

Safety and Warning Information



Connect the DIN Rail via the End Clamp to protective earth ground with low impedance. The modules are grounded to PE when they are snapped onto the DIN Rail. Two End Clamps are supplied with EOTec 2000 Power Supplies.

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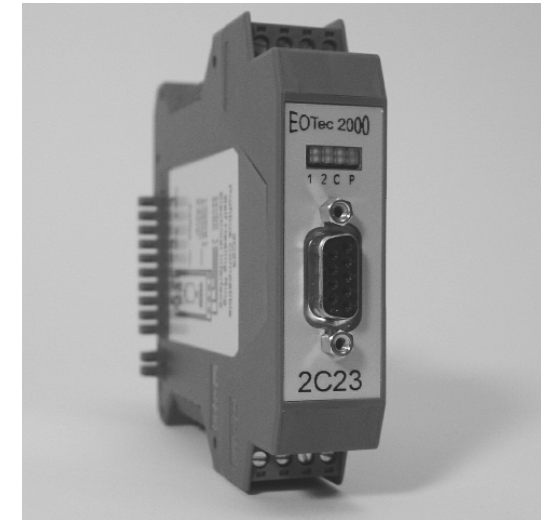
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Fiber Optics

2C23 Profibus Compatible Self-Healing Ring Electrical Interface

Installation Instructions



Self-Healing Ring Electrical Interface Module

Provides
Fiber Media Redundancy
when utilized in each node of a
fiber-ring network.

Detects and redirects data when
a break in the fiber occurs
between two adjacent nodes.

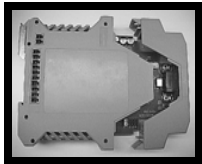
Operational Settings

Each optical module of the modem must be configured to the network topology to be used. This is accomplished by positioning a single jumper in each module.

Use a small screwdriver to press on the latches (indentations) at the top and bottom of the housing.

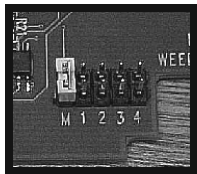


Partially slide the housing open.



Self-Healing Ring (Fiber Media Redundancy):
Jumper Setting:

Self-Healing Ring Module	None
1 st Optical Module	1
2 nd Optical Module	2



Jumper Location

Close the housing by sliding it back together until both the top and bottom latches "click" into place.

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. This ensures a good connection of the integrated BUS interconnection at the rear of the modules. Install End Clamps (two are supplied with each Power Supply) 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.

Connections

Power to the unit is supplied from an EOTec 2000 Power Supply Module via the module's integrated BUS interconnections or via the pluggable, screw terminal block located at the top-front of the module.

Two sets of relay contacts are available to provide remote indication of the fiber ring integrity. Each contact set will remain closed as long as the receive optical signal at its corresponding Optical Module is acceptable. The contact set will open to indicate a loss of receive optical signal. Connection to the relay contacts are made via a pluggable, cage-clamp, screw terminal block at the bottom-front of the module (terminals are numbered left to right).

Terminals 1 & 2	Contacts for Optical Module with jumper at position 2
Terminals 3 & 4	Contacts for Optical Module with jumper at position 3

LED Indicators

The four bi-color LEDs, on the front of the module provide visible indication of the fiber ring module status. The LED labeled "1" is the indicator for the Optical Module with its jumper in position 1. The LED labeled "2" is the indicator for the Optical Module with its jumper in position 2. These LEDs will be illuminated green when the receive optical signal from the corresponding Optical Module is acceptable. The LED will turn red when that corresponding Optical Module loses the signal from its receive optical port. The LED labeled "C" will flash with communications are active. The LED labeled "P" will be illuminated green when power is applied to the module and the module has successfully detected the baud rate.

Specifications

Mounting:	35mm DIN Rail
Weight:	< 9 oz (250g)
Power Requirements:	7.5 to 9.5Vdc @ 200mA Supplied from an EOTec 2000 Power Supply via the integrated BUS interconnections -or- 15 to 30VDC@400mA via the screw terminal block
Data Rate:	9.6K to 12M Baud Auto baud rate detect
Relay Contact Rating:	175Vdc, 0.25A Switching, 1A Continuous
Screw Terminals:	Pluggable terminal block accepts 12 to 24 AWG
Operating Range	
Temperature:	-40 to 85°C
Relative Humidity:	0 to 95% (non-condensing)
Flammability:	UL 94V-0