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, 15 KV ESD
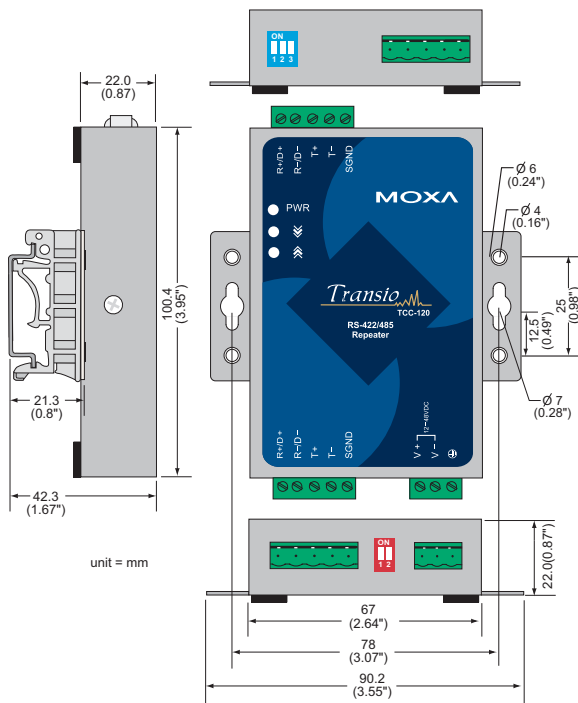- 2 KV Isolation Protection (TCC-120I)

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.

Dimensions

unit = mm

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

Specifications

Communications

RS-422/485 Signals: Tx+, Tx-, Rx+, Rx-, Data+, Data-
RS-485 Data Direction Control: ADDC™
Baud Rate: 50 bps to 921.6 Kbps
Surge Protection: 15 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: 98 mA @ 12V (1.18 W)
TCC-120I: 234 mA @ 12V (2.18 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 Class B, FCC Class B