



Overview

GE's CC Series is now IFS. For use in industrial security and Intelligent Transportation Systems (ITS) applications, the IFS CC Series contact closure fiber transceivers feature a robust design well-suited for harsh environments. The IFS CC Series transmits 1-channel of bi-directional contact closures or up to 8-channels of one-way contact closures. All modules are laser-based and optimized for highest optical performance on either one multi-mode or single mode fiber.

The plug-and-play design provides broad-range compatibility. The unique unified modular design can easily be deployed in either standalone or rack-mount applications. In-field configuration flexibility includes a diverse range of optics and connector choices to meet specific system and connectivity requirements. In addition, remote health and status monitoring can be implemented through the IFS Smart Rack IP Network Module.

Standard Features

Contact Closure

- Bi-directional contact closure
- 2ms response time
- Default state - normally open
- Relay contact rating of 110VDC, 30W/62.5VA max.

Optical

- One fiber design
- High-performance laser-based optics
- Multi-mode or single mode versions
- Distances up to 60Km

Robust Design

- Plug-and-play design, no in-field adjustments required
- Unified modular design for stand-alone or rack-mount installation
- Hot-swappable design with solid-state limiters
- Wide operating temperature range of -40° C to +75° C
- Designed for use in harsh environments

Local & Remote Diagnostics

- Service-friendly LED status indicators on both front and rear of the module provide for local monitoring and diagnostics
- Remote health and status monitoring via Smart Rack IP Network Module

Warranty

- Comprehensive Lifetime Warranty

CC0001 & CC0008 Series Contact Closure Transceivers



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 F 852-2142-5063

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Specifications subject to
 change without notice.

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Specifications

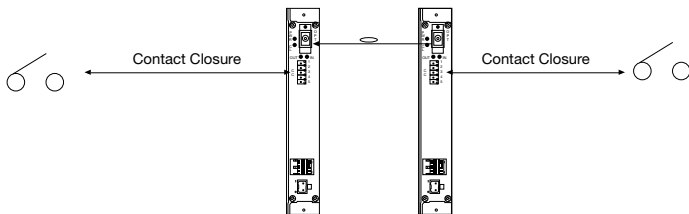
Contact Closure	
Operating Mode	CC0001 Series Bi-directional (Duplex) CC0008 Series One-way (Simplex)
Input Type	TTL Logic (positive) / Dry Contact
Output Type	Default: Logic Low / Normally Open
Dry Contact Output Rating	110 VDC/125VAC, 30W/62.5VA max.
Contact Output Response Time	2 mSec.
Optical	
Emitter Type	Laser diode
Wavelength	1310 or 1310/1550nm
Number of Fibers	1
LED Indicators	
Contact Status	Open/Off; Closed/On (Blinking Green LED)
Power	Green/On
Connectors	
Contact Closure	CC0001 Series 5-pin screw terminal CC0008 Series 8-pin screw terminal
Optical	ST (Standard); optional SC or FC connector kits available*
Power (surface-mount)	2-pin screw terminal block
Power (rack-mount)	10-pin smart bus connector
Electrical & Mechanical	
Operating Voltage	12VDC
Current Draw	500mA Max.
Current Protection	Automatic resettable fuse
Dimensions (in./cm.) (HxWxD)	1.0 x 6.2 x 9.1 in. (2.54 x 15.84 x 23.18 cm)
Shipping Weight	1.6 lbs. / 0.74kg
Environmental	
MTBF	>100,000 hours
Operating Temperature	-40° C to +75° C
Storage Temperature	-40° C to +85° C
Relative Humidity	0 to 95% non-condensing
Regulatory Compliance	FCC, UL, CE, C-Tick, FDA

Ordering Information

Fiber	Part Number	Description	Wavelength	Optical Pwr Budget*	Max. Distance**	Rack Slots
CC0001 Series Contact Closure Transceiver						
Multi-mode 62.5/125µm	DFCCMMD0001-TX	Contact Closure TCVR, 1 MM Fiber	1310/1550nm	12 dB	2.5 miles (4km)	1
	DFCCMMD0001-RX	Contact Closure TCVR, 1 MM Fiber				
Single mode 9/125µm	DFCCSMD0001-TX	Contact Closure TCVR, 1 SM Fiber	1310/1550nm	14 dB	25 miles (40km)	1
	DFCCSMD0001-RX	Contact Closure TCVR, 1 SM Fiber				
	DFCCSMLD0001-TX	Contact Closure TCVR, 1 SM Fiber, LD	1310/1550nm	19 dB	37 miles (60km)	1
	DFCCSMLD0001-RX	Contact Closure TCVR, 1 SM Fiber, LD				
CC0008 Series 8-Ch One-Way Contact Closure Mux						
Multi-mode 62.5/125µm	DFCCMMF0008-TX	8-Ch Contact Closure Mux, 1 MM Fiber	1310nm	12 dB	2 miles (3km)	1
	DFCCMMF0008-RX	8-Ch Contact Closure Mux, 1 MM Fiber				
Single mode 9/125µm	DFCCSMF0008-TX	8-Ch Contact Closure Mux, 1 SM Fiber	1310nm	18 dB	25 miles (40km)	1
	DFCCSMF0008-RX	8-Ch Contact Closure Mux, 1 SM Fiber				
	DFCCSMLF0008-TX	8-Ch Contact Closure Mux, 1 SM Fiber, LD	1310nm	25 dB	37 miles (60km)	1
	DFCCSMLF0008-RX	8-Ch Contact Closure Mux, 1 SM Fiber, LD				

* For 50/125 fiber, subtract 4dB from optical power budget
 ** Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
 Operating distance for multi-mode is limited by fiber bandwidth due to the inherent characteristic of modal dispersion within MM fiber.
 Note: Power supply must be ordered separately.

Typical Application



Accessories

Connector Kits	
SC/FC-OA	SC to FC Optical Adaptor
SC/SC-OA	SC to SC Optical Adaptor
SC/ST-OA	SC to ST Optical Adaptor
Cable Kits	
SC/LC-MM-FPC	SC to LC MM Fiber Patch Cord
SC/LC-SM-FPC	SC to SC Optical Adaptor
Smart Rack Chassis	
DFR	Smart Rack -Chassis Only

Security Products by GE are now part of the UTC Fire & Security family



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