

Profibus-DP to Fiber Optic Converter, Model SC09FPC



The SC09FPC series is designed for use in Profibus-DP fieldbus networks. It is packed with feature like data rate up to 6Mbps (12Mbps Optional), 35mm DIN rail mounting, Redundant Power input (9V to 30VDC), Relay output alarm etc. It contains One Fiber Optic transceiver and One electrical interface. SC09FPC-2 contains 2 (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 to 6Mbps. 12Mbps is optional
Connectors : DB9 Female
Isolation : 1 KV

Optical interface

Wave length : MM : 1310nm, SM : 1310nm and 1550nm
Fiber type : MM : 50/125um, 62.5/125um, 100/140um
: SM : 8.3/125um, 9/125um, 10/125um
Transmission distance : MM : 2Km, SM : 20Km
Fiber interface type : ST/SC/FC (optional), ST (standard configuration)
Latency : < 120nsec. Real Time performance
Transmit Power : -6.93 dBm
Rx Sensitivity : ≤ -22 dBm

Relay

Contact rating : DC30V @ 1A Max
: 5-pin Pluggable Screw Terminal
Alarms : Fiber link Fault and No Voltage input alarm

Power

Input Voltage : 24V DC @ 9VDC to 30VDC)
Power : 24V DC @ 60mA (<1.5W)
Isolation : DC 1000V
Reverse Polarity protection
Redundant supply
5-pin Pluggable Screw Terminal

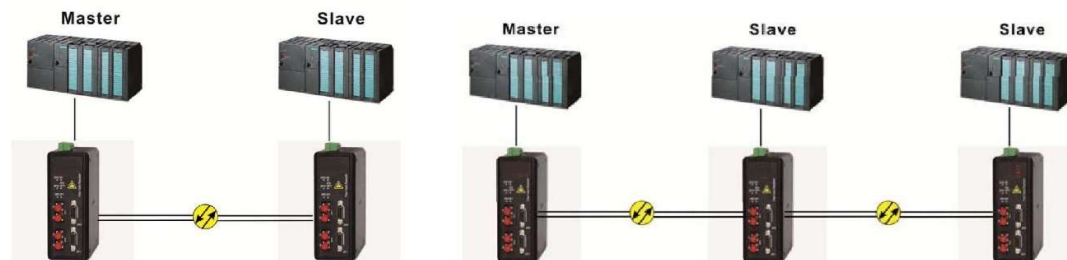
Mechanical

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

Environmental

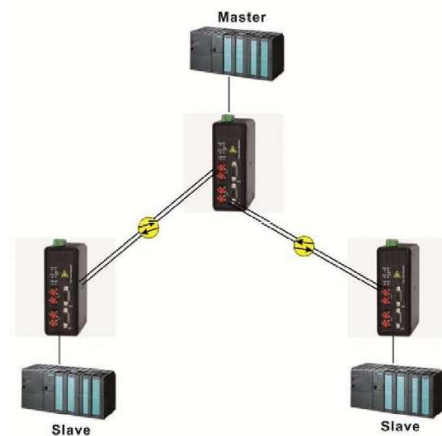
Operating Temperature : -10 to 70°C, -40 to 85°C optional
 Storage Temperature : -45 to 85°C
 Relative Humidity : ≤ 90% (non-condensing)

Application Diagram



Point to Point

Daisy Chain



Star Topology

Note : For Ring Application please refer to SC09FPCR datasheet

Product Ordering Code : SC09FPC X M/SZZZ-AA-DC

SC09FPC : Base Code for Profibus DP to Fiber
 X : 1 for 1 Fiber Port & 2 for 2 Fiber Ports
 M/S : M for MM, S for SM
 ZZZ : 020. 20Km distance is default for Singlemode
 AA : SC, ST for resp connectors
 DC : 24V DC Supply