

## Specifications

### Video Performance

Video Output Impedance	75 ohm (unbalanced)
Video Output Voltage	1V p-p NTSC, 1.3Vp-p PAL
Video Connector	BNC
Frequency Response	10 Hz to 7 MHz(-1dB)
Signal to Noise Ratio	62 dB as per RS250C
Differential Gain	<4%
Differential Phase	<4°
Field Tilt	<2%
Luminance Non-Linearity	<4%

### Optical Performance

Single mode - Core Diameter	8 - 10u
Optical Connector	ST, FC or SC
Receiving Wavelength	1310 nm
Receiver Sensitivity	- 36 dBm
Transmitting Light Source	Laser 1550 nm
Optical Power Output	-8 dBm(+/- 1 dBm)

### Data Interface

Data Interface	RS-485 Bi-directional – 2 or 4 wire
Data Rate	Up to 200Kb/s
Operating Temperature	-30 °C to +70 °C
Dimensions	170mm(L) x 126mm(W) x 34mm(D)
Power Requirements	12V AC or DC @ 300mA; 24VAC @ 200mA

## **155S-VR/DX-M1**

### **Fiber Optic Video Receiver & 1Ch. RS-485 Data Transceiver**

**Singlemode**

**Single Fiber Operation**

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## Introduction :

The Elcommtech 155S-VR/DX-M1 forms part of a singlemode, single fiber video and data fiber optic transmission system. Using frequency modulation and operating as a dual window 1310/1550nm single fiber unit, the 155S-VR/DX-M1 provides the following facilities in a 170mm x 126mm x 34mm free standing module.

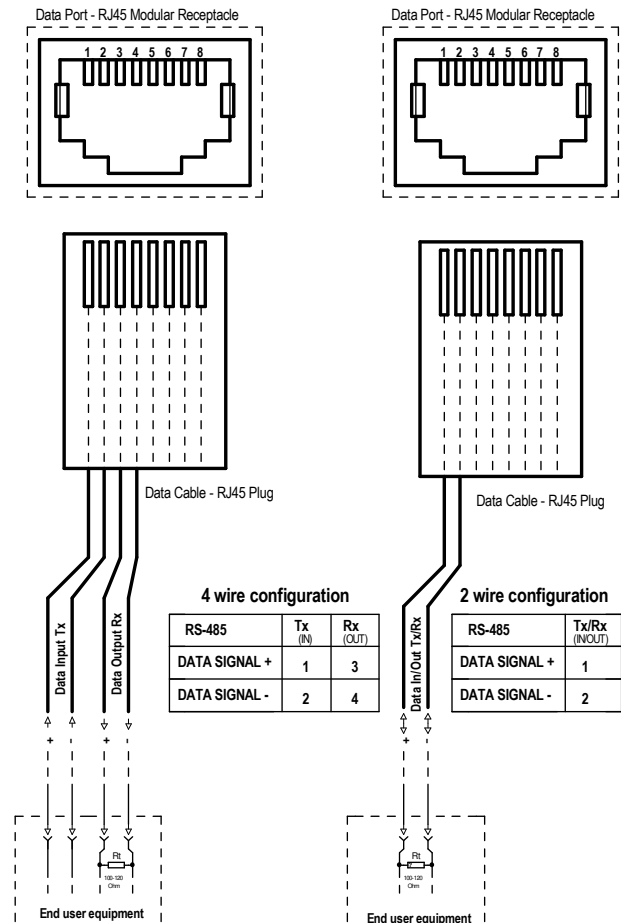
Optical Receiver for : Composite Video signal & 1 x RS-485 Data Channels

