

NEW

IFC-CCF40A & IFC-CCF20A

- ◀ 4 Channel Contact Closure input, 4 Relay output , over fiber transmission
- ▶ 2 Channel Contact Closure input, 2 Relay output , over fiber transmission

- ▲ Both 4 input (Open/Close) and 4 output (Relay) in one device
- ▲ 4 relay output, maximum breaking capacity AC62.5VA/ DC 60W load
- ▲ M/M 2km, S/M 30km, or BiDi 20km single fiber for transmission
- ▲ EN61000-6-2, EN61000-6-4, CE and FCC certified



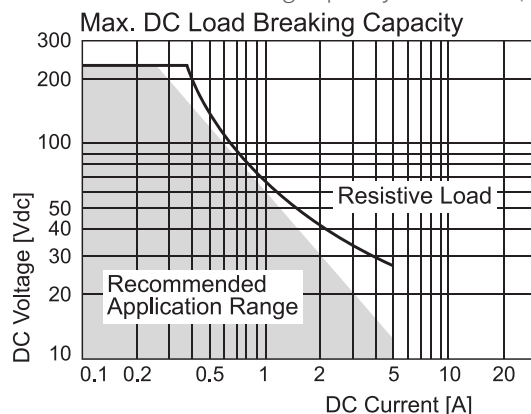
The Contact Closure over Fiber extender IFC-CCF series supports 2/4 channel contact closure to connect two points through a multi-mode or single-mode optical fiber, and then use a contact closure switch to open or close the contact between the two points. It is typically used in applications such as access control system, alarm event triggering, building automation, security barriers status indications and environmental control systems, fire & alarm systems, traffic signal control equipment etc.

Features

- Supports SFP, or SC/ST multi mode fiber 2KM or single mode 30KM fiber for transmit distances
- Supports duplex fiber, or single fiber BiDi to save cabling
- Removable terminal block connector for Power input, Alarm, Open/Close input and Relay output
- Supports relay output for power or failure warning
- Hardened housing with IP40 protection
- Fanless and DIN-Rail design for harsh industrial environment

Specifications

Input	4 Channel Open/Close (IFC-CCF40A) 2 Channel Open/Close (IFC-CCF20A)
Relay Output	Channel: 4x contact relay Output (Out 1, Out 2, Out 3, Out 4) (IFC-CCF40A) Channel: 2x contact relay Output (Out 1, Out 2) (IFC-CCF20A) Contact rated voltage: 250VAC/220VDC AC breaking capacity: Max AC 62.5VA DC resistive load breaking capacity: max. 60W (see below diagram for detail)



Fiber transmission	Connector type: ST/SC/SFP, M/M, S/M or Bidi Optional distance: SC/ST 2KM (M/M) SC/ST 30KM (S/M), 20KM (Bidi) SFP slot depend on SFP Fiber Transceiver
Removable terminal block connector	Support for Open/Close input (In1~In4) , Relay output (Out1~Out4), Power Input (PWR1, PWR2), and Alarm (IFC-CCF40A) Support for Open/Close input (In1~In2) , Relay output (Out1~Out2), Power Input (PWR1, PWR2), and Alarm (IFC-CCF20A)
Environmental	Operating Temperature -40 ~ 75°C Storage Temperature -40 ~ 85°C Humidity 5 ~ 95% RH
LED Indications	PWR 1, PWR 2(Green): Power on Alm(Amber): Alarm event Link(Green): Fiber link I1~I4 (Green): Input Close (IFC-CCF40A) I1~I2 (Green): Input Close (IFC-CCF20A) O1~O4: (Green): Output Relay Active Close (IFC-CCF40A) O1~O2: (Green): Output Relay Active Close (IFC-CCF20A)
Alarm Relay	Alarm exists for power, fiber link, Relay output with carry capacity 1A @ 24VDC
Power	Redundant Dual Input power (Removable Terminal Block) 12/24/48VDC Power Consumption TBD Power Reversal Protection Supported for power input Removable terminal block connector for power input
Mechanical	Water & Dust Proof IP40 Protection, Fanless Dimensions 106 x 32.6 x 142 mm (Dx Wx H) Mounting DIN-Rail, or wall mounting (Optional) Weight TBD

