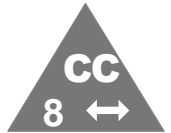


APPLICATIONS

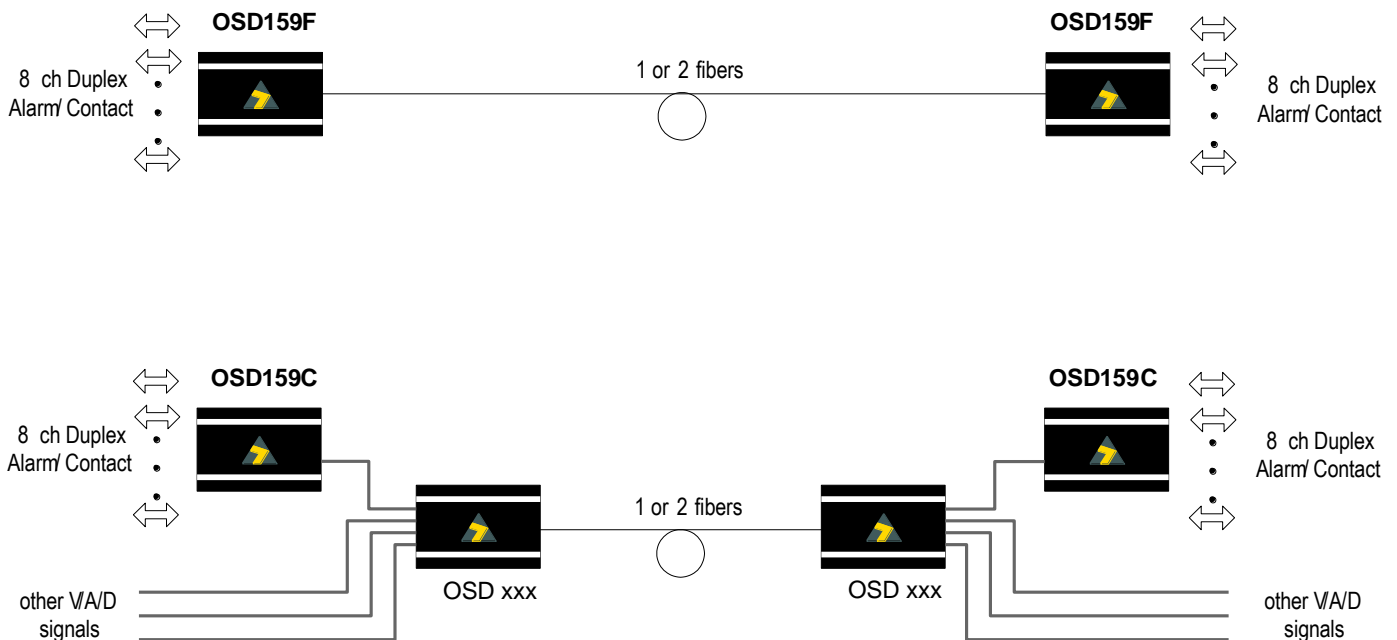
- ▲ Security monitoring or access control systems
- ▲ Simple remote control systems
- ▲ Transmission of open/closed contacts



FEATURES AND BENEFITS

- ▲ Enables up to 8 duplex alarm conditions to be transferred via one RS232/TTL data channel
- ▲ Both card or standalone module versions are available
- ▲ Available as either a fiber optic modem or as an RS232 based copper modem
- ▲ RS232 version can work with any OSD fiber optic modem which has at least one spare data transmission channel
- ▲ Complete end-to-end isolation either as a fiber optic unit or as an RS232 link working in conjunction with other OSD fiber modems
- ▲ Small, robust and reliable
- ▲ Optionally available with inverting input, ie a voltage of between 5 and 24V on the input causes a closed contact at the corresponding output whereas a grounded or open input results in an open output. This is Option INV

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD159	Card Version, 1-slot RS232 Unit	Option F	2-Fiber Multimode Operation
Option C	Standalone Module Version	Option FL	2-Fiber Singlemode Operation
Option INV	Inverting Input Signal	Option W	Single Fiber Operation



SPECIFICATIONS

Capacity	8 duplex channels
Sampling Rate	480Hz
Copper Line Interface	RS232 at 9600bps
Input Interface	Buffered and protected, open/closed sensing, contact closure from IN to GND for non-inverting mode and to input voltage or open for inverting mode will close alarm receiver N/O.
Input Loop Resistance	External closed loop, 1000Ω max.
Output Interface	Optically isolated MOSFET (80mA @ 200V DC or AC with <35Ω On resistance)
Alarm Interface Connector	25 pin D female subminiature connector

OPTIONAL FIBER VERSION

Optical Wavelength	850 ± 40nm for OSD159F 1310nm ± 40nm for OSD159FL
Transmitter Optical Power	-15 to -12dBm into multimode fiber -15 to -10dBm into singlemode fiber
Receiver Sensitivity	<-40dBm for 1 x 10 ⁻⁹ BER
Optical Link Budget	>25dB at 850nm (>6km of multimode fiber) >25dB at 1310nm (>20km of multimode fiber, >50km of singlemode fiber)
Receiver Saturation	>-7dBm
Optical Connectors	ST standard

POWER/CONNECTORS/ENVIRONMENTAL

Indicators	Link Status (Green: Link OK; Red: Link Faulty)
Link Alarm	MOSFET switched to GND on Pin 4 of Terminal Block when link is OK (Rated at <1.0A @ 30VDC)
Copper Line & Alarm Connector	4 Position Terminal Block
Dimensions (mm)	Small module. 110W x 104D x 25H OR OSD standard card, 208D x 100W x 25H
Weight	200g (module), 150g (card)
Power Requirements Power Connector	8 to 40VDC or 15 to 26VAC at 3VA maximum 2 Position Terminal Block
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.25 Amp