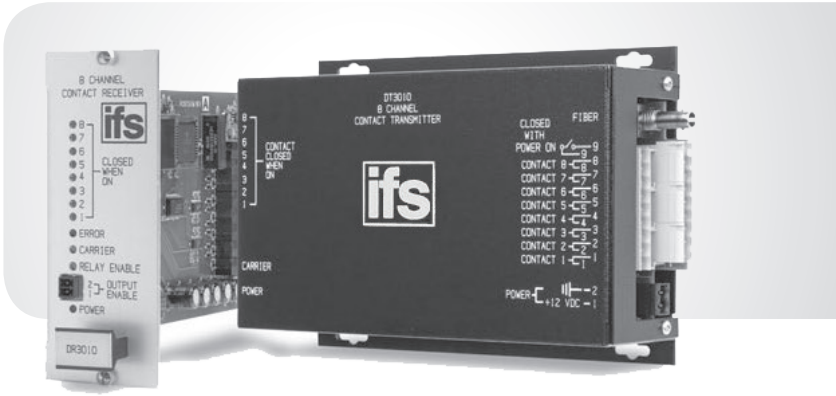
DT/DR3000 Series

8-Channel Contact Mapping Transmitters and Receivers



OVERVIEW

The IFS DT/DR3000 Series contact mapping transmitter and receiver provides transmission of up to eight independent contact closures over one optical fiber. Utilizing micro processor-based logic for exceptionally robust communications channel redundancy, and a trickle-charged nickel-cadmium (NiCd) battery back-up memory within the receiver module, the DT/DR3000 Series eliminates the possibility of any of the relay contacts returning to a random resting state in the event of an optical fiber breakage or loss of prime operating power at the receiver end of the link. Models within this series are available for use with multi mode or single mode optical fiber. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each module incorporates power and individual status indicating LED's for monitoring confirmation of contact closure of each of the eight channels. The modules are available in either stand-alone or rack mount versions.

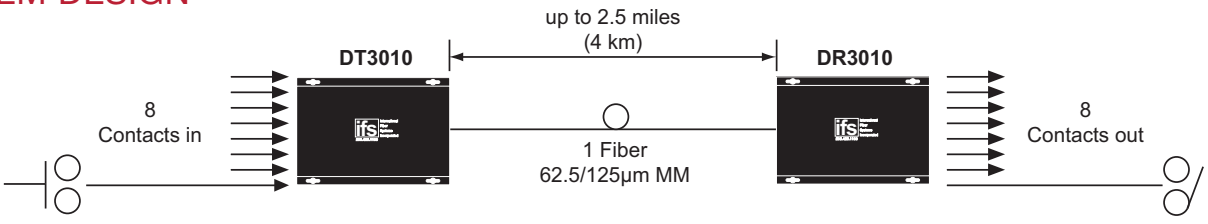
STANDARD FEATURES

- Transmits Up to Eight Contact Closures Over One Fiber
- Eight Channel Point-to-Point Transmission Architecture
- Power and Eight Individual Channel Status LED Indicators
- Eight SPST Reed Relays (with individual indicators)
- Exceeds the Environmental Requirements of NEMA TS-1/TS-2 & Caltrans Specifications (Temperature/Humidity, Shock/Vibration, and Voltage Transient Protection) for Traffic Control Equipment
- Microprocessor-based logic and battery back-up in receiver unit eliminate random contact closure status in the event of loss of optical fiber path or loss of prime operating power
- Loss of Carrier Relay for Alarm Notifications
- Relay Contact Rating: 200VDC, 0.5Amps, Normally Open
- No In-field Electrical or Optical Adjustments Required
- Automatic Resettable Solid-State Current Limiters
- Hot-Swappable Rack Modules
- Distances up to 25 Miles (40km)
- Comprehensive Lifetime Warranty

APPLICATION EXAMPLES

- Alarm Event Triggering
- Building Automation & Environmental Control Systems
- Lane/Gate Control
- Fire & Alarm Systems
- PIR Signal Transmission

SYSTEM DESIGN



DT/DR3000 Series

8-Channel Contact Mapping Transmitters and Receivers

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**	DT3010	Contact Mapping Transmitter (850 nm)	1	13 dB	2.5 miles (4 km)
	DR3010	Contact Mapping Receiver (850 nm)	1	13 dB	2.5 miles (4 km)
	DT3020	Contact Mapping Transmitter (1310 nm)	1	13 dB	8 miles (13 km)
	DR3020	Contact Mapping Receiver (1310 nm)	1	13 dB	8 miles (13km)
Single Mode 9/125µm	DT3025	Contact Mapping Transmitter (1310 nm)	1	14 dB	25 miles (40 km)
	DR3030	Contact Mapping Receiver (1310 nm)	1	14 dB	25 miles (40 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- No Charge (Requires R3 Rack purchased separately)				
	Add '-B' for DR Battery Backup				

*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	
Input/Output Channels:	8
Contacts:	200 VDC, 0.5 amp, 12 watts, normally open
Response Time:	25 msec maximum
Wavelength	
DT3010, DR3010:	850 nm, MM
DT3020:	1310 nm, MM
DT3025, DR3030:	1310 nm, SM
DR3030	1310 nm, MM or SM
Number Of Fibers	
	1
Connectors	
Contacts and Power:	Terminal Plug with screw clamps
Optical:	ST or FC (see ordering information)
Electrical & Mechanical	
Power:	
Surface Mount:	12 VDC @ 150 mA
Rack:	From Rack
Number of Rack Slots:	2
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 2.0 in., 17.8 x 12.5 x 5.0 cm
Rack Mount:	7.0 x 5.0 x 2.0 in., 17.8 x 12.7 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*
Operating Temp:	-10° C to +45° C[s]
Storage Temp:	-20° C to +35° C[s]
Relative Humidity:	0% to 95% (non-condensing)

* W/O Battery [s] W/ Battery

Agency Compliance

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

FCC PART 15 COMPLIANT CE c UL us

interlogix
United Technologies

interlogix.com

Specifications subject to change without notice.