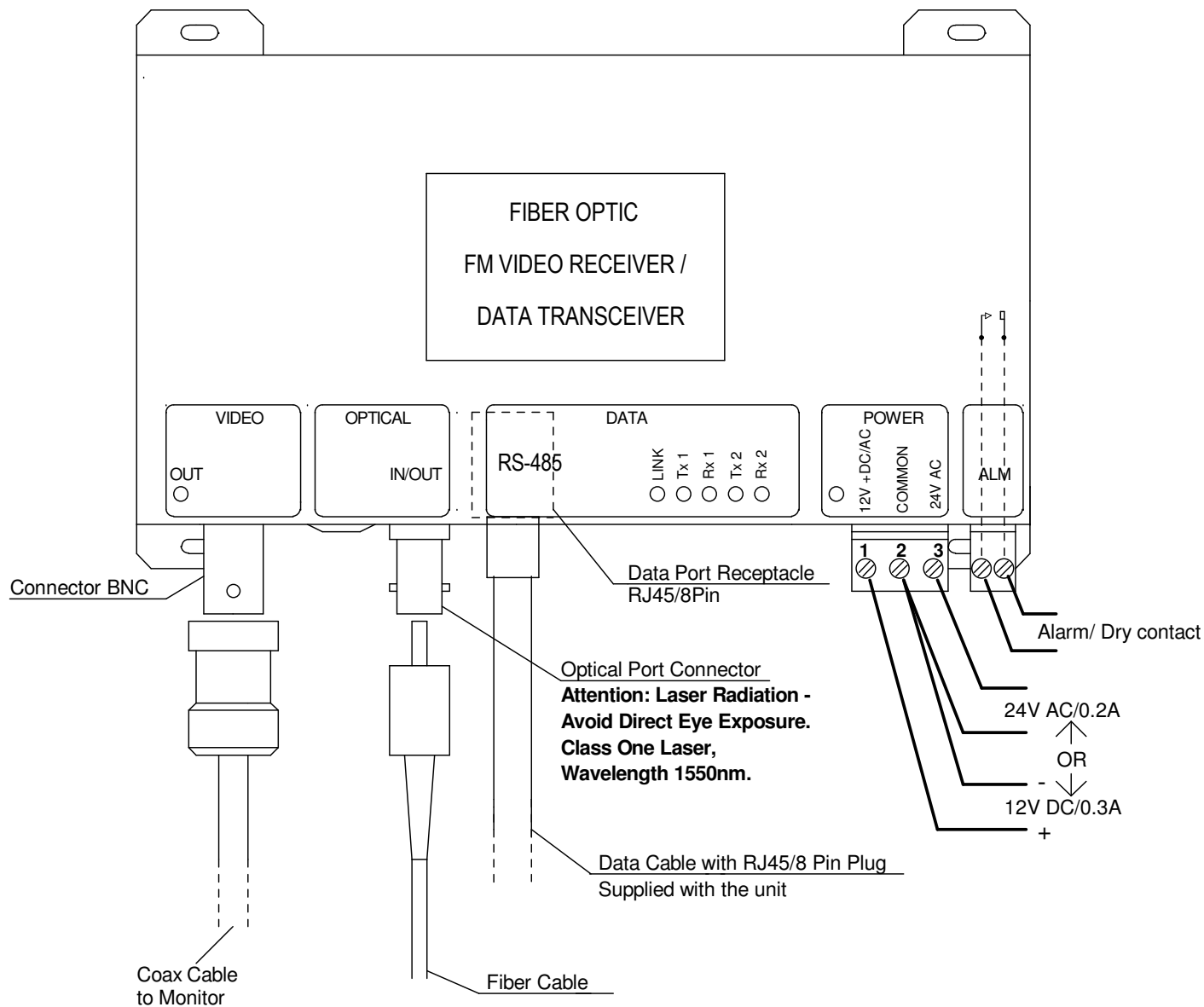
Optical Transmitter for : 1 x RS-485 Data Channels

