

Fiber optic modem **SERIES SFT-D2**

SEE IT ALL

tyco PowerSeries™ **DSC**
A Tyco International Company



FEATURES

- ▶ DATA TRANSMISSION BETWEEN 2 OPTICAL INTERFACES
- ▶ SUPPORTS POWERSERIES PROTOCOL DATA EXCHANGE
- ▶ USES 2 OPTICAL MULTI-MODE FIBERS (ST CONNECTORS)
- ▶ SUPPORTS DATA TRANSMISSION UP TO 3 KM
- ▶ LED STATUS AND OPERATION INDICATION
- ▶ 12V DC POWER SUPPLY THROUGH TERMINAL BLOCKS
- ▶ (MINI)DIN ENCLOSURE

Features

PRODUCT DESCRIPTION

Description

SFT-D2 module from the SFT family of optical transceivers is intended for transmission of alarm informations using multi-mode (MM) optical fiber as a transfer medium. Transmitter and receiver from SFT-D2 series support DSC alarm central stations and devices that communicate with each other by using PowerSeries protocol.

Device has an inbuilt HFBR optical transceivers that enable connection of MM fibers with ST ending connectors. SFT-D2 needs 2 optical fibers and supports transmission lengths up to 3 km.

Power supply and serial communications are connected through serial blocks. Device is manufactured for DIN mount and is encased in non-flammable industrial plastic housing. Its small size makes it a perfect solution if mounting right into the central alarm station is needed.

On the front side of the device's housing, there are transparently placed LED indications, that offer you quick and simple insight in the basic functions of the system and the device, this LED indications also reports possible interruptions in optical link, failure of transmission equipment (both are done directly through copper connection with alarm central), presence of power supply and presence and activity of communication (exchange of protocol data).

Power supply part of the module is adjusted for direct connection to the alarm equipment (power supply DC12V). The transmission equipment is distinguished by its low power consumption . This part of the module also includes protection against connecting the wrong voltage to it.

COMPILANT WITH AL. CENTRALS

POWERSERIES Alarm Systems

PC4003C
 PC5003C
 HC-CAB1000
 HS-CAB3000
 HS-CAB4000

Compliant

ORDERING CODE

SFT - **D** **2**
Alarm Company
 D DSC (Tyco)

Compliance
 1 MAXSYS
 2 PowerSeries

Ordering code

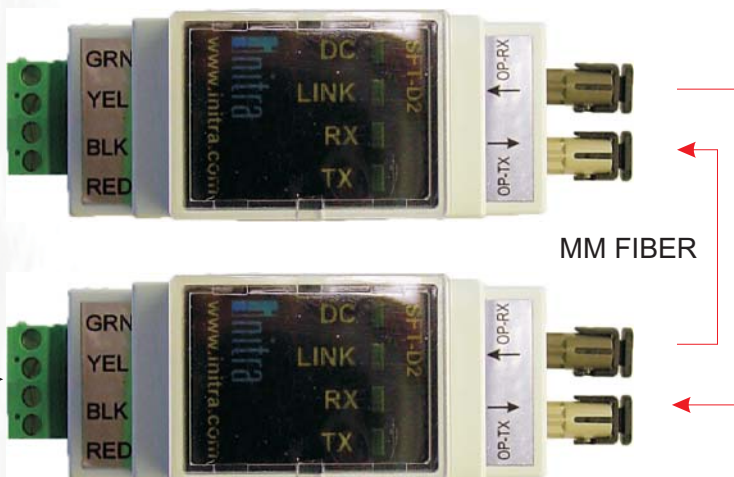
USAGE

PowerSeries Control Panels

FIBER OPTIC
REMOTE KEYPAD



DC12V



MM FIBER

DC12V



tyco / Fire & Security



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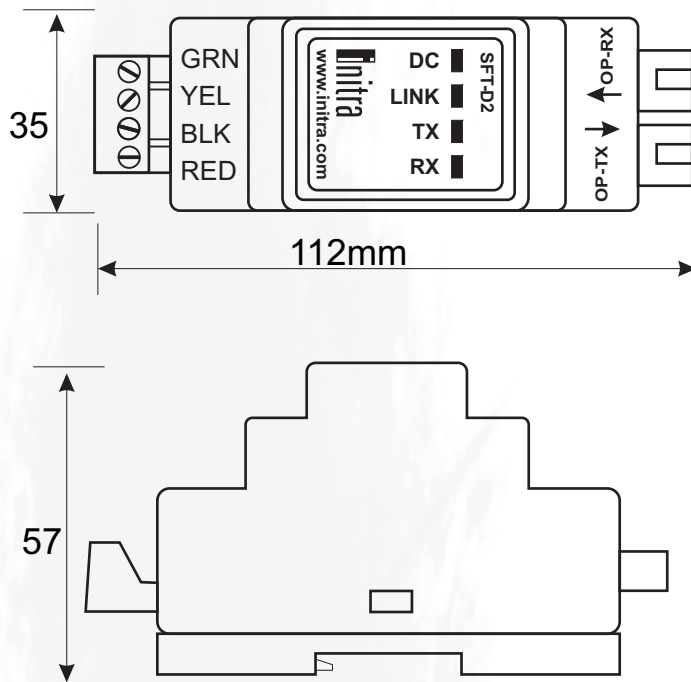
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DIMENSIONS



TECHNICAL DATA

OPTICS - TRANSMITTER - Multi Mode

PARAMETER	TYPE / CONDITIONS	MIN	TYPICAL	MAX	UNITS
Optical Connector	ST				
Mode	Multi Mode (MM)				
Output Center Wavelength			820		[nm]
Optical Power - Multi Mode	with 50 / 125 µm fibre		-15,8		[dBm]
Optical Power - Multi Mode	with 62.5 / 125 µm fibre		-12		[dBm]
Link Distance				3000	[m]
BER	Data rate <5 MBd		10 ⁻⁹		

OPTICS - RECEIVER - Multi Mode

PARAMETER	TYPE / CONDITIONS	MIN	TYPICAL	MAX	UNITS
Optical Connector	ST				
Mode	Multi Mode (MM)				
Output Center Wavelength			820		[nm]
Receiver Sensitivity			-21		[dBm]
Link Distance				3000	[m]



TECHNICAL DATA

GENERAL						
PARAMETER	TYPE / CONDITIONS	MIN	TYPICAL	MAX	UNITS	
ELECTRICAL						
Power Source	12 VDC	11	12	15	[V]	
Power Consumption			1		[W]	
ENVIRONMENTAL						
Temperature range	storage	-40		+70	[° C]	
	operating	-25		+85	[° C]	
Humidity	non - condensing	0		95	[%]	
MECHANICAL - DIN						
Dimensions	Width x Depth x Height		35x112x57		[mm]	
Case type	DIN plastic enclosure					
Case material	plastic					
Mounting	DIN rail					
Weight	unit		142		[g]	
GENERAL						
Compliances	CE					
MTBF	ground fix 45°C per MIL217F		240000		[h]	
Warranty	2 years parts and labor					

