OSD156 SYNCHRONOUS RS232 TRANSCEIVER

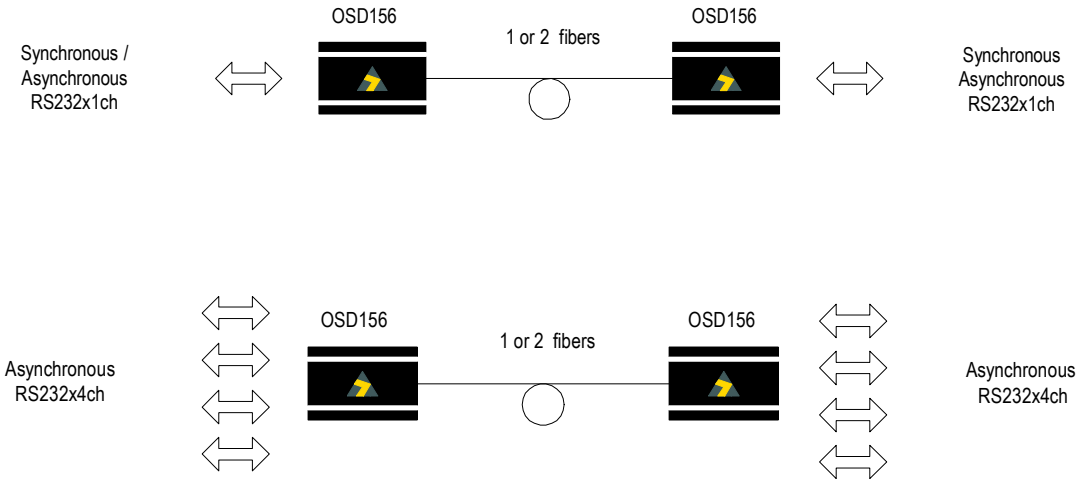
APPLICATIONS

- Secure communications
- Long distance synchronous or asynchronous RS232 links
- Hazardous environments
- Links requiring transfer of control lines
- Terminal cluster to computer links

FEATURES AND BENEFITS

- Small EMI/RFI resistant metal enclosure plugs onto the back of the computer or terminal
- Safe transmission in hazardous environments
- Full duplex asynchronous transmission of
  - 1 data signal at up to 300kbps
  - 3 control signals at up to 80kbps

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

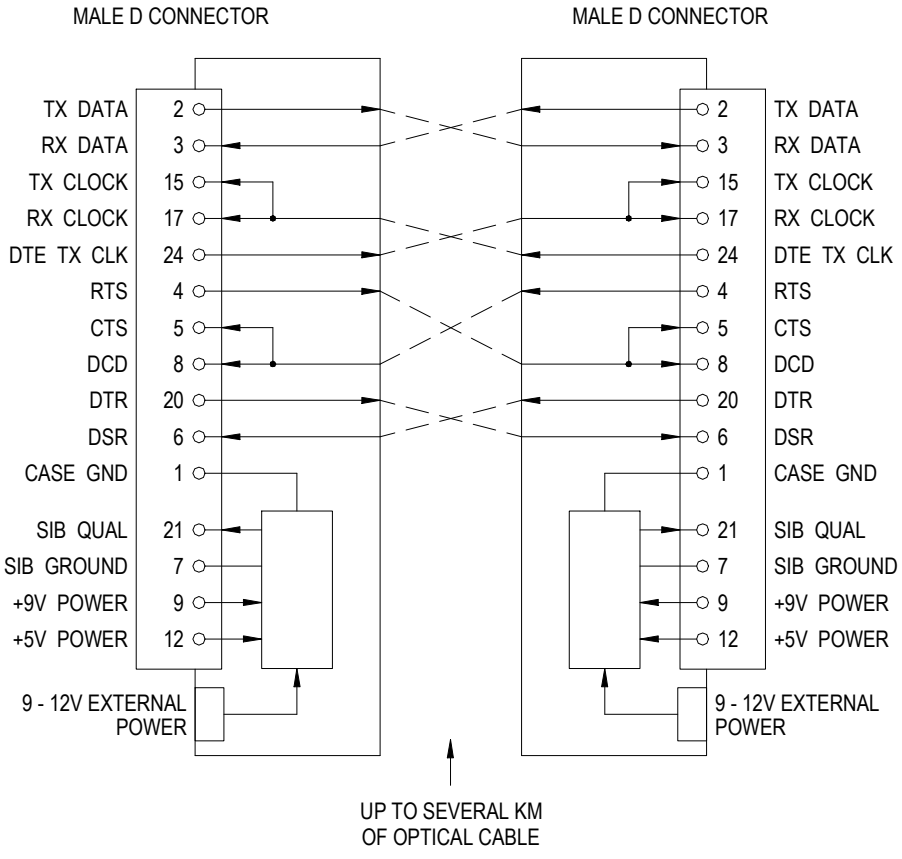
OSD156	Fiber Optic RS232 Transceiver, compact module
OSD156L	Singlemode Fiber Optic RS232 Transceiver, compact module
OSD156MB	Wall mounting bracket for compact module

SPECIFICATIONS

PERFORMANCE

Data Rate	DC to 300kbps on Data (I/P: Pin 2, O/P: Pin 3) DC to 80kbps on Controls (I/P: Pins 4, 20, 24; O/P: Pins 5/8, 6, 15/17)
Pulse Distortion	<1µS on Data signal <4µS on each Control signal
Optical Transmit Power	-20 to -14dBm into multimode fiber (OSD156) -20 to -13dBm into singlemode fiber (OSD156L)
Receiver Sensitivity	<-43dBm
Optical Link Budget	>23dB at 850nm for OSD156 (>6km of multimode fiber) >23dB at 1310nm for OSD156L (>60km of singlemode fiber)
Receiver Saturation	>-10dBm
Optical Wavelength	850nm nominal (1310nm for the OSD156L)
Optical Connector	ST standard
Optical Signal Loss Indicator	LED is green with good signal and red with too low an optical signal
Electrical Connector	25pin Male D-Subminiature
Power Connector	1.3mm socket on side of case
Power	+8 to + 13VDC @ 150mA supplied by external power supply or via pin 9 of the D connector **OR** 4.75 to 5.25VDC supplied via pin 12 of the D connector
Dimensions (mm)	15H x 44W x 80D (excluding optical connectors)
Operating Temperature	-20 to +75℃
Relative Humidity	0 to 95% non-condensing

D CONNECTOR PIN ASSIGNMENTS



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