Certification

EMC	CE (EN55032, EN55035)
EMI	FCC Part 15 Subpart B Class A, CE
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 ESD Level 3 EN61000-4-3 RS Level 3 EN61000-4-4 EFT Level 3 EN61000-4-5 Surge Level 3 EN61000-4-6 CS Level 3
Free Fall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Green	RoHS
MTBF	TBD (MIL-HDBK-217)
Warranty	5 years

Application & Topology

Figure 1 : Application connection diagram

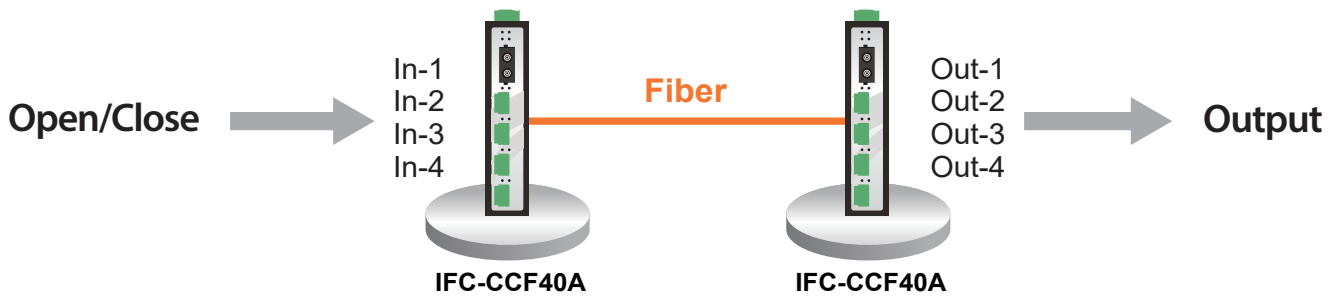
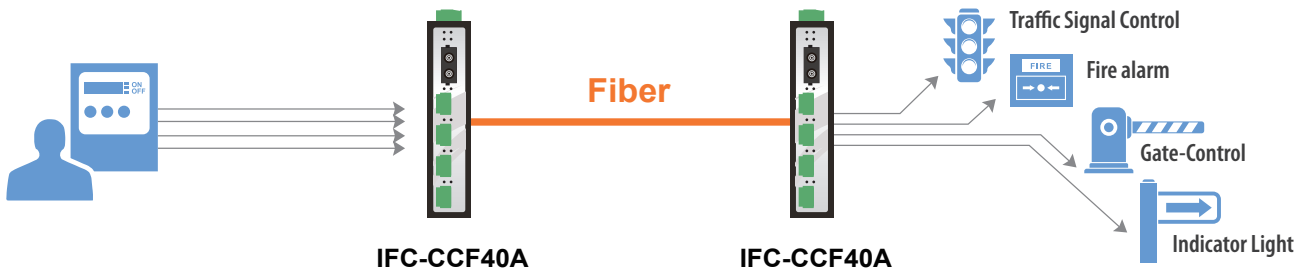


