



RLH Industries, Inc.

DATA SHEET

The leader in rugged fiber optic technology.

DS-045 2019A-1017

4 Channel 4~20mA DIN Fiber Link System

The 4 Channel 4~20mA / 0~10VDC Analog Data DIN Fiber Link system provides a transmission of up to four independent analog signals over one optical fiber. This system is designed to operate in harsh industrial environments and is temperature hardened for reliability. RLH DIN Fiber Link products are made in the U.S.A and are covered by our **Limited Lifetime Warranty**.



4 Channel 4~20mA RX DIN Fiber Link

Key Features

Environment

Hardened to operate in -40°F to +158°F (-40°C to +70°C)

Power

Uses 24~56VDC local power source

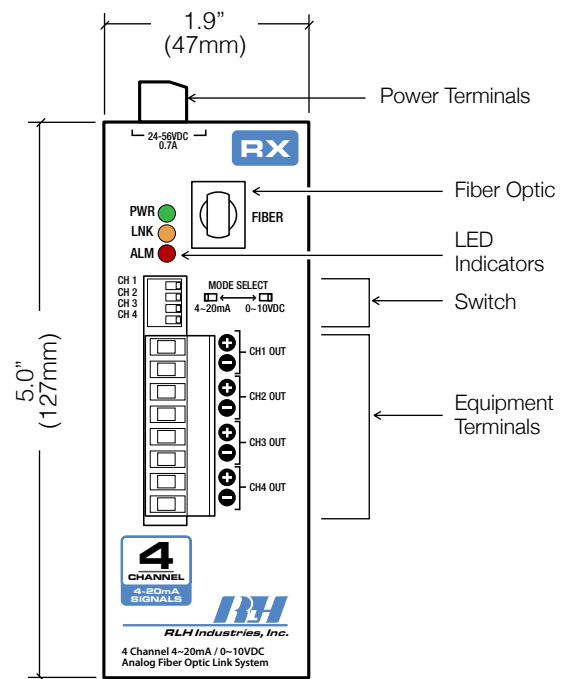
Application

- Available with ST or SC connectors for single or multi-mode fiber
- 4 channels over a single fiber
- Convenient LED status indicators
- Input and output may be individually configured
- Critical, high voltage, remote or un-manned locations operating 24/7/365

Quality

Made in the USA

Covered by our **Limited Lifetime Warranty**



RX Side Unit

Feature & Dimensional Information

Ordering Information

Optics	Description	Distance	Fiber	Part Number
Multimode SC	TX Card	2km / 1.2 mi.	62.5/50 μm	420-01-1
	RX Card	2km / 1.2 mi.	62.5/50 μm	420-02-1
Multimode ST	TX Card	2km / 1.2 mi.	62.5/50 μm	420-03-1
	RX Card	2km / 1.2 mi.	62.5/50 μm	420-04-1
Single-mode SC	TX Card	15km / 9 mi.	8~9 μm	420-10-1
	TX Card	48km / 29 mi.	8~9 μm	420-11-1
	RX Card	15km / 9 mi. & 48km / 29 mi.	8~9 μm	420-12-1
Single-mode ST	TX Card	15km / 9 mi.	8~9 μm	420-20-1
	TX Card	48km / 29 mi.	8~9 μm	420-21-1
	RX Card	15km / 9 mi. & 48km / 29 mi.	8~9 μm	420-22-1

- ▶ A complete system requires 1 **TX** unit and 1 **RX** unit
- ▶ Please contact your RLH sales representative for pricing and delivery information

General Specifications

Transmission method	Frequency modulated light via a single optical fiber	
	Multimode:	850nm
	Single-mode:	1310nm
	Single-mode Long Haul:	1310nm
Maximum Fiber Attenuation / Distance*	Multimode:	6dB / 1.2 miles (2km)
	Single-mode:	8dB / 9 miles (15km)
	Single-mode Long Haul:	24dB* / 29 mi. (48 km), min. required loss *-8dB
	*Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.	
Fiber Type	ST or SC connectors	
	Multimode:	62.5/125μm, 50/125μm
	Single-mode:	8-9/125μm
Wire Connector	Screw clamp terminal blocks, 16 ~ 26 AWG	
Input 1-4 (TX Card)	4~20mA current loop or 0~10VDC	
Output 1-4 (RX Card)	+/- 2% accuracy 500 Ohm maximum loop resistance	
Response Time	10ms	
Surge Protection	PTC thermistors, zener diodes and varistors	
Power Requirements	TX Module	24-56VDC, 2.5W max.
	RX Module:	24-56VDC, 60mA minimum
Powering Method	Local DC power source	
Operating Temperature	-40° to +158° F (-40° to +70° C), 95% non-condensing	
Dimensions	H5" x W1.9" x D3.9" (127mm x 48mm x 100mm) - Not including connectors	
Warranty	Limited Lifetime	Visit www.fiberopticlink.com for warranty details