IFC-CCF40

4 Channel Binary Transducer, 4 binary input ,4 high power MSR Relay output , fiber transmission



- 4 binary input
- 4 MSR high power relay output, maximum breaking capacity 2000VAC load
- M/M 2km, S/M 30km, or BiDi 20km single fiber for transmit
- CE, FCC heavy industrial environment EN61000-6-2, EN61000-6-4



IFC-CCF40 is a four channel, binary transducer, which registers binary information from contacts via its binary inputs and forwards it, interference-free, to the other side transducer via fiber-optic cable. The remote site transducer will output the indications/signals via its relay contacts and vice versa. The transducer is equipped with four independent and bidirectional binary inputs and four contact outputs. The four contacts can be used as trip contacts. Available in two operating temperature ranges, a standard -10° to 60°C commercial temperature range and an extended -40° to 75°C range, the IFC-CCF40 is reliable and an ideal solution for keeping your industrial automation applications running smoothly and continuously even in harsh environments. The IFC-CCF40 transducer has been designed for usage in substations, water treatment, metallurgical and material engineering application. It is an ideal solution for use in critical environments.

Features

- 4 isolated binary input (BI-1, BI-2, BI-3, BI-4)
- Selectable binary input threshold level by DIP Switch (18V or 70V)
- Maximum 2.5ma input current for binary input channel
- 4 MSR contact relay output (K1, K2, K3, K4), maximum breaking capacity 2000VA for AC load , 50~280W for DC resistive load, or 30W for DC inductive load
- Supports multi mode fiber 2KM or single mode 30KM fiber for transmit distances
- Supports duplex fiber, or single fiber BiDi to save cabling
- AC or DC wide range power input (60~300VDC or 60~264VAC)
- Removable terminal block connector for Power input, Alarm, Binary input and MSR Relay output
- CE, FCC, heavy industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified
- Supports relay output for power or failure warning
- Hardened housing with IP40 protection
- Fanless and DIN-Rail design for harsh industrial environment

Specifications

Binary Input	4x channel Binary Input (BI-1, BI-2, BI-3, BI-4) Binary input threshold level select by DIP Switch, 18V or 70V threshold Maximum input current 2.5ma per channel
Contact Relay output	Channel: 4xMSR contact relay (K1, K2, K3, K4) Contact rated voltage: 250VAC Contact maximum switching voltage: 400VAC Contact rated current: 8A AC breaking capacity: Max 2000VA DC resistive load breaking capacity: max. 50~280W (see below diagram for detail) DC inductive load breaking capacity: max. 30W @L/ R=50ms (see below diagram for detail) Max. DC Load Breaking Capacity 1000
Fiber transmission	Connector type: ST/SC, M/M, S/M or Bidi Optional distance: 2KM (M/M) 30KM (S/M), 20KM (Bidi)

Fiber cable M/M : Dual fiber 50/125um, 62.5/125um S/M: Dual fiber 9/125um, 10/125um Bidi: Single fiber cable 9/125um, 10/125um

Removable terminal block connector	Support for Binary input, MSR Relay output, Power input and Alarm					
DIP Switch	SW1: BI-1, BI-2 threshold SW2: BI-3, BI-4 threshold					
	SW3: Debounce					
	SW4: Loopback te	est				
Environmental	Operating Temperature	-40 ~ 75°C				
	Storage Temperature	-40 ~ 85°C				
	Humidity	5 ~ 95% RH				
LED Indications	PWR (Green): Power on SYS (Green): Normal operation LNK (Green): Fiber link Test / Alarm: ON: Link down, system loss or Power Error Flash: Local loopback test OFF: Normal operation					
	BI-1~BI-4 (Green): K-1~K-4 (Green):	Active				
Alarm Relay	Alarm exists for p Relay output with	ower, fiber link n carry capacity 1A @ 24VDC				
Power	Power Input	AC or DC wide range input power 60~300VDC or 60~264VAC input range				
	Power Consumption	3.6W				
	Power Reversal Protection	Supported for power input				
		nal block connector for power input				
Mechanical	Water & Dust Proof	IP40 Protection, Fanless				
	Dimensions	106 x 62.5 x 135mm (Dx Wx H)				
	Mounting Weight	DIN-Rail, or wall mounting (Optional) 815g				

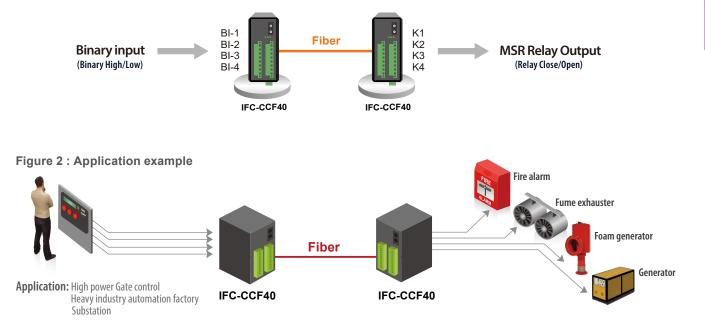
4 channel Binary Transducer



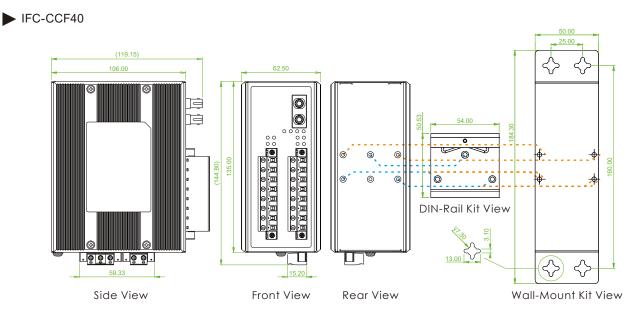
Certification		EMS	EN61000-4-2 ESD Level 3	
EMC	CE (EN55032, EN55024)	(Electromagnetic	EN61000-4-3 RS Level 3	
EMI	FCC Part 15 Subpart B Class A, CE	Susceptibility)	EN61000-4-4 EFT Level 3	
Immunity for		Protection Level	EN61000-4-5 Surge Level 3	
Heavy	EN61000-6-2		EN61000-4-6 CS Level 3	
Industrial		Free Fall	IEC 60068-2-32	
Environment		Vibration	IEC 60068-2-6	
Emission for Heavy Industrial Environment		Shock	IEC 60068-2-27	
	EN61000-6-4	Green	RoHS	
		MTBF	165,680 Hours (MIL-HDBK-217)	
		Warranty	5 years	

Application & Topology

Figure 1 : Application connection diagram



Dimensions



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• Related Product





FRM220-CCF40: 4ch Contact Closure Fiber Converter, In-Band Managed
 FRM220-CCF20: 2ch Contact Closure Fiber Converter, In-Band Managed

Ordering Information

Model Name	Input	Output	Fiber transmission			Certification	
				Power Input	EN61000-6-2 EN61000-6-4	CE	FCC
IFC-CCF40	4x Channel Binary	4x MSR Contact Relay	1x SC/ST/Bidi	60~264VAC or 60~300VDC	V	V	V
Model Naming R IFC Industrial Serial Fiber Converter		4x Channel Cont	T020A See below fo	r more detail			
Connector Type	Connectivity Distance Connector Temperature Type Dista						
SC, ST	Dual fiber IFC - CCF40						
Package List							
IFC-CCF40 devDin Rail with s		Terminal bl	ock				
Optional Ac	cessories						

Wall Mount kit Accessories
Wall Mount kit for Industrial product, 184 x 50mm