

INDUSTRIAL AUTOMATION PRODUCT

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.

| IDENTITY      | VERIFIED VALUE        |
|---------------|-----------------------|
| Manufacturer  | Bently Nevada         |
| System family | 3500/32M Relay System |
| Part number   | 125720-01             |
| Country       | USA                   |
| HS code       | 8537101190            |

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## Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

| PARAMETER                   | TECHNICAL 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                         |
| 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                       |

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## System Role and Architecture

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.

FUNCTION 1

Provides four independent SPDT relay-output channels

FUNCTION 2

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

FUNCTION 3

Supports normally energized or normally de-energized operation per relay

FUNCTION 4

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

### Matched system components

- 3500 rack rear slot
- 3500/32M relay control module
- Alarm-drive logic configuration
- Protected external trip or annunciation circuits

### SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                                      |
|----------------------------|------------------------------------------------------|
| Installed host / carrier   | 3500 rack rear slot                                  |
| Companion hardware         | 3500/32M relay control module                        |
| Field connection           | Alarm-drive logic configuration                      |
| Primary system function    | Provides four independent SPDT relay-output channels |
| Controlled acceptance duty | Machinery shutdown relay logic                       |

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## Applications and Engineering Context

**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

**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.

**MODEL-SPECIFIC ACCEPTANCE EVIDENCE**

| CHECK              | ACCEPTANCE CONDITION                                 |
|--------------------|------------------------------------------------------|
| Identity           | 125720-01 / 125720-01 recorded                       |
| Physical interface | 3500 rack rear slot                                  |
| Companion check    | 3500/32M relay control module                        |
| Functional proof   | Provides four independent SPDT relay-output channels |
| Application test   | Machinery shutdown relay logic                       |

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## Engineering 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.

### RELATED PRODUCTS ON APTER POWER

| MODEL              | SYSTEM ROLE                               | APTER POWER PAGE                  |
|--------------------|-------------------------------------------|-----------------------------------|
| 3500/40M 176449-01 | Four-channel Proximity monitor            | <a href="#">Open product page</a> |
| 125680-01          | Internal-termination Proximity I/O module | <a href="#">Open product page</a> |
| 125760-01          | 3500 Data Manager I/O module              | <a href="#">Open product page</a> |
| 125768-01          | 3500 RIM RS232/RS422 I/O module           | <a href="#">Open product page</a> |
| 128240-01          | External-termination Prox/Seismic I/O     | <a href="#">Open product page</a> |

### MANUFACTURER SOURCE RECORD

3500/32M 4-Channel Relay Module Datasheet

141533 Rev. W

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