

TCC-120/120I

Isolated RS-422/485 Repeater

Features

- Boost serial signal to extend transmission distance
- Wall or DIN-Rail mountable
- Terminal block for easy wiring
- Power input from terminal block
- DIP Switch enabled built-in terminator (120 ohms)
- PWR, Tx, Rx LEDs
- Surge Protection, 16 KV ESD
- 2 KV Isolation Protection (TCC-120I)



Introduction

TCC-120I is an isolated RS-422/485 repeater designed for users who need an industrial grade interface conversion product to extend RS-422/485 transmission distance. Its superior industrial application design, which includes DIN-

Rail mounting, terminal block wiring, external terminal block power, and optical isolation for system protection, makes TCC-120I suitable for use in critical industrial environments.

Specifications

Communications

RS-422/485 Signals: Tx+, Tx-, Rx+, Rx-, Data+, Data-

RS-485 Data Direction Control: ADDC™

Baud Rate: 50 bps to 230.4 Kbps

Surge Protection: 16 KV ESD RMS, for all signals

Isolation: 2 KV (TCC-120I), Power/Signal

Environmental

Operating Temperature: -20 to 60°C

Storage Temperature: -20 to 85°C

Humidity: 5 to 95% RH

Power

Input Power Voltage:

External Power 12 to 48 VDC, Terminal Block Protection for 2 signals shorted together

Reverse Protection: V+ and V- reverse protection

Over Current Protection:

Protection for 2 signals shorted together

Power Consumption: TCC-120: 3.4 W

TCC-120I: 4.68 W

Mechanical

Dimensions (W x D x H): 67 x 100 x 22 mm

90 x 100 x 22 mm (including DIN-Rail Mounting Kit)

Case: Aluminum

Plug-in screw terminal block: #22-#16 AWG

Color: Black

Weight: 148±5g

Regulatory Approvals

CE, FCC (Class B)

Ordering Information

TCC-120: RS-422/485 Repeater; DIN-Rail Mounting Kit and Manual included

TCC-120I: Isolated RS-422/485 Repeater; DIN-Rail Mounting Kit and Manual included