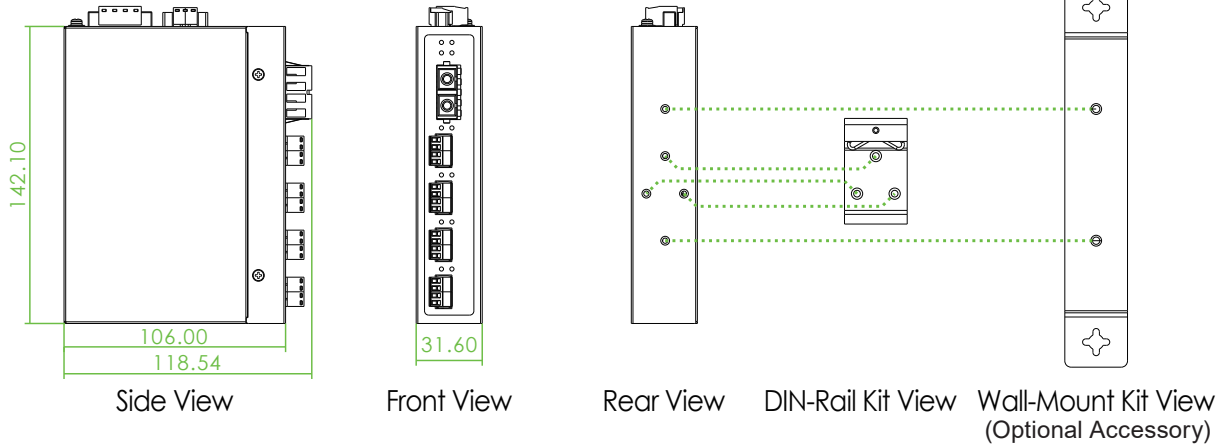
Figure 2 : Application example



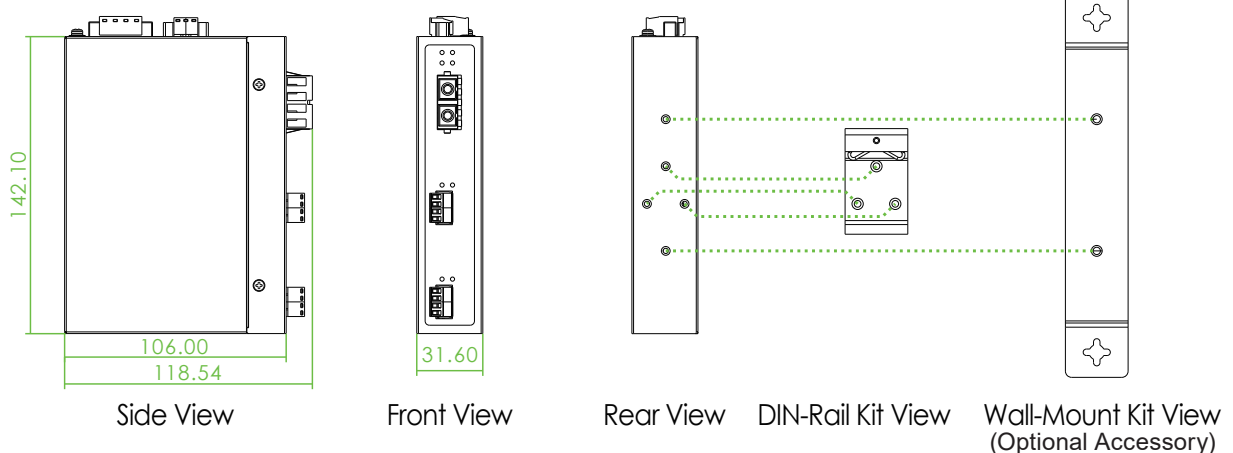
Application: High power Gate control Heavy industry automation factory Substation

Dimensions

IFC-CCF40A



IFC-CCF20A



■ Related Product



IFC-BT40: 4 Channel Binary Transducer over Fiber

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Ordering Information

Model Name	Input	Output	Fiber transmission	Power Input (Redundant)	Certification		
					EN61000-6-2 EN61000-6-4	CE	FCC
IFC-CCF40A-xxxxx	4x Open/Close	4x Contact Relay	1x SC/ST/Bidi (see detail)	12/24/48VDC	V	V	V
IFC-CCF40A-SFP	4x Open/Close	4x Contact Relay	1x SFP	12/24/48VDC	V	V	V
IFC-CCF20A-xxxxx	2x Open/Close	2x Contact Relay	1x SC/ST/Bidi (see detail)	12/24/48VDC	V	V	V
IFC-CCF20A-SFP	2x Open/Close	2x Contact Relay	1x SFP	12/24/48VDC	V	V	V

Connector Type	Connectivity Distance
SC, ST	002: M/M 2km
	030: S/M 30km
	020A: 20KM Bidi mode (TX 1310nm/RX1550nm)
	020B: 20KM Bidi mode B (TX 1550nm/RX1310nm)
Example	IFC-CCF40A-SC030

■ Package List

- One IFC-CCF40A device
- Terminal block
- Din Rail kit with screws

Optional Accessories

■ Wall Mount Kit

IND-WMK01	Wall Mount kit for Industrial product, 184 x 30mm
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■ Industrial Power Supply

MDR-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ +70°C
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