RLH Industries, Inc.

DATA SHEET

4 Channel Bi-Directional Contact Closure DIN Fiber Link System

SFP OPTICS, COMPACT, & RUGGED

The system provides transmission of four (4) independent input signals on each end over fiber optic cable in both directions. Applications include alarm event triggering, building automation, environmental control systems, fire & alarm systems, gate control, traffic signal control equipment, and more. A complete system requires two (2) units, a 24-48VDC or high range 125VDC (depending on model) power source for each unit, and two (2) matching SFP Transceivers.

Each unit features four (4) input terminals, four (4) output relays, a NC/NO alarm contact for system monitoring, and convenient LED indicators to view system status. This hardened, rugged system is designed for standard T35 DIN rail mount applications, and is covered by our Limited Lifetime Warranty.

4 Channel Bi-Directional Contact Closure

Key Features

Environment

Hardened to operate in -40°F to +158°F (-40°C to +70°C)
Compact DIN (T35) rail mount enclosure

Power

24-48DC or 125VDC for each unit, depending on model
Redundant power inputs with polarity reversal protection, 1.5kV isolation
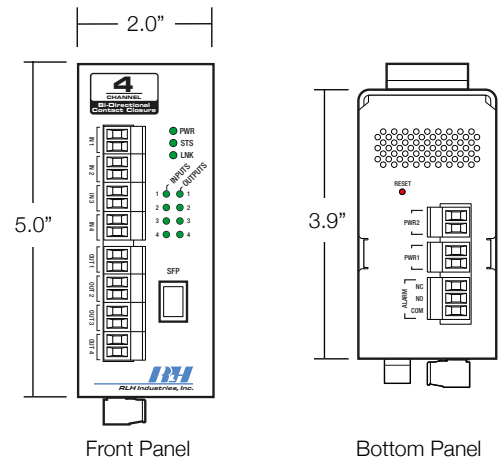
Application

SFP transceiver interface
Each output relay is rated for 60 Watts. (Available with NO or NC relays)
Inputs either sense a dry contact or digital inputs
Each Input is optically isolated, 3.5kV
Both sides include alarm contacts for status monitoring
Convenient LED status indicators
Pluggable terminal blocks
Critical, high voltage, remote or un-manned locations operating 24/7/365

Quality

Made in the USA and covered by our **Limited Lifetime Warranty**

2.0"

5.0"

3.9"

Front Panel   Bottom Panel

Dimensional Information

Ordering Information

Each 8 Channel Contact Closure DIN Fiber Link unit is identified with a part number.

Description	Output Options	Input Options	Part Number
4 Channel Bi-Directional Contact Closure Unit	Normally Open	DRY	**BIO-DR-NO-2**
		WET (12~24VDC)	**BIO-24-NO-2**
		WET (24~48VDC)	**BIO-48-NO-2**
	Normally Closed	DRY	**BIO-DR-NC-2**
		Wet (12~24VDC)	**BIO-24-NC-2**
		Wet (24~48VDC)	**BIO-48-NC-2**

▶ A complete system requires two (2) Fiber Link units.

▶ Add **-A** to the end of the part number for 125VDC input power option.

▶ SFP Transceivers are sold separately. A list of compatible RLH Certified SFP's is listed at www.fiberopticlink.com.

▶ Please contact your RLH sales representative for pricing and delivery information.

General Specifications

Fiber Connector Type	SFP Transceiver
Compatibility	RLH Certified 155Mbps SFP's
LED	PWR, STS, LNK, and Inputs 1~4 and Outputs 1~4
Power Input	24-48VDC (22~56V) Polarity Insensitive
	-A 125VDC (46~150V)
	-B 12VDC (11~30V)
	Dual redundant power inputs
Power Consumption	6 Watts Max.
Wire Connectors	Screw down terminal block, 16~26AWG
Inputs 1~4	**Dry** (0-100 ohms)
	Wet (12~24VDC / 5mA) Optical isolation 3.5kV
	Wet (24~48VDC / 5mA)
Outputs 1~4	Relay Contacts

Output Relay Contacts Maximum Rating			
	115VAC	1.087A	125VA
	12VDC	3.000A	36 Watts
	24VDC	2.500A	60 Watts
	48VDC	1.250A	60 Watts
	130VDC	0.462A	60 Watts
	250VDC	0.240A	60 Watts

System Alarm Output	Normally Open / Closed Relay
Relay Response Time	5ms typical, 10ms maximum
Surge Protection	Varistors, Automatic resettable fuses
DC Input Isolation	1.5kV
Construction	Powder coated steel and aluminum alloy
Mounting Style	Standard DIN rail (TS-35) mount
Temperature	Operating -40℃ ~ 70℃ (-40℉ ~ 158℉)
Humidity	95%
Dimensions/Mounting	H 4.93" x W 2.0" x D 3.93" (not including DIN clip or pluggable connectors)
	Standard T-35 DIN rail mounting
Weight	1.4 lbs (0.63kg)
Warranty	Limited Lifetime *Visit* www.fiberopticlink.com *for warranty details*