

Model SC09FG: Genius - Fiber Optic Repeaters



The SC09FG series is designed for use in Genius Optical networks. It is packed with feature like data rate up to 153.6kbps, 35mm DIN rail mounting, Redundant power input (9V~30VDC), relay output alarm etc. It contains one fiber optic transceiver and one electrical interface. SC09FG-2 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 : GE Genius
Data Rate : 153.6kbps

Connectors : 5 Pin Screw type

Optical interface

Wave length : MM 1310, SM1310nm and 1550nm
Fiber type : MM 50/125um, 62.5/125um, 100/140um
: Single mode 8.3/125um, 9/125um, 10/125um
Transmission distance : MM 2Km, SM 20Km
Fiber interface type : ST
Latency : < 120nsec. Real Time performance
Tx Power : -6.85 dBm
Rx Sensitivity : \leq -22dBm

Relay

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

Power

Input Voltage : 24VDC (9VDC~30VDC)
Power : 24VDC@60mA (<1.5W)
Isolation : DC1000V
Redundant supply, Reverse polarity protection, 5-pin Pluggable Screw Terminal

Indicators : 6 no's. 2 each for Fiber ports, PWR and Genius Port

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 : \leq 90% (non-condensing)

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Connecting. Converting. Leading !

Model no : SC09FGC X Y ZZZ ST D

SC09FGC : Model Code for Genius to Fiber Converter
X : 1 for 1 Fiber Port, 2 for 2 Fiber Ports
Y : M for MM, S for SM
ZZZ : 020. Distance for SM. 20 Km Default for Singlemode
ST : ST Connector by default
D : 24V DC Supply

Application Diagram

