TCF-142-M-ST FIBER OPTIC MODULE

STANDARD FEATURES

- Capability to network FireNET, FireNET Plus, and Network Annunciator using fiber optic cables.
- Extends RS-485 transmission up to 3.1 miles
- Protects against electrical interference and chemical corrosion
- No special programming required
- UL 864 9th Edition Listed

PRODUCT LISTINGS

SIGNALING
UL LISTED
S5694

California State
Fire Marshal
7300-0410-0199

DESCRIPTION

The TCF-142-M-ST Fiber Optic Module converts RS-485 networking signals to operate over fiber optic cable. FireNET, FireNET Plus, and Network Annunciator can be networked together using the TCF-142-M-ST to extend the networking distance up to 3.1 miles between (Nodes) using multimode fiber optic cabling.

SPECIFICATION

Model Name	TCF-142-M-ST
Signals for RS-485 4-wire	TxD+, TxD-, RxD+, RxD-, SGND
Signals for RS-485 2-wire	Data+, Data-, SGND
Baud rate	50 bps to 921.6 Kbps
Surge Protection	15KV ESD
Connection Type	ST
Distance	Multi-mode fiber for 5 km / 3.1 Miles
Cable Specifications	50/125, 62.5/125, or 100/140µm
Wavelength	850 nm
TX Output	> -5 dBm
Rx Sensitivity	-20 dBm
Point to Point Transmission	Half duplex
Ring Transmission	Half duplex
Operating Temperature	0 to 60°C (32 to 140°F), 5 to 93% RH
Storage Temperature	-40 to 75°C (-40 to 167°F), 5 to 93% RH
Input Power Voltage	12 to 42 VDC *(Power Limited)*
Power Line Protection	1 KV Burst (EFT), EN61000-4-4, 1 KV Surge, EN61000-4-5
Reverse Power Protection	Protects against V+/V- reversal
Over Current Protection	Protects against 2 signals shorted together: 1.1A
Power Consumption	140 mA
Dimensions	2.6" x 3.9" x 0.8"
	3.5" x 3.9" x 0.8" (included screw hole)
Material	Aluminum (0.039")
Weight	320 g

Specifications subject to change without notice.

ISO 9001:2015 CERTIFIED

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