3500/32 4 Channel Relay Module

Bently Nevada™ Asset Condition Monitoring



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		Environmental Limits		
		Operating		
Inputs		Temperature:		
Power Consumption:			-30 °C to +65 °C	
consumption.	6 watts typical.		(-22 °F to +150 °F)	
0		Storage		
Outputs OK LED:		Temperature:		
OR LLD.	Illuminated when module is		-40 °C to +85 °C	
	functioning properly.		(-40 °F to +185 °F)	
TX/RX LED:		Humidity:		
	Transmit and Receive. Flashes		95%, non-condensing.	
	to indicate proper	CE Mark Directi	ves	
	communications between this module and other modules	EMC Directives:		
	within the rack.	IEC61000-6-4		
CH ALARM		Radiated		
LED:		Emissions		
	Illuminated when the Relay Channel is in an alarm state.		EN 55011, Class A	
	Channel is in an alarm state.	Conducted		
Relays _		Emissions		
Туре:			EN 55011, Class A	
	Two single-pole, double-throw (SPDT) relays connected in a	IEC61000-6-2		
	double-pole, double-throw	Electrostatic		
	(DPDT) configuration.	Discharge		
Environmental			EN 61000-4-2, Criteria B	
Sealing		Radiated		
	Epoxy-sealed.	Susceptibility		
Arc Suppressor			ENV 50140, Criteria A	
	250 Vrms, installed as standard.	Conducted Susceptibility		
Contact Life		Jusceptionity	ENV 50141, Criteria A	
contact Life	100,000 evelos @ 5 A 24 V/dc or	Flastrical Fast	ENV JOI41, CHIEHU A	
	100,000 cycles @ 5 A, 24 Vdc or 120 Vac.	Electrical Fast Transient		
Operation			EN 61000-4-4, Criteria B	
	Each channel is switch	Surge		
	selectable for Normally	Capability		
	De-energized or Normally Energized.		EN 61000-4-5, Criteria B	

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Magnetic			5 A		
Field	EN 61000-4-8, Criteria A	Max switched voltage:			
Power Supply		vonage.	dc: 30	0 Vdc	
Dip			ac: 25	50 Vac	
	EN 61000-4-11, Criteria B	Physical			
Radio Telephone		Main Module:			
Low Voltage	ENV 50204, Criteria B	Dimensions (Height x Width x Depth):			
Directives:			241 n	nm x 24.4 mm x 242 mm	
			(9.50	in x 0.96 in x 9.52 in).	
Safety Requirements		Weight:			
·	EN 61010-1		0.7 kg	g (1.6 lb.).	
Hazardous Area	ı Approvals	I/O Module:			
CSA/NRTL/C Approval		Dimensions (Height x Width			
Option (01)		x Depth):	2/1 -		
	Class I, Div 2			nm x 24.4 mm x 99.1 mm	
	Groups A, B, C, D	144-1-64	(9.50	in x 0.96 in x 3.90 in)	
	T4 @ Ta = -20 °C to +65 °C	Weight:	0.4.1.4		
	(-4 °F to +150 °F)	Deal Cases Dea		g (1.0 lb.)	
Certification Number		Rack Space Requirements Main Module:			
	CSA 150268-1002151 (LR 26744)		1 full-	-height front slot.	
Contact Ratings	5	I/O Modules:			
Resistive load:			1 full-	-height rear slot.	
Max switched power:		Ordering Inf	Ordering Information		
	dc: 120 W	3500 4-Channel Ro	3500 4-Channel Relay Module		
	ac: 600 VA	3500/32 -AXX-BXX			
Minimum		A: Output Module	01	4-Channel Relay I/O Module	
switched current:		B : Agency Approval	Option	·	
	10mA @ 5 Vdc		00 01	None CSA/NRTL/C	
Max switched current:					

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Spares 125712-01		04400037	
	Spare 4-Channel Relay Module		IC Removal Tool
125720-01		00580436	
	Spare 4-Channel Relay I/O Module		Connector Header, Internal Termination, 6-position, Green
04425545			
170710 01	Grounding Wrist Strap (single use)	129771-01	
132319-01	Firmware IC		4-Channel Relay Module Manual

Graphs and Figures



Figure 2

Specifications and Ordering Information Part Number 141533-01 Rev. A (03/07)



Figure 3: Front and rear view of the 4-Channel Relay Module

- 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

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