TCC-120 Series

Isolated Industrial RS-422/485 Converter/Repeaters

Features

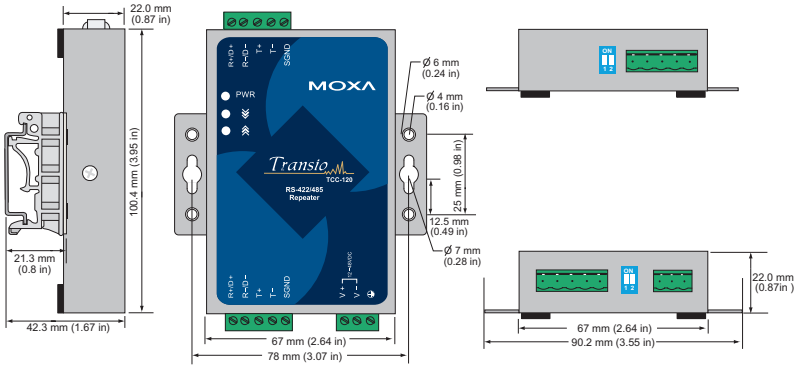
- Boost serial signal to extend transmission distance
- Wall or DIN-rail mounting
- Terminal block for easy wiring
- Power input from terminal block
- DIP switch setting for built-in terminator (120 Ω)
- Converts RS-422 to RS-485
- 2 KV isolation protection (TCC-120I)

RoHS 2 KV Isolation 15 KV ESD CE FC

Introduction

The TCC-120 is an RS-422/485 converter/repeater designed who to extend RS-422/485 transmission distance.It has a superior industrial-grade design, with DIN-rail mounting, terminal block wiring, external terminal block for power, and optical isolation for system protection (TCC-120I). For critical industrial environments, the TCC-120 is an ideal converter or repeater of RS-422 and RS-485 signals.

Dimensions (unit = mm)



Specifications

Serial Communication

RS-422/485 Signals: Tx+, Tx-, Rx+, Rx-, Data+, Data-
RS-485 Data Direction Control: ADDC™
Baudrate: 300 bps to 230.4 Kbps
Surge Protection: 15 KV ESD, 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 48 VDC; terminal block protection for 2 signals shorted together
Reverse Protection: V+ and V- reverse protection
Overcurrent Protection:
Protection for 2 signals shorted together
Power Consumption: TCC-120: 98 mA @ 12V (1.18 W)
TCC-120I: 234 mA @ 12V (2.81 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
Weight: 148 ± 5 g

Regulatory Approvals

CE Class B, FCC Class B

Warranty:

5 years

Ordering Information

TCC-120: RS-422/485 Converter/Repeater

TCC-120I: Isolated RS-422/485 Converter/Repeater

Package Checklist

- DIN-rail mounting kit and User's Manual