8 Channel Contact Closure Fiber Optic Converter

FBX-CC-XXPUT-XX-1

Transmit 8 Contact Closures Over Fiber With Maximum Reliability

The RLH Contact Closure Fiber optic converter transmits 8 digital input signals over fiber optic cable. Applications include alarm event triggering, building automation, environmental control systems, fire & alarm systems, gate control, traffic signal control equipment, and more.

The Contact Closure Input device is configured with input terminals that will either sense a dry contact closure or will accept a DC Voltage Input Signal depending on model. The Contact Closure Output device has 8 output relays with normally closed and normally open terminals available for each relay. Each unit features a NC/NO alarm contact for system status monitoring and convenient LED indicators to view system status.

This hardened, rugged system is designed for standard T35 DIN rail mount or wall mount applications. The 8 Channel Contact Closure Fiber Optic Converter is designed, engineered and assembled in the USA. It is covered by our Lifetime Warranty.
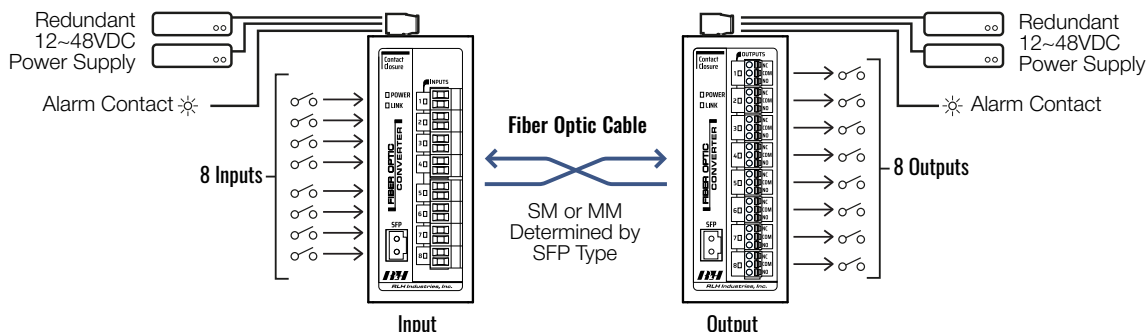

8 Channel Contact Closure Fiber Optic Converter Input & Output

Features

System

- Inputs are available with Dry contact sensors or Voltage sensing (wet) inputs
- Each Input is optically isolated for maximum protection
- Output relays can be wired either normally open or normally closed
- Alarm contact for system status monitoring
- Compatible with all MSA compliant Gigabit SFP
- Convenient LED status indicators

Environment

- Hardened to operate in -40°C to +70°C (-40°F to +158°F)
- DIN rail or Wall Mount (Wall Mount ears included)

Power

- Each output relay is rated for 60 Watts
- Redundant Power Inputs (12~48VDC)

Quality

- Designed, Engineered and Assembled in the USA
- Covered by our Lifetime Warranty

Application

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System Specifications

Inputs 1~8:	**Model: FBX-CC-INPUT-DR-1**	Dry (0-100 ohms) contact closure
	Model: FBX-CC-INPUT-05-1	Wet 5V (3.3~10VDC / 5mA) contact closure
	Model: FBX-CC-INPUT-24-1	Wet 12/24V (8~27VDC / 5mA) contact closure
	Model: FBX-CC-INPUT-48-1	Wet 24/48V (20~52VDC / 5mA) contact closure
	Optical Isolation	3.5kV

Outputs 1~8:	**Model: FBX-CC-OUTPUT-1**	**Relay Type**	Mechanical, SPDT Relay, Form C
		Max. Power	60W / 125VA
		Max. Voltage	220VDC / 250VAC
		Max. Current	2A AC/DC

