

DATASHEET

ControlNet Fiber Repeater A-CFR

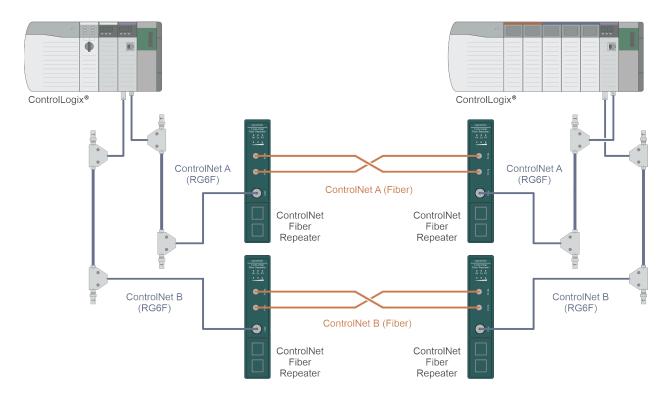
The A-CFR ControlNet Fiber Repeater extends the length of a network for a point-to-point topology while performing network media conversion from copper to fiber, and from fiber to copper.

The A-CFR can be used when a medium-distance fiber link between two ControlNet products is needed. The fiber link provides isolation between nodes and is less susceptible to a noisy environment than copper media.



Features

- A pair of A-CFR modules can be used to physically extend a ControlNet network by up to 3 km (1.86 miles) using standard industrial multi-mode fiber.
- Supports Redundant ControlNet applications by duplicating the setup.
- Supports common industrial fiber cables:
 - OM1 62.5/125 µm
 - OM2 50/125 µm
- Wide operating voltage 10 to 32 VDC
- Small form factor DIN rail mounted





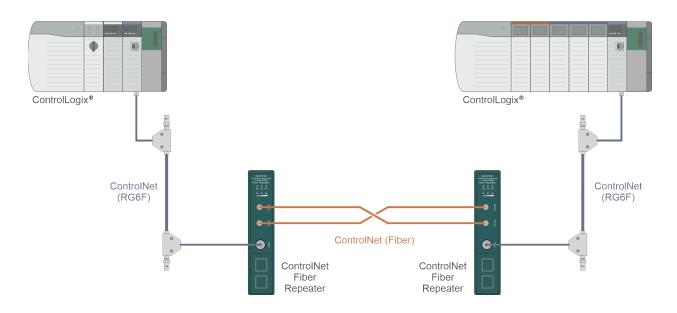


Figure 2: Non-Redundant ControlNet Media

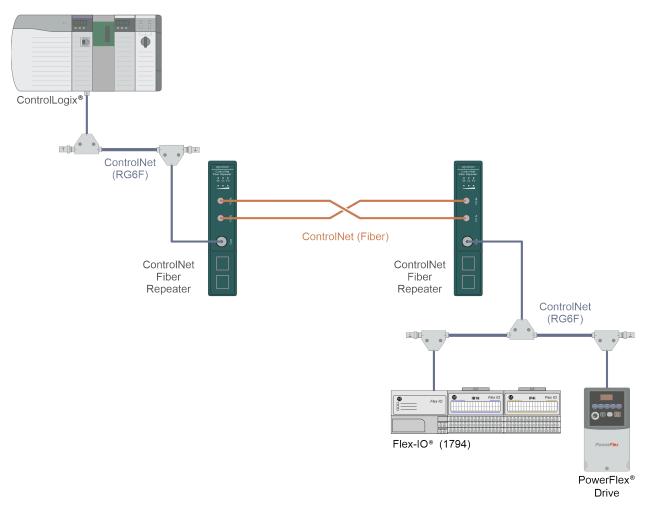


Figure 3: Other Typical ControlNet application

Specifications

ControlNet Fiber

Specification	Description
Connectors	2 x ST-Type connectors (FO-Tx and FO-Rx)
Wavelength	820 nm
Transmission Mode	Multi-mode
Supported Fiber Cables	OM1: 62.5/125 µm
	OM2: 50/125 μm
Maximum Distance	3000 m
Transmit Power (at	OM1: 62.5/125 µm
1m of fiber)	-9 dBm (max.)
	-12 dBm (typ.)
	-17 dBm (min.)
	OM2: 50/125 μm
	-12.8 dBm (max.)
	-15.8 dBm (typ.)
	-20 dBm (min.)
Optical Budget	13.0 dB (for OM1 - 62.5/125 μm)
	9.0 dB (for OM2 - 50/125 μm)

Hardware

Specification	Description
Power Supply	Input: 10 to 32 VDC, (70 mA @ 24 VDC)
Power Consumption	1.7 W (max)
Dimensions (H x W x D)	148.0 x 34.0 x 116.0 mm
Connector	3-way terminal
Conductors	24 to 18 AWG
Enclosure Rating	IP20, NEMA/UL Open Type
Temperature	0 to 70 °C
Earth Connection	Yes, terminal based
Emissions	IEC 61000-6-4
ESD Immunity	EN 61000-4-2
Radiated RF Immunity	IEC 61000-4-3
EFT/B Immunity	EFT: IEC 61000-4-4
Surge Immunity	Surge: IEC 61000-4-5
Conducted RF Immunity	IEC 61000-4-6

Agency Approvals & Certifications

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A-CFR

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