

FOSTCDRI-Sx

Industrial Serial to Single-mode Fiber Converter



PRODUCT INFORMATION

- ✓ Data Rates up to 115.2 kbps
- ✓ 9 Mile (15 km) Range
- ✓ 10 to 48 VDC Input Voltage
- ✓ Wide Operating Temperature
- ✓ 2000V Isolation
- ✓ MODBUS ASCII/RTU Compatible
- ✓ Removable Terminal Blocks
- ✓ EMI/RFI Protection

The FOSTCDRI-Sx is our premium Serial to Single-mode Fiber Optic Converter. Designed for industry, it extends serial data range up to nine miles and provides the most versatile connection possible between any asynchronous full or half-duplex serial equipment. In addition to direct point-to-point connectivity, it is capable operating in a multi-drop mode. This allows one serial device to communicate with up to 31 others around a fiber optic ring. Since it supports mixed serial standards, you can replace other converters and isolators and add the EMI/RFI immunity inherent to fiber optic communications. Fiber optic connector options are SC (FOSTCDRI-SC) and ST (FOSTCDRI-ST)

In RS-232 mode, the FOSTCDRI-Sx supports transmit and receive data. Handshaking signals are not passed through.

B&B's Automatic Send Data Control circuit controls the RS-422/485 driver chip, eliminating the requirement for special software.

Easy to install and configure, it has a 12 position DIP Switch to set up the RS-422/485 parameters and removable terminal blocks to connect serial signals and power.

When it comes to reliable communications in harsh duty industrial environments, ILinx™ is your Number One choice.

Specifications

Serial Technology

RS-232	TD, RD, GND
RS-485 2-Wire	Data A(-), Data B(+), GND
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND
Serial Connector	Removable Terminal Block (12 to 28 AWG)
Data Rate	9.6 to 115.2 kbps
Isolation	2KV RMS, 1 minute
Surge Protection	600 W Peak Power Dissipation Clamping time < 1 pico-second
Industrial Bus	MODBUS ASCII/RTU

Fiber Optic Technology

Type / Wavelength	Single Mode / 1310 nm
Output Power	(-) 15 to (-) 8 dBm
Receive Sensitivity	Less than or equal to (-) 32 dBm
Cable	9/125 micro-meter
Connector	SC or ST (See ordering information)
Data Rate	9.6 TO 115.2 kbps
Maximum Distance	9 miles (15 km)

Power

Source	External
Input Voltage	10 to 48 VDC (Class 2)
Power Consumption	1.4 Watts
Connector	Removable Terminal Block (12 to 28 AWG)

Mechanical

LED Indicators	FO Receive, FO Transmit, Power
Dimensions	5.0 x 3.8 x 1.1 in (12.8 x 9.7 x 2.8 cm)
Enclosure	35mm DIN Mount, Plastic, IP 30
Weight	0.3 lbs (149.7 g)

Environmental

Op Temperature	- 40 to 176°F (- 40 to 80°C)
Storage Temp	- 40 to 185°F (- 40 to 85°C)
Op Humidity	0 to 95% Non-condensing

Regulatory

Approvals	FCC, CE, UL (File Number E222870)
MTBF	88423 hours
MTBF Calc. Method	Parts Count Reliability Prediction

Ordering Information

FOSTCDRI-SC	Serial to Single-mode fiber converter (SC Con)
FOSTCDRI-ST	Serial to Single-mode fiber converter (ST Con)

Accessories

MDR-20-24	24VDC DIN Rail Power Supply (not included)
7444	2 Position Terminal Block (1 included)
7466	5 Position Terminal Block (1 included)

FOSTCDRI-SM Compatibility

Due to a change in the modulation scheme, model FOSTCDRI-SM is not compatible with model FOSTCDRI-SC. Contact our Technical Support team for a warranty upgrade.

B&B ELECTRONICS