Ci- AF/DF/OF CAN/DeviceNet/CAN Open Data to Fiber Optic Converter

■ Provide 1 CAN bus interface, in line with CAN2.0A/B, DeviceNet, CANOpen protocol, communication rate up to 500Kbps
■ Support CAN electrical isolation,constant voltage 1000V
■ Support Optical Fiber link failure and power error,the unit has 120 ohms, use corresponding switch to make it to be enable, provide 4000V lightning protection function
■ Support 1~2 Fiber Optic Ports, ST connector (SC, FC Optional)
■ Provide 6 LED status indicators, relay output alarm on fiber link failure and bus data interface fault
■ DC (18~36V) dual redundant power input (can be customized with 9~18VDC), With DC1500V voltage isolation and reverse connect protection
■ IP40 protection, Metal case (wave grain aluminum reinforce case option), 35mmDIN-Rail Installation
■ Operating Temperature: -40℃ to 75℃ suitable to various Industrial work situation

Summary

The CAN/DeviceNet/CANOpen bus optical fiber converter has the characteristics of long distance transmission, rich interface, flexible networking, stable performance, anti electromagnetic interference. It is perfectly suitable for electric power system, transportation, energy monitoring and other industrial control field. This product accords with CAN, DeviceNet, CANOpen bus standard which is based on CAN2.0 A/B protocol. It provides 1 bus interface and 1~2 optical fiber interfaces, the interface can be customized according to the actual needs of the projects. It also equips with 18~36V DC wide power input (9~18VDC customizable), alarm relay output, power supply redundancy and other advantages.This series of products featured with industrial design, IP40 protection level, wave pattern aluminum reinforced casing,35mm DIN rail installation, it has the advantages of relay alarm output, redundancy power supply and isolation protection etc. It equipped with -40~75℃ wide temperature range, can meet the requirements of a variety of industrial sites, providing convenient optical fiber communication solutions.

Specification

Bus data interface
- 1~2 5-Pin terminal interface, in line with the recommendations of the organization of CiA and ODVA
- Support CAN/DeviceNet/CANOpen bus standard
- Baud Rates: DeviceNet/CANOpen full rate adaptation, up to 500Kbps
- Provide 4000V lightning protection function
- Resistor: the unit has 120 ohms, use corresponding switch to make it to be enable

Optical Interface
- Wave length: multi-mode 850nm、1310 nm; single mode 1310 nm、1550nm
- Fiber type: multi-mode 50/125um 、62.5/125um 、100/140um;single mode 8.3/125 um 、9/125um 、10/125um
- Transmission distance: multi-mode 2km, single mode 20km.
- Fiber interface type: ST/SC/FC (optional); ST (standard configuration).
- Single Fiber wavelength: A: Transmit wavelength is single mode 1310nm, then Receive wavelength is 1550nm; B: Transmit wavelength is single mode 1550nm, then Receive wavelength is 1310nm

Power

- DC (18~36V) dual redundant power input (can be customized with 9~18VDC), industrial standard voltage DC24V, consumption is less than 4W, With DC1500V voltage isolation and reverse connect protection, adopt 5 cores 5.08mm industrial terminal port (please use industrial standard power, otherwise it will occur unit error or damage).

Protection
- Relay: Fiber link fault alarm
- Contact rating: 1A @24V DC, Industrial Terminal port

Mechanical
- Dimensions (H×D×W): 136mm×104.8mm×52.8mm
- Weight:800g
- Casing: IP40 protection, wave grain aluminum reinforce case option
- Installation: Wall mounting or DIN rail mounting

Environmental
- Operating Temperature:-40℃~75℃
- Storage Temperature: -40℃~85℃
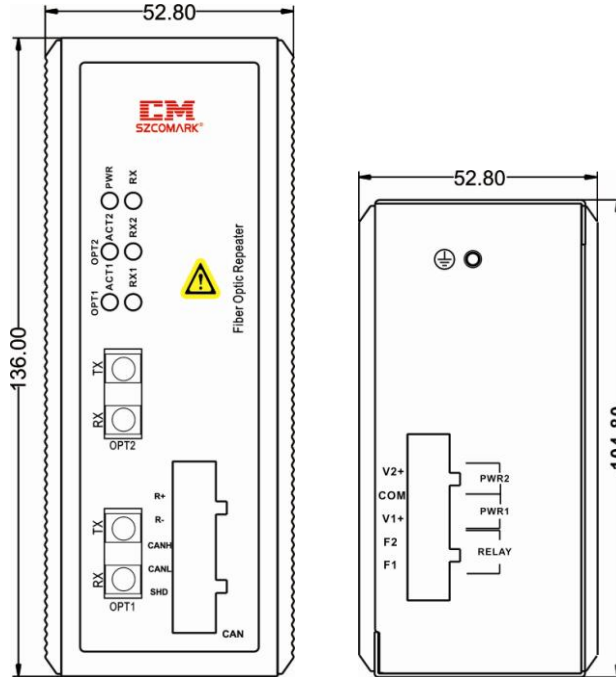- Ambient Relative Humidity: 5%~95%(non-condensing)

Warranty
- Warranty Period: 5 years

Certification

- IEC61000-4-2(ESD): Power ±4KV Contact, ±15KV Air; Relay ±6KV Contact, ±15KV Air; Data Cable ±15KV Air
- IEC61000-4-4(EFT):Power ±500V, Data Cable ±500V
- IEC61000-4-5(Surge):Power ±2KV CM/ ±1KV DM,

Relay±2KV CM/ ±1KV DM
- IEC60068-2-27(Shock)
- IEC60068-2-32(Free Fall)
- IEC61000-6-2(General Industrial Standard)
- EN50121-4 (rail transit)

Dimensions（mm）

Models

Part No.	Description
Ci-AF110	1 CAN bus port, 1 Fiber Optic port,Single mode / Multi-mode(optional), Single Fiber / Double Fiber(Optional), 18v~36VDC (9~18vdc Optional)
Ci-AF120	1 CAN bus port, 2 Fiber Optic port,Single mode / Multi-mode(optional), Single Fiber / Double Fiber(Optional), 18v~36VDC (9~18vdc Optional)
Ci-DF110	1 DeviceNet bus port, 1 Fiber Optic port,Single mode / Multi-mode(optional), Single Fiber / Double Fiber(Optional), 18v~36VDC (9~18vdc Optional)
Ci-DF120	1 DeviceNet bus port, 2 Fiber Optic port,Single mode / Multi-mode(optional), Single Fiber / Double Fiber(Optional), 18v~36VDC (9~18vdc Optional)

Package List

- CAN/DeviceNet/CANOpen data fiber optic converter (with industrial terminal block for power equipment)
- Product specification
- Product warranty card