

Bently Nevada 3500/32M 125720-01

Four-channel relay module component

Overview

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.

PUBLIC PRODUCT FIELD	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

Technical parameter dashboard

Bently Nevada 3500/32M 125720-01

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

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.

Common applications and Product Precautions

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 / CHECK

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

02 / CHECK

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

03 / CHECK

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

04 / CHECK

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

05 / CHECK

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

06 / CHECK

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

07 / CHECK

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

08 / CHECK

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

Engineering FAQ

Eight exact-model answers with official evidence

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.

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.

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.

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.

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

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

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.

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.

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.

Related products and contact

Catalogue navigation separate from technical evidence

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

Compatibility notice

A related ApterPower page is not an approved substitute. Verify the exact manufacturer ordering code, installed interfaces and configuration before procurement or maintenance release.

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