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RS232/RS485/RS422 to Fiber Optic Converter, Model SC09FSS



SC09FS series of converters are an ideal choice for connecting devices situated in environments where electromagnetic & radio frequency is a major concern. They economically & efficiently extend the Serial port over a distance up to 2 Km over Multi-mode fiber or up to 100Km over Single-mode fiber. The converter is equipped with multiple interface circuit such as RS232, RS422, RS485 (2 or 4 wire). It secures data transmission at speeds up to 115.2kbps for RS232, or up to 500Kbps for RS422 / 485.

Technical Specification

Model Type	Fiber Cable	Wave Length (nm)	Tx Power db	Rx Sensitivity db	Distance
Multimode	50 / 125, 62.5 / 125, or 100 / 140µm	1310	> -10	< -18	2 Km
Singlemode	8.3 / 125, 8.7 / 125, 9 / 125 or 10 / 125µm	1310. 1550 nm for higher distance	> -8	< -20	Default : 20Km Upto 100Km options Min 1 Km

RS232 Signals : Rx, Tx, Gnd
 RS485/422 Signals : D+, D-, Tx+, Tx-, Rx+, Rx-
 Data Rate : Upto 460kbps for RS485/RS422 & 115kbps for RS232

Connector details : Multimode : SC/ST/FC, Singlemode : SC/ST/FC
 : 7 Pin Industrial Screw type for Serial Port

Connection Modes : Peer to Peer and Supports Multidrops

LED Indications : FAULT, PWR, RXD, TXD

Power Supply : 9 to 48V DC, Industrial Screw type connectors and
 : 230V External Adapter provision

Power Consumption : 350mA @ 9V DC

Reverse Polarity Protection : Yes

ESD Protection : 15KV

Surge Protection : 600W

Ambient Temp : 0 to 70°C

Humidity : 5% to 90% Rh non condensing

IP Classification : IP20

Dimension : 97mm * 65mm * 22mm (L*B*H)

Weight : 120 gm

NOTE : All Serial to Fiber Media Converters need to be used in Pairs and of the same makes

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Model Selection Chart

Model Code	: SC09FSS M/S000 ST/SC/FC 24
Basic Model	: SC09FSS
FO Mode	: M : Multi Mode, S : Single Mode
Distance for SM	: 000 : 020, 040, 050, 100 Kms. 20Km default for Singlemode
Connector	: ST : ST, SC : SC, FC : FC Type Connector
Power Supply	: 24 : Range 9 to 48V DC

Note :

3 Pin Adapter is not included as a standard supply. Need to be purchased separately
Input 230V AC, Range 110V AC to 260V AC. Output 9V DC, 1 Amp