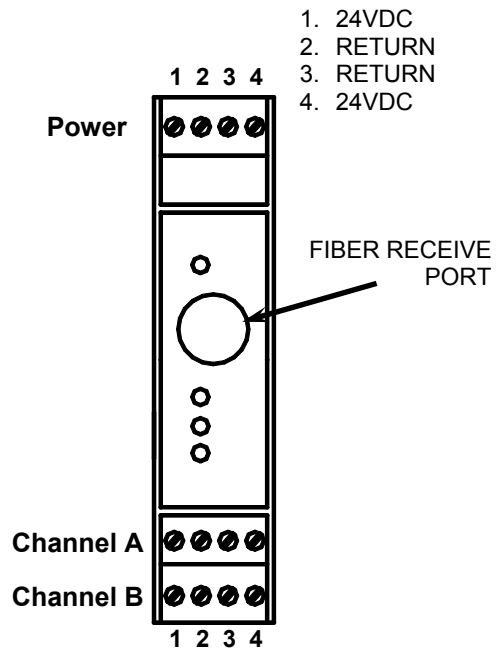


## Connections



1. NORMALLY OPEN
2. COMMON
3. COMMON
4. NORMALLY CLOSED

Note: Use shielded cable for all connections.

## Safety and Warning Information



Connect the DIN Rail via the End Clamp (2A09) to protective earth ground with low impedance. The modules are grounded to PE when they are snapped onto the DIN Rail.

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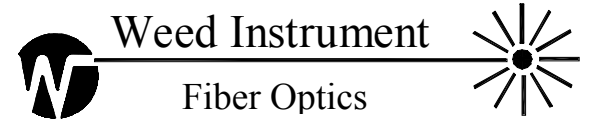
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## 2H09

EOTec 2000 Multi-Channel  
Contact Closure  
Optical Receive Module

## Installation Instructions



**Provides transfer of two channels of contact closure information over a single fiber from a partnered 2S09, 2S36, or 2S46.**

**For use with Multimode or Single-mode Glass Fiber ST\* Compatible Fiber Connections 1300nm Optical Wavelength**

## Operation

The 2S09, 2S36, or 2S46 module provides for two independent channels of dry contact closure input signals which are multiplexed and conditioned for transmission over a single fiber optic output. The fiber optic signal transferred to the partnered 2H09 receiver module is then demultiplexed and the actuation signals are transferred to their respective relay outputs. Closing a contact at an input causes a Form-C (SPDT) relay at the partnered output module to energize.

Up to four 2K02 (2-output) modules may be mated with the 2H09 receive module and up to four 2P02 (2-input) modules may be mated with the 2S09, 2S36, or 2S46 transmit module to increase the number of multiplexed contact closure channels to a total of ten. Communications between mated modules is achieved through the integrated BUS interconnections.

## Operational Settings

The Receiver Module requires no configuration.

## DIN Rail Mounting

### Installation on DIN rail:

Place the top lip of the module's DIN rail mounting channel onto the DIN rail. Push the lower portion of the module towards the mounting surface until it "clicks" and locks into place. Firmly slide the modules together such that the module sides are touching ensuring a good connection of the integrated BUS interconnection at the rear of the modules. Install End Clamps (Model 2A09) to both sides of the module bundle to prevent accidental unplugging of the BUS interconnections. The End Clamps also provide convenient screw terminals for connecting the DIN rail to Protective Earth (PE) ground.

### Removal from DIN rail:

Remove the End Clamps from the module bundle. Disconnect the BUS interconnections by sliding the modules at least 1/2" apart from each other on the DIN rail. Insert a screwdriver into the rectangular hole in the metal mounting latch at the bottom of the module. Pushing up on the screwdriver's handle causes the latch to move downward and disengages it from the DIN rail. Tilt the module up and lift it off of the DIN rail.

## Operating Power

A pluggable screw terminal block located at the top-front of the module accepts a nominal 24Vdc input and/or interconnect the unit with any EOTec 2000 power supply. In either case, operating power will be transferred via the integrated BUS interconnections to all adjacent modules.

## LED Indicators

### PWR (Power):

Green - On when operating power is present

### RX (Receive Optical Activity):

Amber - On or flashing with activity

### CH A (Channel A):

Green - On when "A" relay is energized

### CH B (Channel B):

Green - On when "B" relay is energized

## Specifications

Mounting:	35mm DIN Rail
Weight:	< 9 oz (250g)
Power Requirements:	7.5 to 9.5Vdc @ 200mA, (supplied from any EOTec 2000 power supply) --or-- 12 to 30Vdc @ 700mA, via a pluggable, screw terminal block, located at the top-front of module, accepts 12 to 24 AWG
Data Update Rate:	15ms maximum, regardless of the number of channels utilized
Output Contacts: Rating (max):	SPDT (Form-C) relay 220Vdc, 250Vac 2A switching 3A continuous
Output Connection:	Via pluggable, screw terminal blocks, located at the bottom-front of module, accepts 12 to 24 AWG
Optical Wavelength:	1300nm, LED
Optical Connections:	ST* Compatible
Operating Conditions Temperature: Relative Humidity:	-40 to 85°C 0 to 95% (non-condensing)
Flammability:	UL 94V-0

\* ST is a trademark of AT&T