

Specifications

Video Performance

Video Output Impedance	75 ohm (unbalanced)
Video Output Voltage	1V p NTSC, 1.3Vp PAL
Video Connector	BNC
Frequency Response	10 Hz to 7 MHz (3 dB)
Signal to Noise Ratio	62 dB as per RS250C
Differential Gain (-20°C to +70°C)	<4%
Differential Gain (-30°C to +85°C)	<7%
Differential Phase (-20°C to +70°C)	<4°
Differential Phase (-30°C to +85°C)	<7°
Field Tilt	<2%
Luminance	
Non-Linearity (-20°C to +70°C)	<4%
Luminance	
Non-Linearity (-30°C to +85°C)	<7%

Optical Performance

Single mode - Core Diameter	8 - 10u
Optical Connector	ST, FC or SC
Receiving Wavelength	1310 nm
Receiver Sensitivity	- 34 dBm
Transmitting Light Source	Laser 1550 nm
Optical Power Output	-8 dBm(+/- 2 dBm @ -30 °C to +85 °C)

Data Interface

Data Interface	RS-485 Bi-directional – 2 or 4 wire
Data Rate	Up to 200Kb/s

* measured with 155S-VT/DX-M1ST unit as per RS-250C @ 1km single mode optical cable

Operating Temperature	-30 °C to +85 °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.

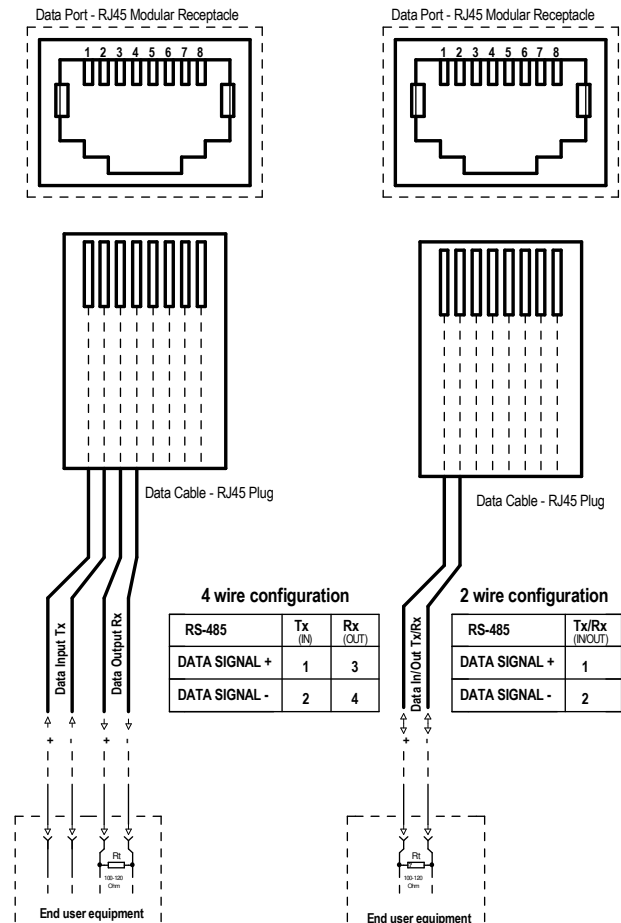
Optical Receiver for : Composite Video signal & 1 x RS-485 Data Channels

