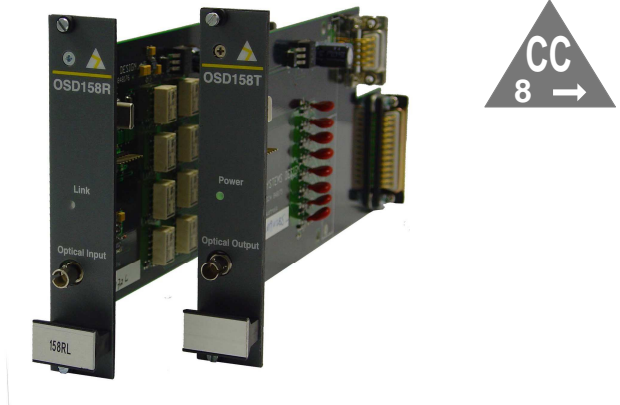


APPLICATIONS

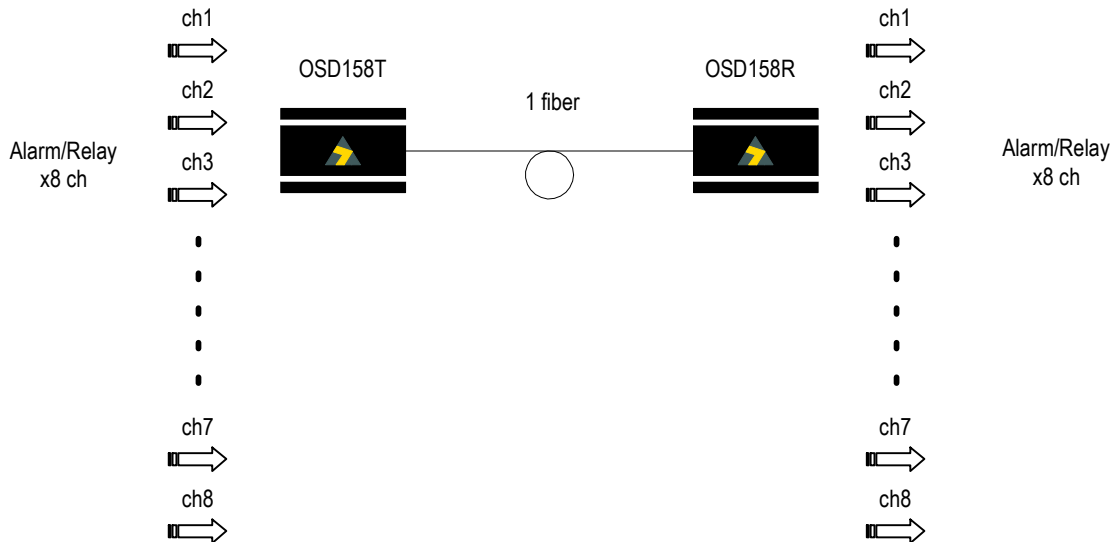
- ▲ Security and fire panel monitoring
- ▲ Simple remote control systems
- ▲ Transmission of open/closed contacts



FEATURES AND BENEFITS

- ▲ Enables up to 8 alarm conditions to be transferred several kilometres via a single optical fiber
- ▲ Immune to electrical interference
- ▲ Complete end-to-end isolation
- ▲ Safe transmission in hazardous environments
- ▲ Small, robust and reliable

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD158T	Fiber Optic Alarm Transmitter Card, 8 channel
OSD158R	Fiber Optic Alarm Receiver Card, 8 channel
Option C	Module Version
Option L	1310nm operation single mode or multimode



SPECIFICATIONS

Capacity	8 channels
Sampling Rate	6kHz
Input Interface (OSD158T transmitter)	Buffered and protected, open/closed sensing, contact closure from IN to RTN will close alarm receiver N/O.
Input Loop Resistance	External closed loop, 400 ohms max. Each input RTN has 330 ohms internal resistance to chassis ground.
Output Interface (OSD158R receiver)	Changeover contact (1Amp @ 24V DC)
Electrical Connector	25 pin D subminiature connector
Optical Wavelength	850 ± 40nm (1310nm optional with OSD158TL)
Transmitter Optical Power	-17 to -14dBm into multimode fiber -20 to -12dBm into singlemode fiber (OSD158TL only)
Receiver Sensitivity	<-45dBm for 1 x 10 ⁻⁹ BER
Optical Link Budget	>28dB at 850nm (>8km of multimode fiber) >25dB at 1310nm (>65km of singlemode fiber)
Receiver Saturation	>-11dBm
Indicators	Power On Link Fail (OSD158R only)
Optical Connectors	ST standard
Dimensions (mm)	Small module. 104W x 144D x 25H OR OSD standard card, 208D x 100W x 25H
Weight	250g (module), 150g (card)
Power Requirements	9-40Vdc and 20-28Vac at 200mA maximum via 3 pin connector
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.20 Amp