Bently Nevada 125720-02

Installation & Commissioning Guide

Bently Nevada 125720-02 is the spare 4-channel relay output module for hazardous-area and functional-safety 3500/32M systems.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides four SPDT relay output channels.

Feature 2

Supports the hazardous-area and functional-safety hardware execution.

Feature 3

Receives Alarm Drive Logic from the associated relay control module.

Feature 4

Allows normally energized or normally de-energized channel operation as configured.

VERIFIED DATA SNAPSHOT

Associated module	3500/32M 4-channel relay module
Spare role	Relay output module
System class	Hazardous-area and functional-safety systems
Relay channels	Four

SYSTEM RELATIONSHIP

Input condition → **Module logic** → **Relay contact** → **Field circuit**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Associated module

3500/32M 4-channel relay module

Spare role

Relay output module

System class

Hazardous-area and functional-safety systems

Relay channels

Four

Relay type

Single-pole, double-throw

Drive logic

Configured by the associated 3500/32M control module

Voltage rule

Use restricted ratings for hazardous-area or functional-safety systems

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Bently Nevada 125720-02
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

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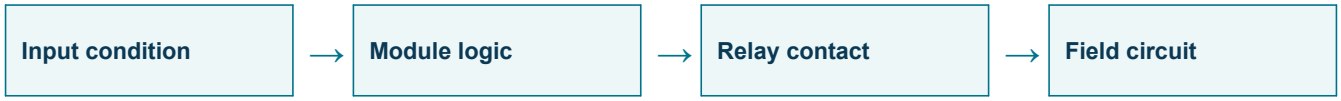
Installation sequence

CONTROLLED WORK STEPS

01	Confirm the rack drawing calls for 125720-02 before replacing the relay output board.
02	Isolate every field voltage and verify zero energy at the relay terminals.
03	Keep hazardous-area and functional-safety voltage restrictions with the replacement module.
04	Label common, normally-open and normally-closed conductors before disconnection.
05	Inspect connector headers and the associated control module for damage.
06	Restore each channel's energized/de-energized selection and Alarm Drive Logic.
07	Perform a controlled relay pickup and dropout test on all four channels.
08	Record field-circuit response, fail-safe state and proof-test evidence before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Alarm annunciation

Switches configured Alert, Danger or Not-OK logic to external circuits.

Protective trip interface

Provides controlled relay contacts for machinery protection logic.

Functional-safety output

Uses the restricted voltage execution required by the certified system.

Hazardous-area rack service

Replaces the output board without changing the validated relay logic.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which 3500 module family accepts 125720-02?	It is the spare relay output module for the 3500/32M 4-channel relay module.
How many relay channels are provided by 125720-02?	It provides four output channels.
Which system classes specifically use 125720-02?	It is designated for hazardous-area and functional-safety systems.
Why are standard-system voltage ratings not automatically valid for 125720-02?	Hazardous-area and functional-safety certificates impose restricted voltage limits.

Release record and technical references

CLOSEOUT QUESTIONS

Where is relay voting logic created for 125720-02?	The associated 3500/32M control module executes the configured AND/OR Alarm Drive Logic.
Which contact states must be recorded before changing 125720-02?	Record common, normally-open and normally-closed wiring for every channel.
How should the fail-safe choice be confirmed on 125720-02?	Verify the normally energized or normally de-energized selection against the approved cause-and-effect record.
What final proof test is required for 125720-02?	Drive every channel through pickup and dropout and verify the connected alarm or trip circuit response.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 3500/05-01-02-00-00	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 3500/05-01-02-00-00-01	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 3500/05-01-02-01-00-00	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Bently Nevada 125720-02
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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