Specifications and Ordering Information **3500/32 4-Channel Relay Module**





Description

The 4-Channel Relay Module is a full-height module that provides four relay outputs. Any number of 4-Channel Relay Modules can be placed in any of the slots to the right of the Rack Interface Module. Each output of the 4-Channel Relay Module can be independently programmed to perform needed voting logic.

Each relay utilized on the 4-Channel Relay Module includes "Alarm Drive Logic". The Alarm Drive Logic is programmed using AND and OR logic, and can utilize alarming inputs (alerts and dangers) from any monitor channel or any combination of monitor channels in the rack. This Alarm Drive Logic is programmed using the 3500 Rack Configuration Software to meet the specific needs of the application.

Note: Triple Modular Redundant (TMR) applications require the use of the 3500/34 TMR Relay Module. Consult Bently Nevada Specification and Ordering

Information part number 141534-01 for details.

Specifications

Inputs

Power Consumption: 6 Watts typical.

Outputs

OK LED: Illuminated when module is functioning

properly.

TX/RX LED: Transmit and Receive. Flashes to

indicate proper communications between this module and other modules

within the rack.

CH ALARM

Illuminated to indicate that the Relay

Channel is in an alarm state.

Relays

LED:

Type: Two single-pole, double-throw

(SPDT) relays connected in a double-pole, double-throw (DPDT)

configuration.

Environmental Sealing

Contact Life

Epoxy-sealed.

Arc Suppressor 250 Vrms, installed as standard.

100,000 cycles @ 5 A, 24 Vdc or

120 Vac.

Operation Each channel is switch selectable

for Normally De-energized or

Normally Energized.

Environmental Limits

Operating Temperature: -30°C to +65°C

(-22°F to +150°F).

Storage Temperature: -40°C to +85°C

(-40°F to +185°F).

Humidity: 95%, non-condensing.

CE Mark Directives

EMC Directives:

EN50081-2: Radiated Emissions

EN 55011, Class A

Conducted Emissions EN 55011, Class A

EN50082-2: Electrostatic Discharge

EN 61000-4-2, Criteria B

Radiated Susceptibility ENV 50140, Criteria A

Conducted Susceptibility ENV 50141, Criteria A

Electrical Fast Transient EN 61000-4-4, Criteria B

Surge Capability

EN 61000-4-5, Criteria B

Magnetic Field

EN 61000-4-8, Criteria A

Power Supply Dip

EN 61000-4-11, Criteria B

Radio Telephone

ENV 50204, Criteria B

Low Voltage Directives:

Safety Requirements EN 61010-1

Hazardous Area Approvals

CSA/NRTL/C: Class I, Division 2, Groups A

through D.

Contact Ratings

Resistive load:

Max switched

dc: 120 W

power:

ac: 600 VA

Minimum switched

current:

100mA @ 5 Vdc

Max switched

current:

voltage:

5 A

Max switched

dc: 30 Vdc

ac: 250 Vac

Physical

Main Module:

Dimensions (Height x Width x Depth):

241 mm x 24.4 mm x 242 mm

(9.50 in x 0.96 in x 9.52 in).

Weight: 0.7 kg (1.6 lbs.).

I/O Module:

Dimensions (Height

241 mm x 24.4 mm x 99.1 mm

x Width x Depth): (9.50 in x 0.96 in x 3.90 in).

Weight:

0.4 kg (1.0 lbs.).

Rack Space Requirements

Main Module: 1 full-height front slot.

I/O Modules:

1 full-height rear slot.

Ordering Information

3500 4-Channel Relay Module 3500/32 -AXX-BXX Option Descriptions

A: Output Module

0 1 4-Channel Relay I/O

Module

B: Agency Approval

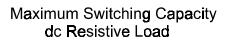
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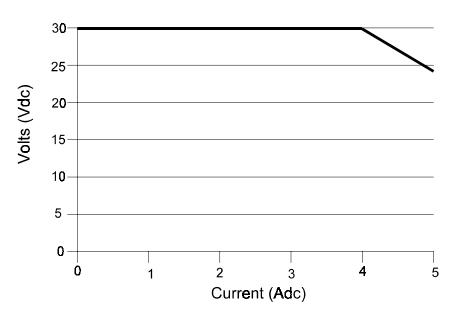
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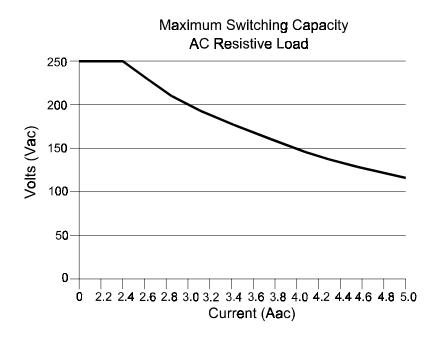
01 CSA/NRTL/C

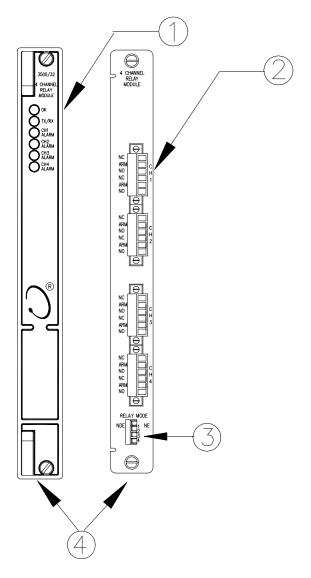
Spares	
125712-01	Spare 4-Channel Relay Module
125720-01	Spare 4-Channel Relay I/O Module
04425545	Grounding Wrist Strap (single use)
132319-01	Firmware IC
04400037	IC Removal Tool
00580436	Connector Header, Internal Termination, 6-position, Green
129771-01	4-Channel Relay Module Manual

Figures and Tables









- 1) LEDs indicate the status of the relay channels.
- 2) Terminals for connecting relay contacts to external devices.
- 3) Switches that control how the relay contacts work.
- 4) 4 Channel Relay and I/O Modules

Front and rear view of the 4-Channel Relay Module

All data is subject to change without notice

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