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## **2250D**

*16-Channel Contact Closure/TTL Data*

### **Overview**

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The 2250D fiber links transmit up to 16 channels of low-speed digital data, switch/status information, or control-function signals over one single-mode fiber.

### **Programmable Outputs**

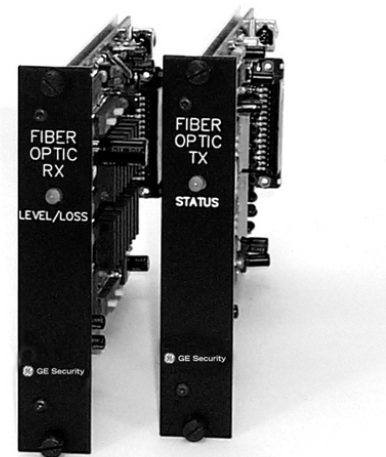
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Using microprocessor technology, the user may program the receiver to provide 16 channels of alternate-action outputs, or 16 channels of momentary outputs, or eight channels of each type. Outputs are TTL drivers and Normally Open (NO) relays. A complete system consists of a transmitter and a receiver, configured as standalone units or as rack cards.

### **Superior Diagnostics**

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



### **Standard Features**

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- **One-way transmission over one single-mode fiber**
- **16 contact closure or TTL channels**
- **FM transmission**
- **Operates up to 20 miles (32 km)**
- **13 dB optical budget**
- **Optical AGC**
- **SMARTS™ diagnostics**
- **Standalone and rack configurations**



# 2250D

## 16-Channel Contact Closure/TTL Data

### Specifications

#### Data

- Channels: 16 simplex
- Formats: Contact Closure, TTL
- Baud Rate: 200 bps
- Contact Closure to Relay Output Time: 5 ms
- Operating Mode: Asynchronous
- Relay/Contact Rating: 0.5 A @ 200 VDC
- Bit Error Rate: <1.0E-9

#### Optical

- Mode: Single Mode
- Optical Budget: 13 dB
- Emitter: Laser
- Wavelength: 1310 nm
- Operating Distance: 20 mi (32 km)
- Transmitter Launch Power: -19 dBm
- Receiver Sensitivity: -32 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: 300 mA
- Power Consumption: 4 W
- Power Factor: 3
- 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

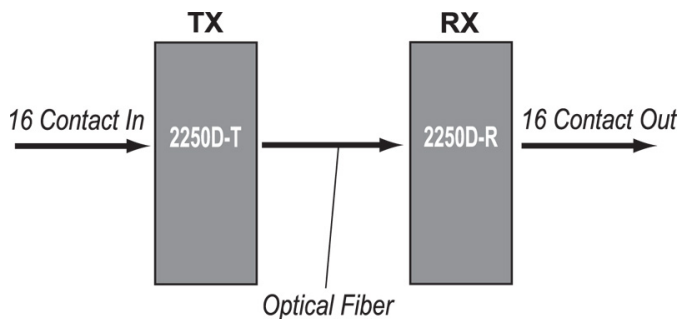
#### Standards

- 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

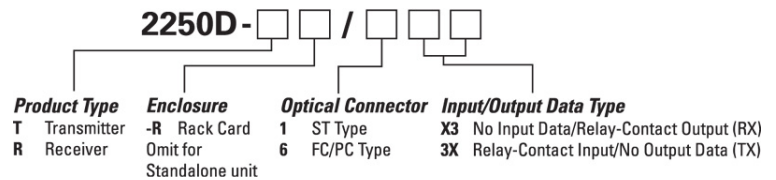
- Dimensions (LWD), Standalone Units: 9.31" x 6.33" x 1.15"
- Weight: Standalone 1.27 lbs (0.58 kg); rack 0.66 (0.30 kg)
- Construction: Aluminum
- Dimensions, Rack Units: 1 slot (1.0")

### Related Diagram



### Ordering Information

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



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