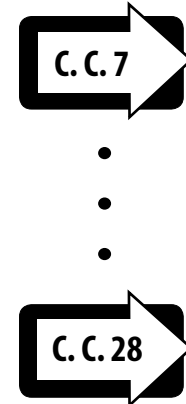




7-28 Channels of Unidirectional,  
Contact Closure over One Fiber



### FEATURES:

- Laser Based Systems for Multimode and Single-mode Fiber
- Individually Programmed Contacts for Either Normally-Open or Normally-Closed
- *SpectraSmart™* Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- DB 15 Type Connectors for Contacts

### DESCRIPTION:

The DTDR-xC-x product incorporates a new digital encoding technology. This fiber optic system is available in different configurations ranging from 7 up to 28 channels of unidirectional Contact Closure signals over one single-mode or multimode fiber.

Meridian's digital product line incorporates plug-in personality circuit cards to easily configure number of Contact Closure channels on this system.

The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.).

The functionality of the DTDR-xC-x system are further enhanced by their compatibility with Meridian's PC based *SpectraSmart™* Network Management & Diagnostic Software system. *SpectraSmart* supervises the operating parameters of the transmission system such as the status on Digital carrier detect, voltages, temperatures, optical levels, Laser currents, Digital Power supply etc. See *SpectraSmart* brochure for further details.

### CONFIGURATIONS:

The DigiFlex™ systems can be mounted as rack mount cards suitable for mounting in Meridian card chassis and utilizes 2 card slots. These products can easily be converted to a Standalone module with 2-slot Standalone Desk / Wall mounted chassis. See standalone chassis spec. for further details.

### MARKETS:

- ✓ Security and surveillance
- ✓ Access control systems
- ✓ CCTV Networks
- ✓ IR Illuminations

## SPECIFICATIONS:

### Contact Closure

Formats	Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

### Power\*\*

Card	5 Watts (7 Ch. System)
	8 Watts (28 Ch. System)

### Connectors

Data	DB 15F
Optical	ST, FC
Power	See SR-1002 Data Sheet

### Optical

Bandwidth	250 Mb/s.
-----------	-----------

### Environmental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

### Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
1 - Green	C.C Present ( One Per Channel)
1 - Bi-color (Optional)	Card Diagnostics

### Physical

Dimensions (Card)	160 mm (6.3") L, 100 mm (4") H 44 mm (1.7") W
Weight (Card)	540 g (1.2 lb.)
No. of Slots	Two

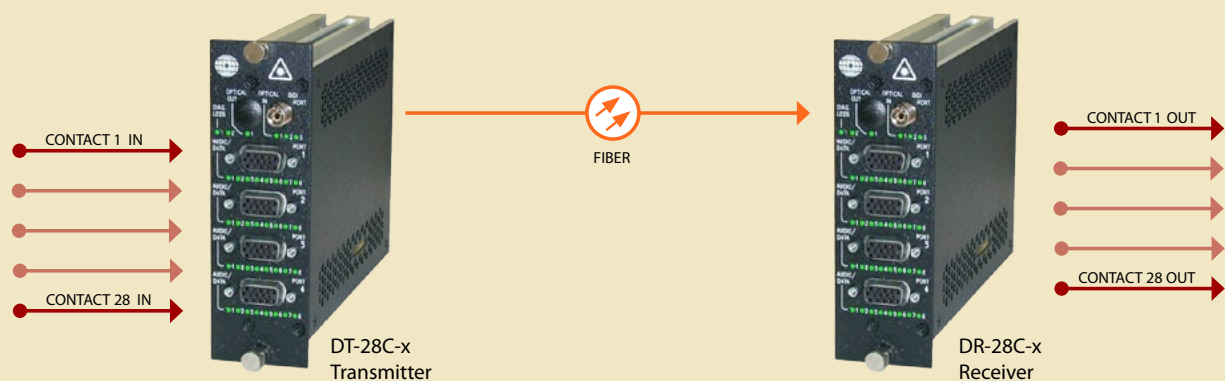
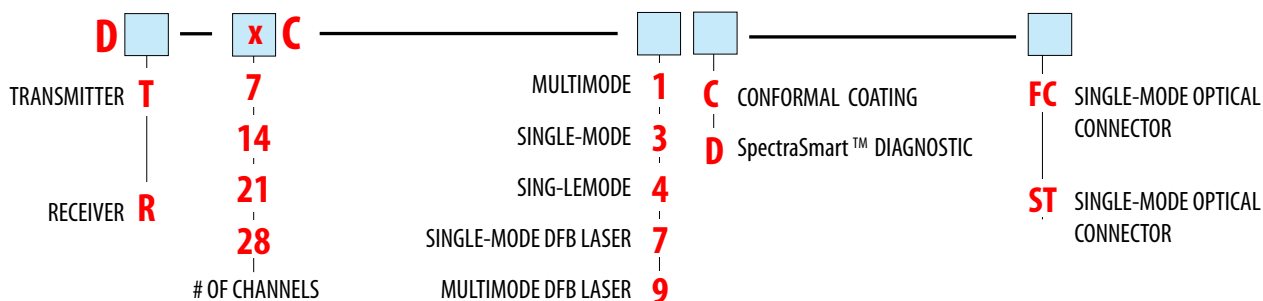
### Quality

MTBF	>200,000 hours, @ 35°C Ground Fix as per MIL 217F
------	--

\* measured @ max. optical budget

\*\* Due to variations of drivers and diagnostic options,  
power shown @ max value

## Part Numbers:



## OPTICAL:

* Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
1	Multimode (VCSEL Laser) 62.5 / 125	-3	-23	20	1300	ST	23	4
3	Singlemode (FP Laser) 9 / 125	-3	-23	20	1310	ST, FC	23	50
4	Singlemode (FP Laser) 9 / 125	-3	-23	20	1550	ST, FC	23	80
7	Singlemode (DFB Laser) 9 / 125	+3	-23	26	1550	ST, FC	23	100
9	Singlemode (DFB Laser) 9 / 125	+3	-23	26	1310	ST, FC	23	70

ver.09/18 B