546-01 as the dual-hermetic relay spare module.

Q2

81546-01 ASSY79748-01: Which monitor accepts the 81546-01 relay assembly?

It is listed for the 3300/16 XY/Gap Dual Vibration Monitor and must match that monitor's relay-module position and alarm wiring.

Q3

81546-01 ASSY79748-01: Which part number is ordered for the ATEX-approved spare?

The ordering table gives option 02 in parentheses, so the ATEX spare is 81546-02 rather than 81546-01.

Q4

81546-01 ASSY79748-01: Can alert and danger relay coils be configured normally energized?

Yes. Alert and Danger relay modes are individually field-programmable as normally de-energized or normally energized.

Q5

81546-01 ASSY79748-01: Which voting modes are available with the dual-hermetic module?

The monitor supports OR or AND voting for relay drive; verify the installed jumper configuration before replacement.

Q6

81546-01 ASSY79748-01: Which reset behaviors must be preserved?

Both Alert and Danger reset functions can be latching or nonlatching, so the as-found selections must be recorded and restored.

Q7

81546-01 ASSY79748-01: What alarm delay selections can affect acceptance testing?

The monitor provides 0.1, 1, 3, or 6 second alarm-delay selections; the controlled test must verify the installed delay.

Q8

81546-01 ASSY79748-01: What must be checked after installing ASSY79748-01?

Confirm the parent 3300/16 is OK, then test the documented Alert and Danger relay outputs, voting logic, reset behavior and recorder response without bypassing machinery-protection interlocks.

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SOURCE

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