

Bently Nevada 3500/32M 125720-01

Four-channel relay module component

Product identity and system role

The Bently Nevada 3500/32M is a full-height four-channel relay module whose programmable outputs use monitor alarm and status logic for machinery-protection annunciation and interlocking.

01 / FUNCTION

Provides four independent SPDT relay outputs in one full-height module.

02 / FUNCTION

Combines Alert, Danger, Not-OK and Programmable Logic states with AND/OR voting.

03 / FUNCTION

Uses epoxy-sealed relays with arc suppression for controlled switching.

04 / FUNCTION

Supports documented standard-system and safety/hazardous-area output limits.

IDENTITY FIELD	VERIFIED VALUE
Exact spare role	Output module with internal termination; repair use only
Relay outputs	4 independent SPDT outputs
Logic	Programmable independent voting with AND/OR combinations
Logic inputs	Alert, Danger, Not-OK and Programmable Logic states

Official technical parameters

Bently Nevada 3500/32M 125720-01 / manufacturer-published values

PARAMETER	OFFICIAL VALUE
Exact spare role	Output module with internal termination; repair use only
Relay outputs	4 independent SPDT outputs
Logic	Programmable independent voting with AND/OR combinations
Logic inputs	Alert, Danger, Not-OK and Programmable Logic states
Power consumption	5.8 W typical
Relay construction	Epoxy-sealed; 250 Vrms arc suppressor
Standard DC rating	2 A at 0-30 Vdc; 0.75 A at 48 Vdc; 0.2 A at 125 Vdc
Standard AC rating	2 A maximum; 250 Vac maximum; 450 VA maximum
Safety/hazardous rating	30 Vac/Vdc maximum; 2 A maximum
Published contact life	100,000 cycles at 5 A, 24 Vdc or 240 Vac reference condition
Operating temperature	-30 to +65 degrees C
Storage temperature	-40 to +85 degrees C
Relative humidity	95%, non-condensing
Rack space	One full-height front slot and one corresponding rear slot

Official evidence boundary

Official evidence: 3500/32M 4-Channel Relay Module Datasheet, 141533 Rev. W. Technical statements in this document are limited to that manufacturer publication and the exact ordering identity shown.

Applications and engineering checks

Bently Nevada 3500/32M 125720-01

Alarm annunciation

Drive a documented annunciator or interface from independent rack alarm logic.

Protection interlock

Combine approved Alert, Danger and channel-status states in a programmed relay expression.

Equipment permissive

Use relay voting to provide an engineered machine permissive within the stated contact envelope.

Shutdown interface

Transfer a verified protection decision to the plant shutdown circuit through documented isolation.

01 / PRECAUTION

Verify whether the exact spare is a control module or an output module before replacement.

02 / PRECAUTION

Confirm the installed system uses standard or safety/hazardous relay ratings before connecting the load.

03 / PRECAUTION

De-energize the external relay circuit and verify isolation before removing either front or rear module.

04 / PRECAUTION

Restore each output's normally energized or de-energized programming from the approved configuration.

05 / PRECAUTION

Check AND/OR voting logic against the cause-and-effect record rather than copying neighboring channels.

06 / PRECAUTION

Keep switching voltage, current and VA inside the published envelope, including inrush conditions.

07 / PRECAUTION

Prove each relay using a controlled input state and observe both rack indication and external circuit response.

08 / PRECAUTION

Record final relay state, logic expression, contact path and alarm/shutdown acceptance result.

Model-specific engineering FAQ

Eight evidence-mapped decisions

What does the repair-only designation mean when installing 3500/32M 125720-01?

Use the output module only in the documented 3500/32M relay assembly and retain the matching control module and approved repair configuration.

How many external switching points are associated with 3500/32M 125720-01?

The complete 3500/32M assembly provides four independent SPDT relay outputs.

Which contact ratings govern a standard-system load connected through 3500/32M 125720-01?

Check the actual DC or AC load against the published voltage, current and 450 VA limits before reconnection.

Why should inrush current be reviewed for 3500/32M 125720-01?

The listed steady-state contact limits and life reference do not remove the need to keep switching inrush within the relay envelope.

How is relay life evaluated after replacing 3500/32M 125720-01?

Use the published 100,000-cycle reference condition together with the real load duty and maintenance history.

What rear-slot check belongs in the work plan for 3500/32M 125720-01?

Verify the exact output-module identity, rear-slot connector and field terminals before seating the front control module.

Which environmental limits must remain valid for 3500/32M 125720-01?

Maintain the -30 to +65 degrees C operating range, -40 to +85 degrees C storage range and 95% non-condensing humidity limit.

What proves successful repair service with 3500/32M 125720-01?

Exercise all four outputs under controlled logic states and record contact state, external response and final cause-and-effect acceptance.

EVIDENCE MAP A

FAQ 01 — pp. 7-8

FAQ 03 — pp. 3-5

FAQ 05 — pp. 4-5

FAQ 07 — pp. 5-6

EVIDENCE MAP B

FAQ 02 — pp. 1-2

FAQ 04 — pp. 3-5

FAQ 06 — pp. 7-8

FAQ 08 — pp. 1-8

Related products and contact

Verified ApterPower navigation links; not approved substitutes

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 3500-42M-SIL2-09-01	Bently Nevada 3500-42M-SIL2-09-01
02	Bently Nevada 3500-15-129486-01	Bently Nevada 3500-15-129486-01
03	Bently Nevada 130768-01	Bently Nevada 130768-01
04	Bently Nevada 4300111	Bently Nevada 4300111
05	Bently Nevada 125565-01	Bently Nevada 125565-01
06	Bently Nevada 125388-01	Bently Nevada 125388-01

Navigation boundary

These links provide nearby catalogue references only. Confirm the complete machine, rack, I/O, transducer and ordering-code requirements before selecting any alternate article.

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