



Description

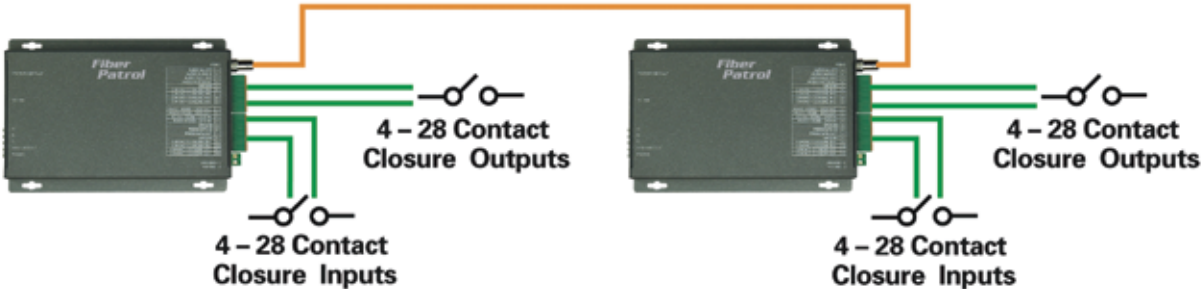
The FiberPatrol® contact multiplexers represent a new and flexible means of aggregating multiple contact inputs and outputs into a unified stream. The product line provides various options for bi-directional transmission of contact closures with 4 to 28 contact signals available through a single unit. Units are designed to meet FCC Part 15, Class B requirements for radiated emissions and feature automatically resettable polymer fuses on all power rails. As with all FiberPatrol® communication units, no optical or electrical adjustments are required. Products can be mounted in a stand alone enclosure or in the RMC Communications Chassis.

Features

- **Bi-directional transmission of contact closures**
- **Combinations of 4 to 28 closures available**
- **Opto-isolated relay outputs**
- **Single or two fiber transmission**
- **No optical or electrical adjustments required**
- **Environmentally hardened**

Bi-directional Contact Multiplexing

	FIBEROPTIC CABLE
	RG59 COAXIAL CABLE
	CAT 5E CABLE
	TWISTED PAIR



Contact/Relay

Input:	Dry Contact, TTL (5 volts max)
Output:	Opto-isolated relay 170 mA (max) @ 48 volts

Connectors

Contacts:	Spring-cage terminal block
Optical:	ST (SC optional)
Power:	Screw terminal block

Environmental

MTBF:	>100,000 hours
Operating Temperature:	-40 C to + 74 C, ambient
Storage Temperature:	-40 C to + 85 C, ambient
Relative Humidity:	0% to 95% (non-condensing)

Certifications & Compliance

Radiated Emissions:	FCC Part 15, Class B
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Electrical & Mechanical

Input Voltage:	8-18 VDC or from RMC Chassis C.T. (250 mA @ 12 VDC)
Protection:	Automatic resettable polymer fuses
Circuit Board:	Meets IPC Standard
Size (LxWxH)	
FCX0400 Models	
Stand Alone Module:	7.0 x 4.9 x 1.0 in. (17.8 x 12.4 x 2.5 cm)
RMC Module:	7.7 x 5.0 x 1.0 in. (19.6 x 12.5 x 2.5 cm)
FCM/FCD1600 Models	
Stand Alone Module:	7.0 x 4.9 x 2.0 in. (17.8 x 12.4 x 5.0 cm)
RMC Module:	7.7 x 5.0 x 2.0 in. (19.6 x 12.5 x 5.0 cm)
FCX1600, FCM/FCD2800 Models	
Stand Alone Module:	7.0 x 4.9 x 3.0 in. (17.8 x 12.4 x 7.5 cm)
RMC Module:	7.7 x 5.0 x 3.0 in. (19.6 x 12.5 x 7.5 cm)
Shipping Weight:	<2 lbs. (.9 kg)

Ordering Information

FCX, FCM/FCD Series - Fiberoptic Contact Multiplexer

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
Contact Multiplexer 4 CC IN/ 4 CC Out	FCX0412 (2 Required)	Multimode	2 (850 nm)	14	2 miles (3.5 km)	1
	FCX0431A, B		1 (1310/1550 nm)			
	FCX0452 (2 Required)	Single Mode	2 (1310 nm)	23	43 miles (69 km)	
	FCX0471A, B		1 (1310/1550 nm)			
Contact Multiplexer 16 CC IN/ 16 CC Out	FCX1612 (2 Required)	Multimode	2 (850 nm)	14	2 miles (3.5 km)	3
	FCX1631A, B		1 (1310/1550 nm)			
	FCX1652 (2 Required)	Single Mode	2 (1310 nm)	23	43 miles (69 km)	
	FCX1671A, B		1 (1310/1550 nm)			
Contact Multiplexer 16 CC IN/ 4 CC Out	FCM1612, FCD1612	Multimode	2 (850 nm)	14	2 miles (3.5 km)	2
	FCM1631, FCD1631		1 (1310/1550 nm)			
	FCM1652, FCD1652	Single Mode	2 (1310 nm)	23	43 miles (69 km)	
	FCM1671, FCD1671		1 (1310/1550 nm)			
Contact Multiplexer 28 CC IN/ 4 CC Out	FCM2812, FCD2812	Multimode	2 (850 nm)	14	2 miles (3.5 km)	3
	FCM2831, FCD2831		1 (1310/1550 nm)			
	FCM2852, FCD2852	Single Mode	2 (1310 nm)	23	43 miles (69 km)	
	FCM2871, FCD2871		1 (1310/1550 nm)			