# Bently Nevada 3500 Series Service Manual

3500/33-01-01

## 1. Description

3500/33-01-01

## 3. Product Information

3500/33-01-01 | Bently Nevada | 3500/33 16-Channel Relay Module

Manufacturer : Bently Nevada

Product No. : 3500/33-01-01

Product type : 3500/33 16-Channel Relay Module

Made in U.S.A

Ordering Information

3500/33-AA-BB

A: Output Module

01 = 16-Channel Relay Output Module

B: Hazardous Area Approval Option

01=cNRTLus (Class 1, Division 2)

Inputs

Power Consumption 5.8 watts typical

Outputs

Front Panel LEDs

OK LED Illuminated when the 3500/33 16-Channel Relay Module is operating properly.

TX/RX LED Transmit and receive flashes when the 3500/3316-Channel Relay Module is communicating with other modules in the 3500 rack.

CH Alarm LED Illuminated when Relay channel is in an alarm state.

Relay Type Single-pole Double-throw (SPDT)

Relay Environmental Sealing Epoxy-sealed

Relay Arc Suppressor 250 Vrms Installed as standard

Relay Contact Life 10,000 cycles

Relay Operation Four groups of four channels are switch selectable for Normally De-energized (ND) or Normally Energized (NE) operation.

Physical

Main Module

Dimensions

(height x widthx 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 widthx 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

Contact Ratings for Standard

Systems

Standard Relays

Min Switched Current 100 mA @ 5 Vdc

DC Specifications (Resistive Load)

Max Switched Current 5 A

Max Switched Power

70 W @ 24 Vdc

10 W @ 48 Vdc

9 W @ 60 Vdc

Max Switched Voltage: 125 Vdc

AC Specifications (Resistive Load)

Max Switched Current: 5 A

Max Switched Power: 1200 VA

Max Switched Voltage: 250 Vac

Contact Ratings for Failsafe Systems and Hazardous Area Systems

Standard Relays

Min Switched Current :100 mA @ 5 Vdc

DC Specifications (Resistive Load)

Max Switched Current: 5 A

Max Switched Voltage: 30 Vdc

Contact Ratings for Special Low Current Relay Applications

Low Current Relays

DC Specifications (Resistive Load)

Min Switched Current: 1 mA @ 1 Vdc

Max Switched Current : 100 mA @ 48 Vdc

Specific to AC up to 120VAC:

I The Minimum switching current for Gold

plated is 1m A

I The maximum switching current before

damaging the Gold relays is 5m A