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## 251D

Single-Channel Contact Closure

### Overview

The 251D fiber links transmit a single channel of switch/status information or control-function signals over one multimode fiber.

### Programmable Outputs

Outputs are Normally Open (NO) and Normally Closed (NC) reed relays. A complete system consists of a transmitter and a receiver, configured as standalone units or as rack cards.

### Superior Diagnostics

The SMARTS™ diagnostic technology provides system status LEDs that monitor the status of the data path and the optical signal.



### Standard Features

- One-way transmission over one multimode fiber
- Single-channel contact closure
- FM transmission
- Operates up to 3.2 miles (5.2 km)
- 13 dB optical budget
- Optical AGC
- SMARTS™ diagnostics
- Standalone and rack configurations



# 251D

## Single-Channel Contact Closure

### Specifications

#### Data

- Channels: 1 simplex
- Formats: Contact Closure
- Baud Rate: 200 bps
- Contact Closure to Relay Output Time: 5 ms
- Operating Mode: Asynchronous
- Relay/Contact Rating: 1 A @ 30 VDC
- Bit Error Rate: <1.0E-9

#### Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: LED
- Wavelength: 850 nm
- Operating Distance: 3.2 mi (5.2 km)
- Transmitter Launch Power: -15 dBm
- Receiver Sensitivity: -28 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

#### Electrical

- Input Power: 12 - 16 VAC or 13.5 VDC regulated (standalone); 13.5 VDC regulated (rack)
- Current Requirement: 75 mA
- Power Consumption: 1 W
- Power Factor: 1
- Protection: Solid-state short circuit protection
- Power Supply: Model 610P (AC) or Model 613P (DC) (optional)

#### Environmental

- Operating Temperature: -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity: 95% relative, noncondensing

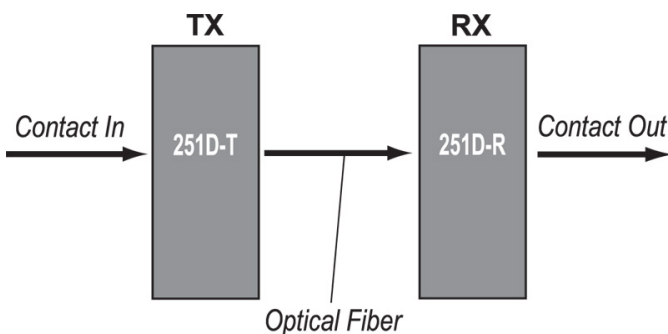
#### Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95
- Laser Safety: 21CFR1040, EN60825-1, -2

#### Mechanical

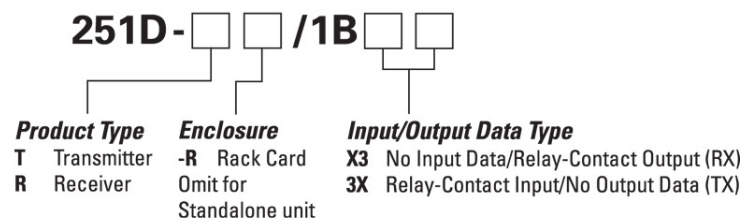
- Dimensions (LWD), Standalone Units: 3.75" x 2.81" x 1.10"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 0.26 lbs (0.12 kg); rack 0.51 (0.23 kg)
- Construction: Aluminum

### Related Diagram



### Ordering Information

Use the Configurator below to select the options available for this product.



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