

Fiber optic modem **SERIES SFT-D1**

SEE IT ALL

tyco

MAXSYS®

DSC®
A Tyco International Company



FEATURES

- ▶ DATA TRANSMISSION BETWEEN 2 OPTICAL INTERFACES
- ▶ SUPPORTS MAXSYS 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-D1 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 and supporting all DSC (Tyco) alarm central stations and devices that communicate with each other by using MAXSYS protocol.

Device has an inbuilt HFBR optical transceivers that enable connection of MM fibers with ST ending connectors. SFT-D1 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

All MAXSYS Series Alarm Systems

Compliance

ORDERING CODE

SFT - D 1
Alarm Company
D DSC (Tyco)

Compliance
1 MAXSYS
2 PowerSeries

Ordering code

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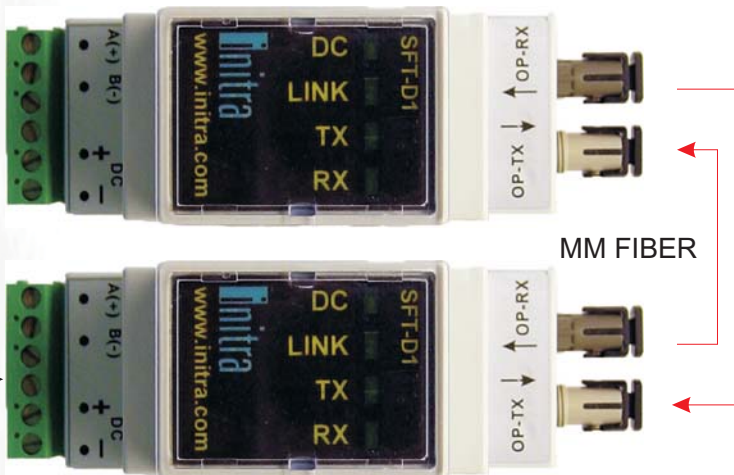
www.initra.com

USAGE

MAXSYS Control Panels
FIBER OPTIC
REMOTE KEYPAD



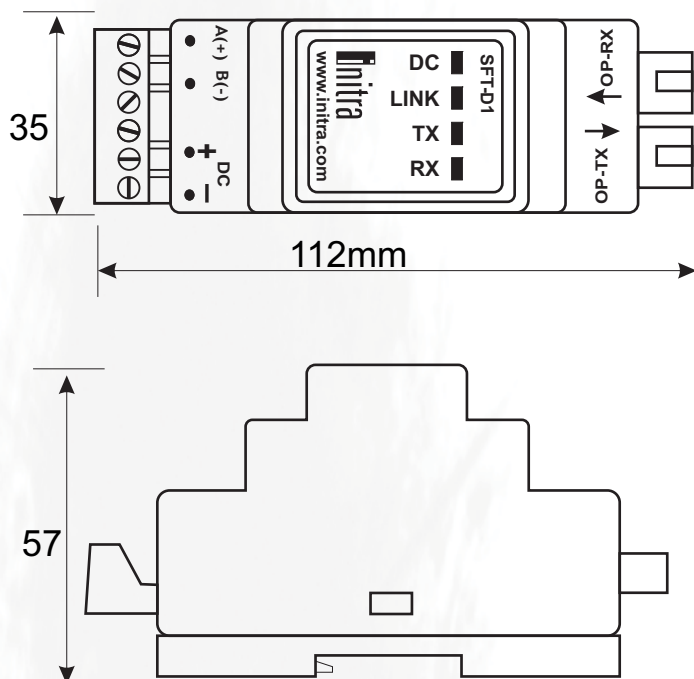
DC12V



DC12V



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 | | | | |

