

TCC-120/120I

Isolated RS-485/422 Repeater

Features

- Boost serial signal for extending 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
- Embedded Surge protection (16 KV ESD)
- Isolation: 2 KV (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 Signal: 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

Environment

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 30 VDC, Terminal Block

Reverse Protection:

Yes, V+ and V- reverse protection

Over current protection:

Yes, protection for 2 signals shorted together

Power Consumption:

TCC-120: 3.4 W

TCC-120I: 4.68 W

Mechanical

Dimensions (WxDxH):

67x100x22 mm

90x100x22 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