System Response Time:	5ms typical, 10ms maximum

General Specifications

Fiber Port:	1 Gigabit SFP Slot, Accepts MSA compliant 1.25Gbps SFPs (Sold separately)	
LED Indicators:	Power, Fiber, Input/Outputs 1~8	
Power Input:	Standard Models	12~48VDC (11~53V) (See ordering information for Wet Contact Input Voltage Range)
	-A powering option	125VDC (42~160V) (See ordering information for Wet Contact Input Voltage Range)
	Dual redundant power options - Polarity insensitive	
Power Consumption:	Input Module	8 Watts Maximum
	Output Module	8 Watts Maximum
DC Input Isolation (In/Out):	1.5KV	
Overcurrent Protection:	1.0A	Automatic Recovery
System Alarm:	Normally Open / Closed Relay	
Temperature:	Storage	-40℃ to +85℃ (-40℉ to +185℉)
	Operating	-40℃ to +70℃ (-40℉ to +158℉)
Humidity:	95% non-condensing	
Dimensions:	(W) 2.2" x (D) 4" x (H) 5.2", (56mm x 102mm x 131mm) *Not including DIN clip	
Weight:	1.6 lbs. (0.73kg)	
Mounting:	Includes standard T-35 DIN rail clip and wall mount ears	
Compliance:	NDAA, TAA, FCC Class A, CE, RoHS and Reach	
Warranty:	Lifetime - Visit www.fiberopticlink.com for warranty information and coverage details	

RLH Certified Transceivers

Description	Mode	Conn.	Distance	Fibers	Wavelength	Part Number
Multimode, LC, 550m/1804 feet, Dual Fiber, 850nm	MM	LC	550m/1804 feet	Dual Fiber	850nm	**SFP-1G-03-2**
Multimode, LC, 2km/1.2 miles, Dual Fiber, 1310nm	MM	LC	2km/1.2 miles	Dual Fiber	1310nm	**SFP-1G-04-2**
Singlemode, LC, 20km/12.4 miles, Dual Fiber, 1310nm	SM	LC	20km/12.4 miles	Dual Fiber	1310nm	**SFP-1G-30-2**
Singlemode, LC, 60km/37 miles, Dual Fiber, 1550nm	SM	LC	60km/37 miles	Dual Fiber	1550nm	**SFP-1G-31-2**
Singlemode, LC, 120km/74 miles, Dual Fiber, 1550nm, with Digital Diagnostic Monitoring	SM	LC	120km/74 miles	Dual Fiber	1550nm	**SFPD-1G-34-2**
Singlemode, LC, 20km/12.4 miles, Single Fiber – Side A, Tx1310/Rx1550	SM	LC	20km/12.4 miles	Single Fiber Side A	T-1310/ R-1550	**SFP-1G-20-2**
Singlemode, LC, 20km/12.4 miles, Single Fiber – Side B, Rx1310/Tx1550	SM	LC	20km/12.4 miles	Single Fiber Side B	T-1310/ R-1550	**SFP-1G-21-2**
Singlemode, LC, 60km/37 miles, Single Fiber – Side A, Tx1310/Rx1550, with Digital Diagnostic Monitoring	SM	LC	60km/37 miles	Single Fiber Side A	T-1310/ R-1550	**SFPD-1G-24-2**
Singlemode, LC, 60km/37 miles, Single Fiber – Side B, Rx1310/Tx1550, with Digital Diagnostic Monitoring	SM	LC	60km/37 miles	Single Fiber Side B	T-1310/ R-1550	**SFPD-1G-25-2**

- Single fiber (bi-directional) SFP transceivers must always be paired, side A and side B

Ordering Information

Description	Part Number
8 Channel Contact Closure Fiber Optic Converter, Dry Contact Inputs, 1 SFP Slot, Powered by 12~48VDC	**FBX-CC-INPUT-DR-1**
8 Channel Contact Closure Fiber Optic Converter, 5VDC Wet Inputs, 1 SFP Slot, Powered by 12~48VDC	**FBX-CC-INPUT-05-1**
8 Channel Contact Closure Fiber Optic Converter, 12-24VDC Wet Inputs, 1 SFP Slot, Powered by 12~48VDC	**FBX-CC-INPUT-24-1**
8 Channel Contact Closure Fiber Optic Converter, 24-48VDC Wet Inputs, 1 SFP Slot, Powered by 12~48VDC	**FBX-CC-INPUT-48-1**
8 Channel Contact Closure Fiber Optic Converter, Dry Contact Output, 1 SFP Slot, Powered by 12~48VDC	**FBX-CC-OUTPUT-1**

- A complete system requires **TWO** units
- Add **-A** to the end of the part number for 125VDC powering option

Contact

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