

NEW



IFC-CCF40-HP

4 Channel Binary Transducer



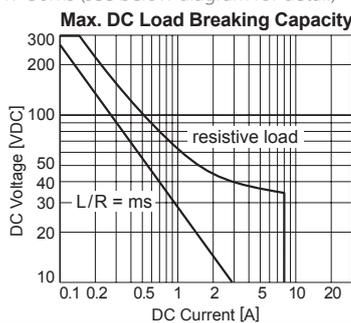
CTC Union IFC-CCF40-HP 4-channel binary transducer registers binary information from contacts via its binary inputs and forwards it, interference-free, to the other side transducer via fiber-optic cable, then the remote site transducer will put out the indications/signals via its contacts. Vice versa. The transducer is equipped with independent and bidirectional binary inputs (4) and contact outputs (4). The four contacts can be used as trip contacts. IFC-CCF40-HP transducer has been designed for usage in substations, water treatment and metallurgical and material engineering application, it's an ideal solution for use in critical environment.

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
- Support multi mode fiber 2KM or single mode 30KM/60KM fiber for transmit distances
- Support 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)
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 test
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): Active K-1~K-4 (Green) : Active
Alarm Relay	Alarm exists for power, fiber link Relay output with 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 Removable terminal block connector for power input
Mechanical	Water & Dust Proof IP40 Protection, Fanless Dimensions 106 x 62.5 x 135mm (Dx Wx H) Mounting DIN-Rail, or wall mounting (Optional) Weight 815g
Certification	EMC CE (EN55032, EN55024) 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 60068-2-32
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Green	RoHS
MTBF	165,680 Hours (MIL-HDBK-217)
Warranty	5 years

Application & Topology

Figure 1 : Application connection diagram

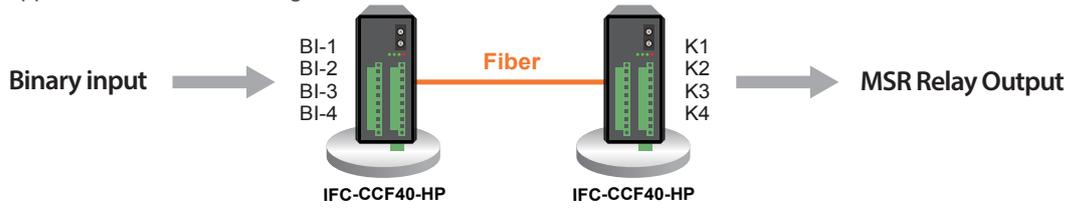
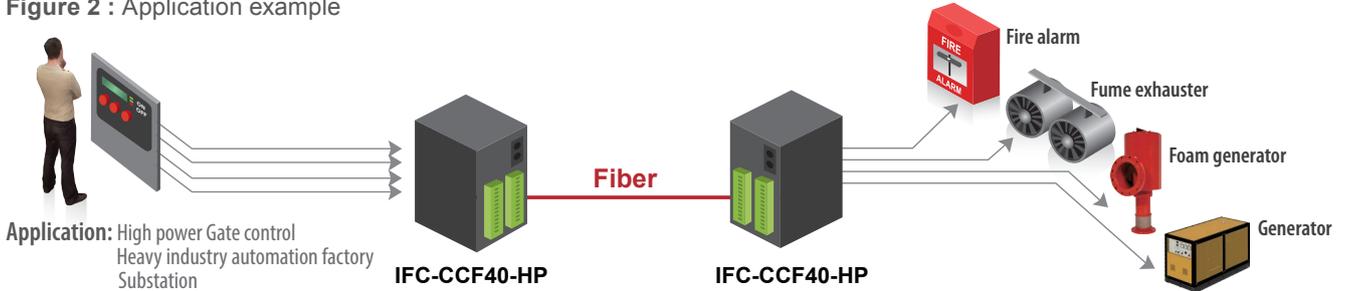
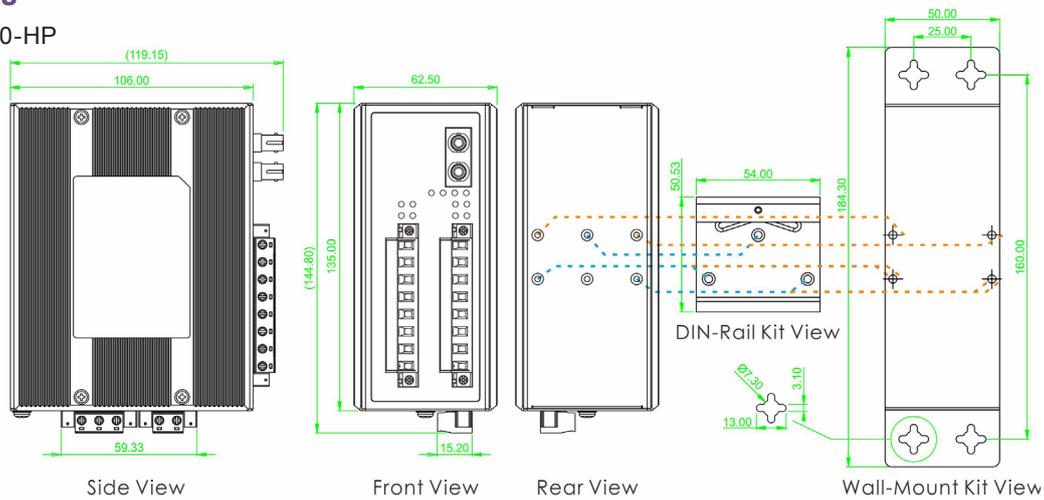


Figure 2 : Application example



Dimensions

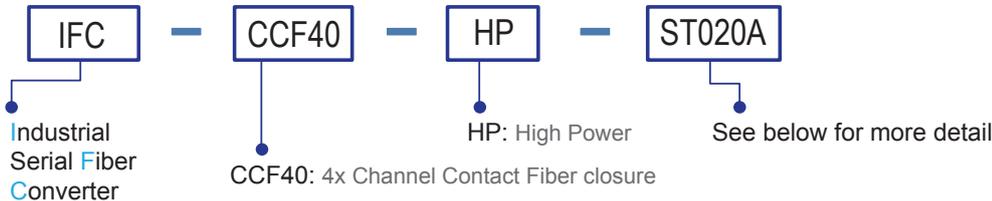
IFC-CCF40-HP



Ordering Information

Model Name	Input	Output	Fiber transmission	Power Input	Certification		
					EN61000-6-2 EN61000-6-4	CE	FCC
IFC-CCF40-HP	4x Channel Binary	4x MSR Contact Relay	1x SC/ST/Bidi	60~264VAC or 60~300VDC	V	V	V

Model Naming Rule



Connector Type	Connectivity Distance
SC,ST	Dual fiber 002: M/M 2km 030: S/M 30km Single fiber 020A: 20KM Bidi mode A 020B: 20KM Bidi mode B Mode A: TX 1310nm/RX1550nm Mode B: TX 1550nm/RX1310nm



Package List

- IFC-CCF40-HP device
- Quick installation guide
- Din Rail with screws
- Terminal block

Optional Accessories

Wall Mount kit Accessories

IND-WMK02	Wall Mount kit for Industrial product, 184 x 50mm
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