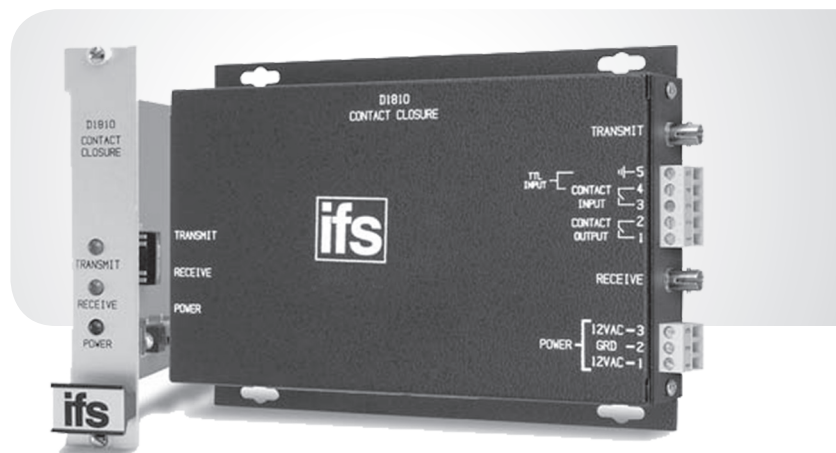


D1810 Series

IFS Bi-Directional Contact Closure Transceiver



OVERVIEW

The IFS D1810 Series contact closure transceiver provides one-way or bi-directional transmission of contact closure over one or two multimode optical fibers. The transceiver has a contact input and a 0.5amp contact output. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and transmit/receive status indicating LED's for monitoring confirmation of contact closure. The modules are available in either stand-alone or rack mount versions.

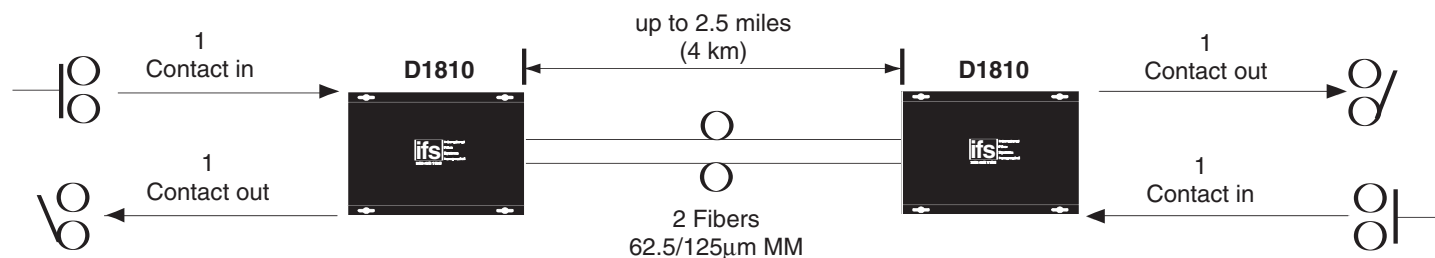
APPLICATION EXAMPLES

- Alarm Event Triggering
- Building Automation and Environmental Control Systems
- Fire & Alarm Systems
- Gate control
- PIR signal Transmission
- Traffic Signal Control Equipment

STANDARD FEATURES

- Transmits a Single Contact Closure in One or Two Directions
- Distances up to 2.5 Miles (4 km)
- 24 VDC, 0.5 Amp Relay Output, Normally Open
- Point-to-Point Transmission Architecture
- Tested and Certified by an Independent Testing Laboratory for Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- No In-field Electrical or Optical Adjustments Required
- Power, Transmit and Receive Status LED Indicators
- Hot-Swappable Rack Modules
- Automatic Resettable Solid-State Current Limiters
- Contact Input
- Comprehensive Lifetime Warranty

SYSTEM DESIGN



D1810 Series

IFS Bi-Directional Contact Closure Transceiver

North America
T 855-286-8889

Latin America
T 561-998-6114

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	D1810	Bi-Directional Contact Closure Transceiver (850 nm)	2	14 dB	2.5 miles (4 km)
Accessories □	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
Options	Add '-R3' to Model Number for R3 Rack Mount (Requires R3 Rack purchased separately)				

*Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. **For 50/125 Fiber, subtract 4 dB from Optical Power Budget.

□ All accessories are third party manufactured.

Specifications

Data

Contact Interface:	Response Time: 0.5 msec
Input:	Dry Contact closure
Output	SPST Relay, 0.5 A Contact rating, normally open

Wavelength

850 nm, Multimode

Number Of Fibers

2

Connectors

Optical:	ST
Contacts and Power:	Terminal Plug with screw clamps

Electrical & Mechanical

Power:	
Surface Mount:	12VDC @ 200mA
Rack:	From Rack
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm
Rack Mount:	7.0 x 4.9 x 2.0 in., 17.8 x 12.5 x 5.0 cm.
Shipping Weight:	< 2 lbs./0.9 kg

Environmental

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

Agency Compliance

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J



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Specifications subject to change without notice.

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D1810