

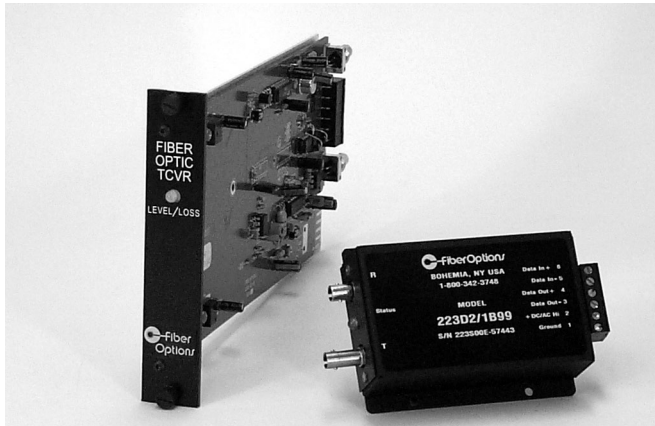


GE Interlogix Fiber Options

223D



Protocol B Data Interface



Product Specification

Features

- ✓ Two way data transmission
- ✓ SMARTS™ Diagnostics
- ✓ Optical AGC circuitry
- ✓ Operates up to 3.2 mi (5.2 km)
- ✓ Standalone or rack modules
- ✓ Forever Warranty™

Description

The Fiber Options Series 223D Data Transmission System consists of two transceivers that support Protocol B full-duplex operation. Using state-of-the-art technology, this system offers a simple, low-cost means of reliably transmitting Card Key data in access control applications.

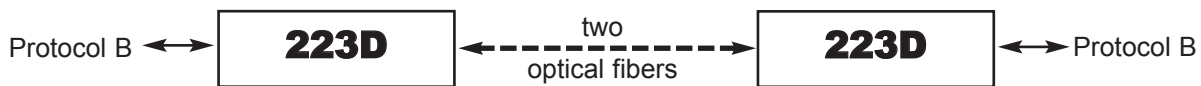
The 223D is available in standalone modules operating at 850 nm.

Rack cards can be installed easily in Fiber Options' Series 515R Card Cage System or Series 517R Racking System.

Basic Model Description

223D2 2-Fiber link, 850 nm

SYSTEM DIAGRAM



DATA

Number of Channels: 1 full duplex
 I/O Data Formats: Protocol B
 Baud Rate: DC to 500 kbps
 Bit Error Rate: 10^{-9}
 Operating Mode: Asynchronous simplex or full duplex
 Maximum Distance: The maximum distance from the CCTV control system components to the fiber units is governed by the control system.

ELECTRICAL

Input Voltage:
 Standalone Modules: 12 - 16 VAC or 13.5 VDC, regulated
 Rack Modules: 13.5 VDC, regulated
 Current Requirement: 250 mA
 Power Consumption: 3.5 W
 Rack Power Factor: 2
 Protection: Solid-state short circuit protection (no fuse required)
 Card Replacement: Cards are hot-swappable
 Power Supply: 610P (AC) 613P (DC)

SERIES 223D

OPTICAL

Optical Mode:	Multimode
Wavelength:	850
Optical Budget*:	13 dB
Operating Distance**:	3.2 mi (5.2 km)
Emitter Type:	LED
Fiber Type:	62.5 μ m
Gain Control:	Optical automatic (OAGC)
Launch Power:	-15 dBm
Receiver Sensitivity:	-28 dBm

ENVIRONMENTAL

Temperature Range	
in Operation:	-40° to +167° F (-40° to +75° C)
in Storage:	-40° to +185° F (-40° to +85° C)
Humidity Range in Operation and Storage:	0 to 95% relative, noncondensing

MECHANICAL

Standalone Module:

Dimensions:	Length: 3.75 in (95 mm)
	Width: 2.8 in (71 mm)
	Height: 1.1 in (28 mm)
Weight:	0.29 lb (0.13 kg)
Construction:	Aluminum
Finish:	Black semigloss paint
Mounting Method:	4 No. 6 (3 mm) screws

Rack Module:

Module Width:	1 slot, 1.0 in (25.4 mm)
Weight:	0.51 lb (0.23 kg)
Construction:	Aluminum
Finish:	Black semigloss paint

SMARTS™ INDICATORS

Level/Loss™, Status

AGENCY COMPLIANCE AND MTBF

Emissions:	FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity:	ENV50204, EN61000-4-2, 3, 4, 5, 6, 11
Safety:	UL1950, CAN/CSA 22.2, NO.950-95
MTBF:	>100,000 hours

*Optical Budget based on 62.5/125 μ m fiber, for 50/125 μ m fiber subtract 3 dB.

**Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update no. TB00-005, which can be found at www.fiberoptions.com.



For additional information about this product, refer to the Fiber Options Web site at www.fiberoptions.com.