

Bently Nevada 3500/32M 125720-02

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 for hazardous-area and functional-safety systems
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 125720-02 / manufacturer-published values

PARAMETER	OFFICIAL VALUE
Exact spare role	Output module for hazardous-area and functional-safety systems
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 125720-02

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

Why is 3500/32M 125720-02 reserved for hazardous-area and functional-safety relay service?

125720-02 is the documented output module variant for those systems, so its identity and restricted contact envelope must be preserved.

What reduced voltage boundary applies to circuits switched by 3500/32M 125720-02?

For the safety/hazardous configuration, keep the switched circuit at or below 30 Vac/Vdc and 2 A.

How should normally energized logic be restored around 3500/32M 125720-02?

Recover the approved relay logic and fail-state strategy from the safety or hazardous-area configuration; do not infer it from present contact state.

Which rack conditions may command the output paired with 3500/32M 125720-02?

The 3500/32M logic can combine Alert, Danger, Not-OK and Programmable Logic states using AND/OR expressions.

What does the 250 Vrms suppressor specification imply for 3500/32M 125720-02?

It identifies the installed arc-suppression component; external circuit design must still comply with the lower safety/hazardous contact rating.

How is the 5.8 W module load relevant when replacing 3500/32M 125720-02?

Confirm the completed relay assembly and rack power budget remain consistent with the documented 5.8 W typical consumption.

What inspection should precede insertion of 3500/32M 125720-02?

Inspect the rear connector, field wiring, channel labels and safety/hazardous circuit isolation before seating the output module.

Which acceptance evidence is needed for 3500/32M 125720-02 in a safety-related circuit?

Retain the exact spare identity, programmed logic, de-energized test state, external circuit response and authorized proof-test result.

EVIDENCE MAP A

FAQ 01 — pp. 4, 7-8

FAQ 03 — pp. 1-2

FAQ 05 — pp. 3-5

FAQ 07 — pp. 4, 7-8

EVIDENCE MAP B

FAQ 02 — pp. 4-5

FAQ 04 — pp. 1-2

FAQ 06 — p. 3

FAQ 08 — pp. 1-8

Related products and contact

Verified ApterPower navigation links; not approved substitutes

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 3500-50-133388-02	Bently Nevada 3500-50-133388-02
02	Bently Nevada 3500-72M-176449-08	Bently Nevada 3500-72M-176449-08
03	Bently Nevada 9200-06-01-11-04	Bently Nevada 9200-06-01-11-04
04	Bently Nevada 3500-94	Bently Nevada 3500-94
05	Bently Nevada 3500-45-176449-04	Bently Nevada 3500-45-176449-04
06	Bently Nevada 3500-93-135785-01	Bently Nevada 3500-93-135785-01

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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