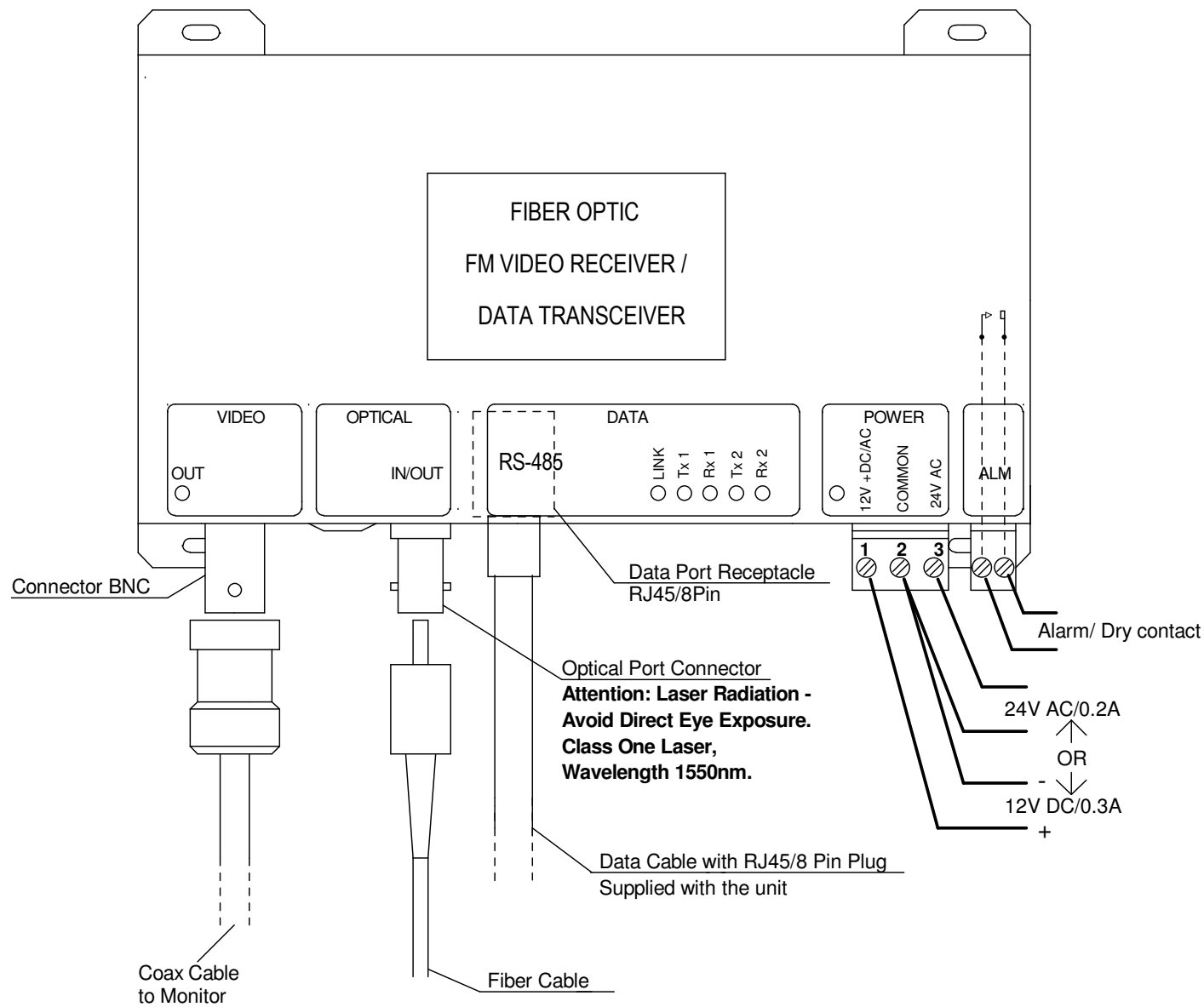
Optical Transmitter for : 1 x RS-485 Data Channels