**Indicators** :- All indicators are located on the top of the module.

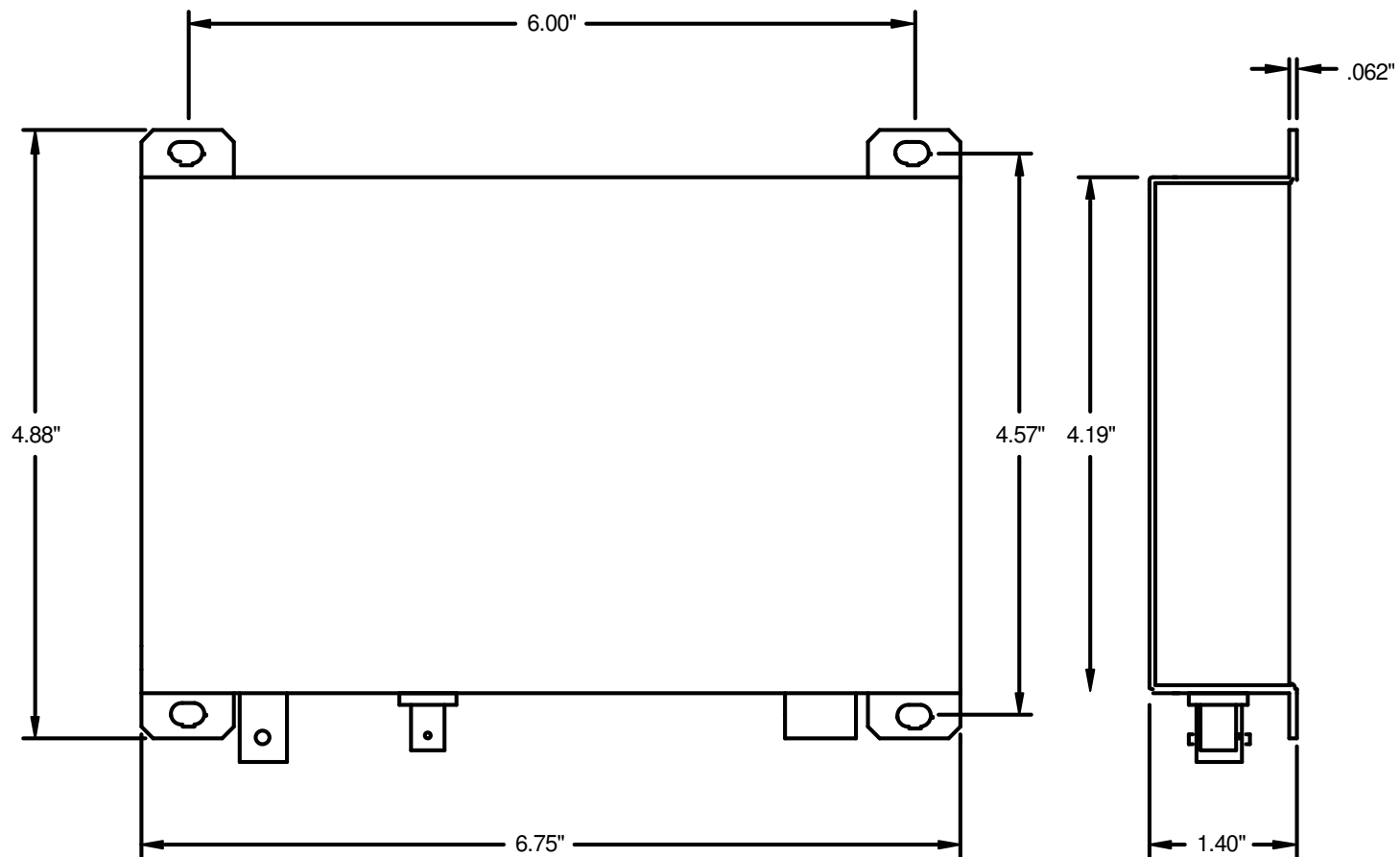
Indicator		
Power	off	The unit is not powered
	green	Power connected
Video Output	off	No link - no carrier signal present
	red	Link on – carrier signal present, but no video signal present
	green	Composite video signal present
Data Link	off	No received optical signal present
	green	Optical signal received
Data Tx1	off	No data signal present at the optical transmitter Ch.1 input
	red	Data signal is present at the optical transmitter Ch.1 input
Data Rx1	off	No data signal present at the optical receiver Ch.1 output
	green	Data signal is present at the optical receiver Ch.1 output
Data Tx2	off	No control signal present at the optical transmitter Ch.2 input
	red	Control signal is present to the optical transmitter Ch.2 input
Data Rx2	off	No control signal present at the optical receiver Ch.2 output
	green	Control signal is available at the optical receiver Ch.2 output

## Data Connector Pinouts





155S-VR/DX-M1 Video Receiver / Data Transceiver Connections



Installation Drawing