3500/32 4 Channel Relay Module

Bently Nevada™ Asset Condition Monitoring

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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 programming uses 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

TX/RX LED:

Transmit and Receive. Flashes

to indicate proper

functioning properly.

communications between this module and other modules

within the rack.

CH ALARM LED:

Illuminated when the Relay

Channel is in an alarm state.

Two single-pole, double-throw

250 Vrms, installed as standard.

100,000 cycles @ 5 A, 24 Vdc or

Relays

Type:

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

Environmental Sealing

Epoxy-sealed.

Arc

Suppressor

Contact Life

Operation

Each channel is switch selectable for Normally

120 Vac.

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:

IEC61000-6-4

Radiated **Emissions**

EN 55011, Class A

Conducted **Emissions**

EN 55011, Class A

IEC61000-6-2

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

Approval Option (01)

> Class I, Div 2 Groups A, B, C, D

T4 @ Ta = -20 °C to +65 °C

(-4 °F to +150 °F)

Certification Number

CSA 150268-1002151 (LR 26744)

Contact Ratings

Resistive load:

Max switched power:

dc: 120 W **ac:** 600 VA

Minimum switched current:

10mA @ 5 Vdc

Max switched current:

5 A

Max switched voltage:

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 lb.).

I/O Module:
Dimensions
(Height x Width x Depth):

241 mm x 24.4 mm x 99.1 mm

(9.50 in x 0.96 in x 3.90 in)

Weight:

0.4 kg (1.0 lb.)

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

A: Output Module

01 4-Channel Relay I/O Module

B: Agency Approval Option

0 0 None0 1 CSA/NRTL/C

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