EOTec 2000
Model 2R09
Analog Link, Fiber Optic Receiver

The Model 2R09 Fiber Optic Receiver converts optical data into a 0 to 10Vdc analog output signal for use in process control. A single glass fiber connects the Fiber Optic Receiver (FOR) to its mated Fiber Optic Transmitter (FOT). These units deliver the highest degree of accuracy over their entire specified ambient temperature range and absolutely no field adjustments are ever required.

The DIN rail mounted unit is available with options for an extended ambient temperature range and a local digital display (see Model 2M01).

SPECIFICATIONS

Mechanical

Mounting: 35mm DIN Rail
Weight/Unit: < 9oz (250g)
Case Material: Plastic (UL94V-0)

Power Requirements: 24Vdc ±10% at 200mA
Wire Cable Connections: Pluggable, Cage-Clamp, Screw Terminal Blocks, accepts 12 to 24 AWG
System Accuracy (FOT+FOR): ± 0.1% maximum, over their entire operational temperature range
Stem Response Time (FOT+FOR): < 2ms (10% to 90% input step change) transfer rates to 800Hz
Optical Wavelength: 1300nm
Optical Connectivity: ST* compatible
Optical Dynamic Range: 25dB, utilizing 62.5/125µm, Multi-mode Fiber
21dB (standard power FOT), utilizing 9/125µm, Single-mode Fiber
29dB (high power FOT), utilizing 9/125µm, Single-mode Fiber
Analog Output Impedance: < 0.1 Ohm
LED Indicators: Green - Lock (receiving adequate optical signal strength from transmitter)
Amber - Over Range (of analog input signal)
Ambient Conditions: -40°C to 85°C Operational
0 to 95% Relative Humidity, Non-Condensing

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