

125720-01

Four-Channel Relay Output Module

Bently Nevada 125720-01 is the four-channel relay output module used with a 3500/32M relay control module. It exposes four programmable SPDT contacts for machinery alarm and shutdown logic.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500/32M Relay System

PART

125720-01

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Bently Nevada 125720-01 is the four-channel relay output module used with a 3500/32M relay control module. It exposes four programmable SPDT contacts for machinery alarm and shutdown logic.

- 1

Provides four independent SPDT relay-output channels
- 2

Receives programmed alarm-drive logic from the 3500/32M control module
- 3

Supports normally energized or normally de-energized operation per relay
- 4

Switches external annunciation, trip and interlock circuits within documented contact ratings

SYSTEM COMPONENTS

3500 rack rear slot

3500/32M relay control module

Alarm-drive logic configuration

Protected external trip or annunciation circuits

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitior monitor	Open product page
125680-01	Internal-termination Proximitior I/O module	Open product page
125760-01	3500 Data Manager I/O module	Open product page
125768-01	3500 RIM RS232/RS422 I/O module	Open product page
128240-01	External-termination Prox/Seismic I/O	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Relay outputs	4
Relay contact type	SPDT
Relay sealing	Epoxy-sealed
Arc suppressor	250 Vrms standard
Contact life	100000 cycles at 5 A, 24 Vdc or 240 Vac
Coil operating mode	Normally energized or de-energized
Minimum switched current	100 mA at 12 Vdc
Maximum switched current	2 A at 0-30 Vdc

PARAMETER	VALUE
Maximum DC switched voltage	125 Vdc
Maximum AC switched voltage	250 Vac
Maximum AC switched power	450 VA
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95% non-condensing
Rear rack space	1 full-height slot
Service status	Repair-only spare

TECHNICAL NOTE

Review each contact load and relay energization philosophy, isolate every external source at the terminals and prove the configured AND/OR voting logic before reconnecting shutdown circuits.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Machinery shutdown relay logic

Provides four independent SPDT relay-output channels

Alert and Danger annunciation

Receives programmed alarm-drive logic from the 3500/32M control module

Not-OK interlock output

Supports normally energized or normally de-energized operation per relay

Multi-channel voting alarm output

Switches external annunciation, trip and interlock circuits within documented contact ratings

PRODUCT PRECAUTIONS

- 1 Confirm 125720-01 is assigned to the rear slot paired with the intended 3500/32M control module.
- 2 Isolate every AC and DC field source before touching the relay terminals.
- 3 Record common, normally open and normally closed conductors for all four SPDT channels.
- 4 Verify the normally energized or de-energized selection for each relay before power-up.
- 5 Keep switched voltage and current within the published standard-system ratings.
- 6 Use the restricted ratings when the rack is approved for hazardous-area or functional-safety service.
- 7 Recreate the documented Alarm Drive AND/OR logic in Rack Configuration Software.
- 8 Test Alert, Danger, Not-OK and selected PPL inputs without bypassing plant safeguards.

ENGINEER FAQ

Q1 How should 125720-01 be isolated before field wiring is disturbed?

Place the protected machine in its approved maintenance state, isolate rack and field energy applicable to Alarm-drive logic configuration, and prove the terminals safe before disconnection.

Q2 Which configuration should be restored after replacing 125720-01?

Restore the approved 3500/32M Relay System slot, channel or interface configuration and verify that every connected circuit retains its original assignment.

Q3 How can 125720-01 be commissioned for machinery shutdown relay logic?

Apply a controlled input or command, review the model-specific diagnostics and prove the expected measurement, indication and protection response before releasing the channel.

Q4 What technical value deserves special attention when checking 125720-01?

Verify the published relay sealing value of Epoxy-sealed against the installed configuration and test record.

Q5 Can 125720-01 be exchanged with another 3500 I/O or monitor execution?

Only when the complete part number, termination style, transducer or interface type and approved rack configuration match the installed duty; do not transfer settings from an adjacent model.

Q6 What evidence should be retained after 125720-01 returns to service?

Retain the full 125720-01 identity, as-left connections, restored configuration, final diagnostics and the controlled functional-test result for alert and danger annunciation.

Q7 Which rack hardware must be matched before installing 125720-01?

Match 125720-01 to the documented 3500 rack rear slot and 3500/32M relay control module; confirm the front/rear slot pairing and the complete physical marking before connection.

Q8 What as-found information should an engineer record before removing 125720-01?

Record every channel or port assignment, connector identity, configured function, cable tag and diagnostic state associated with 125720-01.