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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

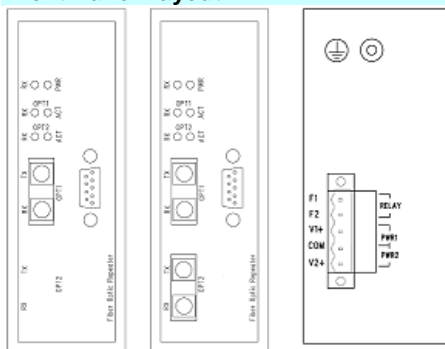
Mechanical

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

Environmental

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

Front Panel Layout



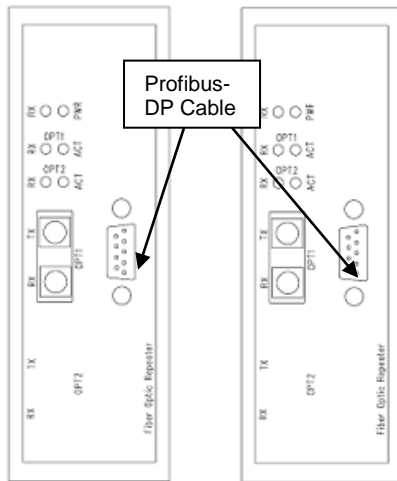
SC09FPC1 SC09FPC2 Top View

LED Indicators

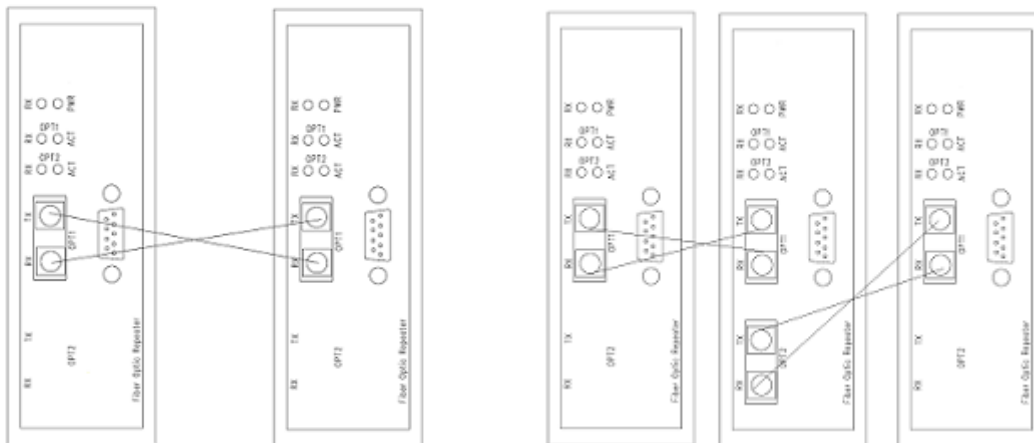
- Power : Green- Power On
- RX : Green---Blinks with activity from wire connection.
: Off--- not connected, no signal.
- Option 1**
- RX : Green---Blinks with activity from fiber port1 connection.
- ACT : Off---fiber port1 is connected correctly.
: On--- fiber port1 is not connected correctly.
- Option 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.



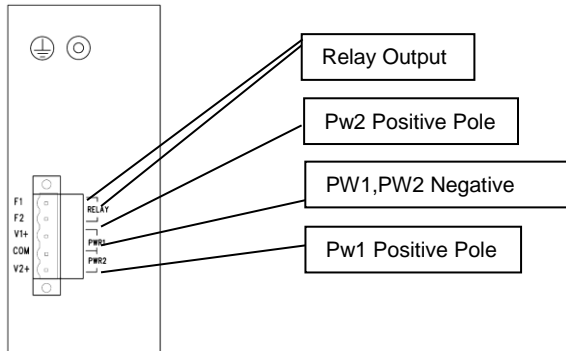
Fiber cable connection: Connect the repeaters as shown, TX to RX, RX to TX. SC09FPC1 contain one fiber optic transceiver, SC09FPC2 contain 2 fiber ports. The repeaters provide fiber optic connection in point to point, star, daisy chain topologies networks.



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

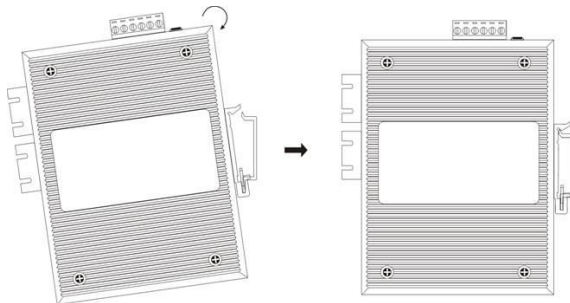
COM should be connected to negative input of power supply. The redundant power can be used single too. When either of these two powers fails, the other power acts as a backup, and automatically supplies power ensuring continuous input.

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

