SAN TELEQUIP

Connecting. Converting. Leading!

User Manual : Profibus to Fiber Converter,SC09FPC

The SC09FPC series is designed for use in optical Profibus-DP field bus networks. Feature with data rate up to 12M, 35mm DIN rail mounting, redundancy power input (9V~30VDC), relay output alarm.

SC09FPC1 contains one fiber optic transceiver and one electrical interface.SC09FPC2 contains two fiber optic transceivers and one electrical interface. The repeaters provide fiber optic connection in point to point, star, daisy chain topologies networks.

Electrical Interface

Signal type	: Profibus-DP
Data Rate	: 0~12M
Wire Cable Connection	: DB9 Female
Wire End Termination	: None

Optical Interface

Wave length	: MM1310nm; SM1310 nm, 1550nm
Fiber type	: multi mode 50/125 um, 62.5/125 um, 100/140um; single mode 8.3/125um, 9/125um, 10/125um
Transmission distance	: MM 2Km, SM 20Km.
Fiber interface type	: ST/SC/FC (optional); ST (standard configuration)

Relay

Contact rating	: DC30V@1A Max

Fiber link fault and No voltage input alarm
5-pin Pluggable Screw Terminal

Power

Input Voltage	: 24VDC (9VDC~30VDC)
Consumption	: ＜1.5W

5-pin Pluggable Screw Terminal
Redundant Power Input
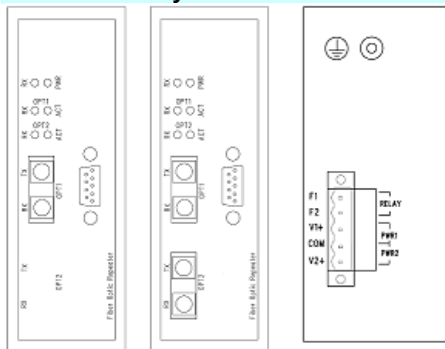With DC1000V voltage isolation and reverse polarity protection

Mechanical

Dimensions	: 132mm×52mm×105mm (H×W×D)
Casing	: IP30 protection, Metal case
Installation	: 35mm DIN-Rail, Wall Mounting.
Weight	: 800g

Environmental

Operating Temperature	: -10℃ to 70℃ (-40℃ to 85℃ optional)
Storage Temperature	: -45℃ to 85℃
Ambient Relative Humidity	: ≤90% (non-condensing)

Front Panel Layout

SC09FPC1   SC09FPC2   Top View

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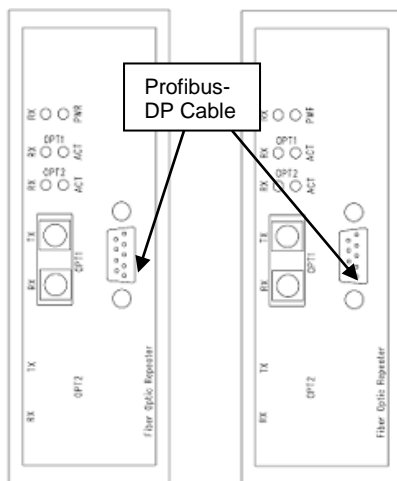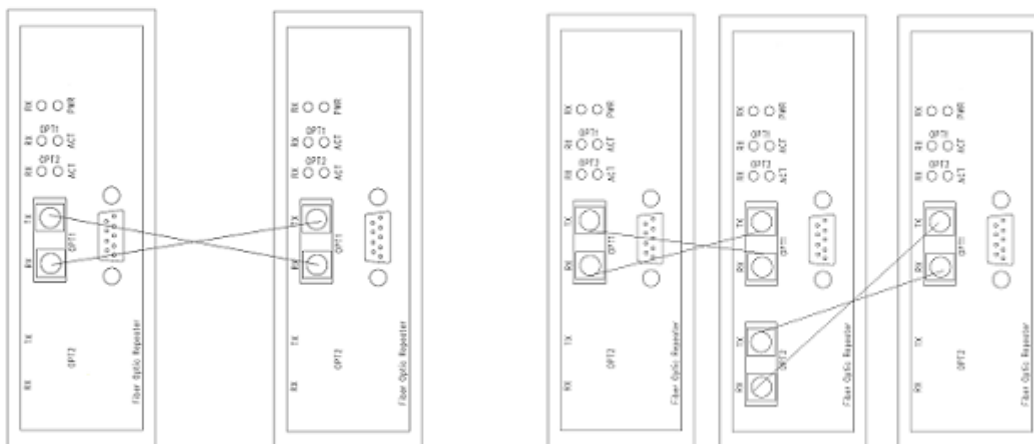### LED Indicators

Power : Green- Power On
RX : Green---Blinks with activity from wire connection.
: Off--- not connected, no signal.

Option 1
RX : Green---Blinks with activity from fiber port1 connection.
ACT : Off---fiber port1 is connected correctly.
: On--- fiber port1 is not connected correctly.

Option 2
RX : Green---Blinks with activity from fiber port2 connection.
: Off--- not connected, no signal.
ACT : Off---fiber port2 is connected correctly.
: On--- fiber port2 is not connected correctly.

Connections

Wire cable connection: Follow Profibus-DP requirements for installing TAP and drop cable.

Fiber cable connection: Connect the repeaters as shown, TX to RX, RX to TX. SC09FPC1 contain one fiber optic transceiver, SC09FPC2 contain 2 fiber ports. The repeaters provide fiber optic connection in point to point, star, daisy chain topologies networks.
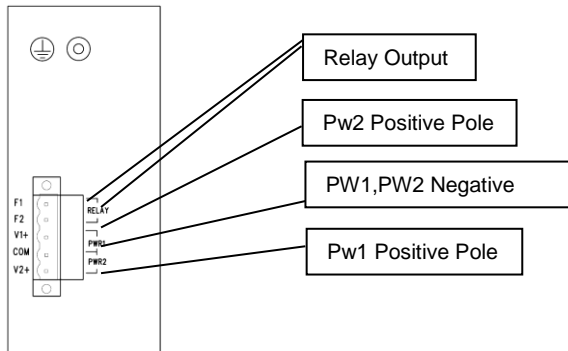

Power cable connection: Support redundant power input, V1+ and V2+ should be connected to positive input,

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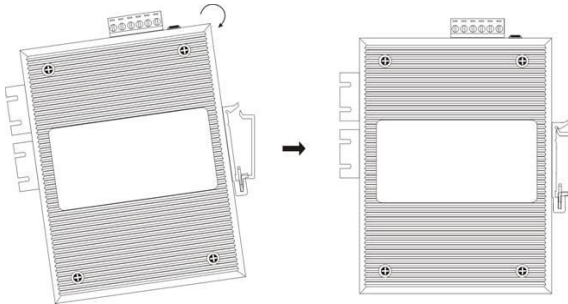
COM should be connected to negative input of power supply. The redundant power can be used single too. When either of these two powers fails, the other power acts as a backup, and automatically supplies power ensuring continuous input.

Relay contact connection: The F1 and F2 should be connected to the external device. The Relay operates on Alarm conditions and is normally OPEN

Din Rail Installation
The installation steps as follows:

Examine the DIN-Rail attachment
Examine DIN Rail whether be firm and the position be suitability or not.
Insert the top of the DIN-Rail into the slot just below the stiff metal spring.
The DIN-Rail attachment unit will insert into place as shown below.

Application Diagrams

Point to Point

Daisy Chain

Star Topology