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

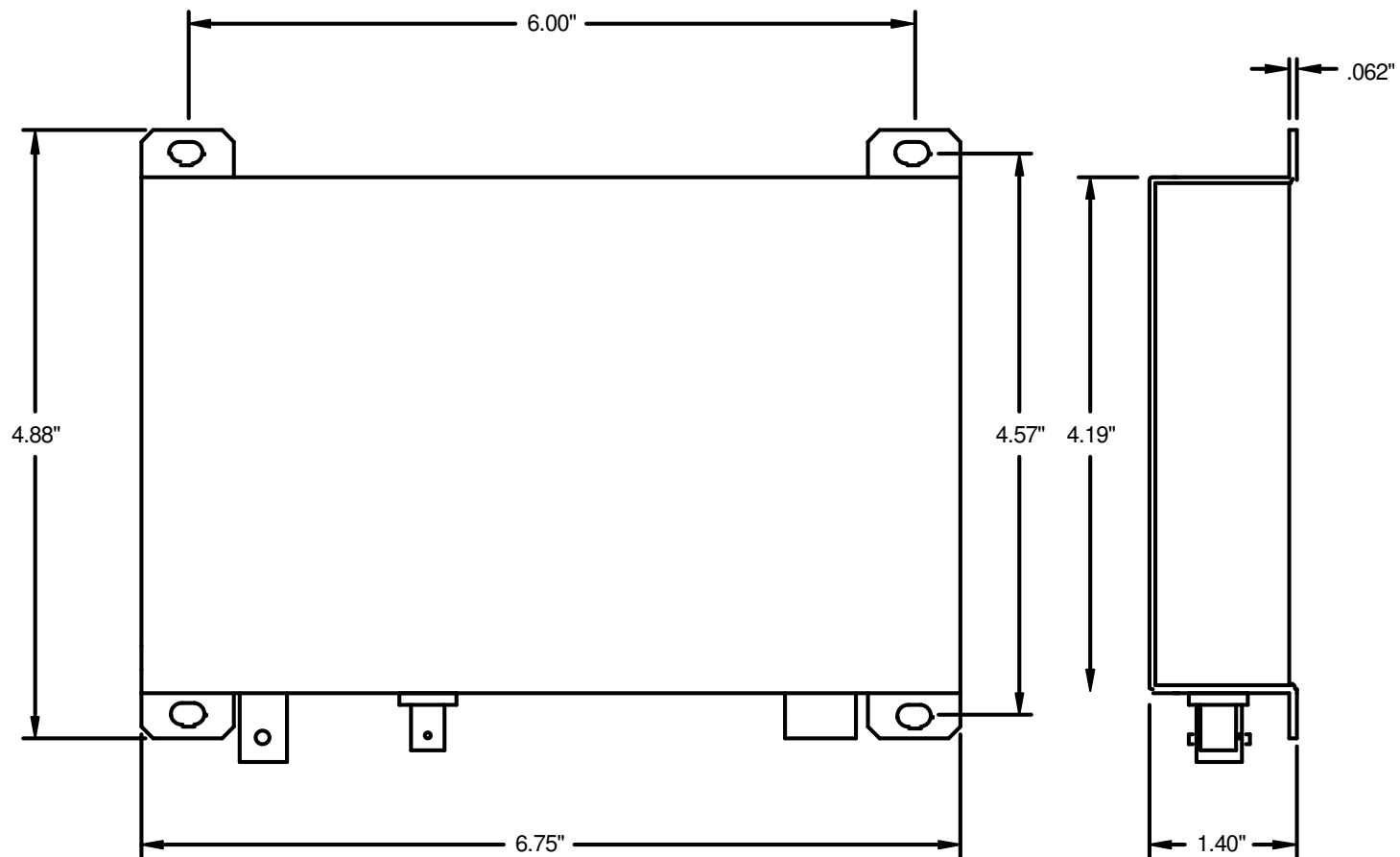
Indicator		
Power	off	The unit is not powered
	green	Power connected
Video Output	off	No link - no carrier signal is present
	red	Link on – carrier signal is present, but no video signal is present
	green	Composite video signal is present
Data Link	off	No data link – no data carrier signal is received
	green	Data carrier signal is received.
Data TX1	off	No data signal is transmitted at the TX1 input
	red	Data signal is transmitting at the TX1 input
Data RX1	off	No data signal is received at the RX1 output
	green	Data signal is receiving at the RX1 output
Data TX2	off	No direction control signal is transmitted at the TX2 input
	red	Direction control signal is transmitting at the TX2 input
Data RX2	off	No direction control signal is received at the RX2 output
	green	Direction control signal is receiving at the RX2 output

Data Connector Pinouts





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



Installation Drawing