

MODEL 211

Industrial CAN Bus Fiber Modem

User Manual

The multi-layer structure of Controller Area Network (CAN) allows any station on a serial bus to communicate with any other station. There are also benefits in central control and self-diagnosis and correction of transmission errors. A number of CAN-based higher level protocols have been developed for use in industrial automation applications. CAN Application Layer (CAL), CAN Kingdom, CAN-open, Device Net and Smart Distributed System are just a few of these variations. Fiber optic cable offers natural resistance to EMI/RFI noise and surges that commonly interfere with electrical networks on factory floors and in industrial environments.

MODEL211 converts CAN signals from copper to fiber and from fiber to copper. To connect two CAN devices with fiber optic cable, two Model CANFB converters are required.

【Package checklist】

While using this optic fiber MODEM for the first time, please check whether the packaging is intact, the random attachment is complete at first.

- MODEL211
- 5V power cable
- User manual
- Guarantee card

【Function】

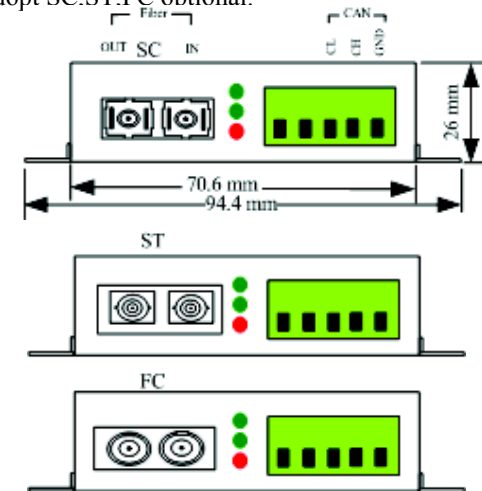
- Convert CAN Signals to Fiber and Fiber to CAN
- Fiber Naturally Resistant to Surges, Spikes and Electrical Nose
- .DIN Rail Mount
 - Terminal Block Connections for Copper
 - ST/FC connectors for Fiber

【Product Summarize】

- Multi-mode transfer 2KM, signal-mode transfer 20KM

【PIN define】

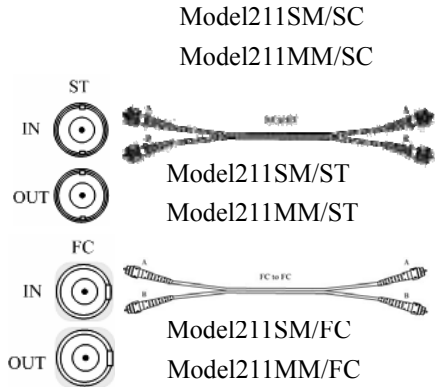
MODEL211 Fiber modem CAN port adopt 5 bit terminal block, the power is DC-IN, fiber port adopt SC.ST.FC optional.



Optic fiber interface need use in pairs, OUT port is fiber send side, connect another long-range light of interface fiber receive end IN; IN port is fiber receive side, connect long-range same fiber send side :

Optic fiber spent both ends mark the label (the following picture show: A-A, B-B, can also mark another: A1-A2, B1-B2), in order to use.





【LED indicator light】

Power Red, Power indication

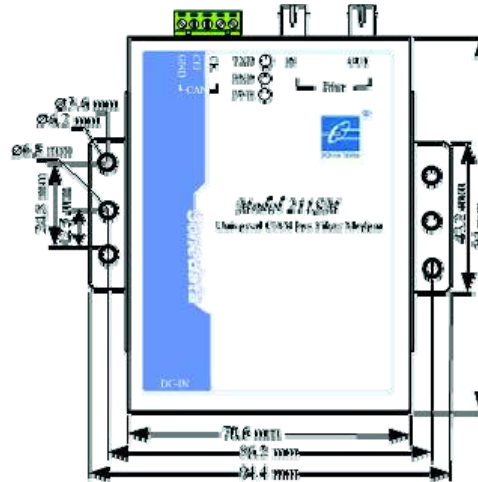
On: Power joined; Off: no power connect

RxD Green light, optic fiber interface receive data point out and concurrently mere port report an emergency and ask for help or increased vigilance, on: There are data that are received; Off: Have data receive

TxD Yellow light, optic fiber interface send datum instruct, ON: data setting; Off: no data setting

【Installation】

Model211 offer wall mounting type and DIN-rail two installation way, user can choose according to one's own convenience different to install way. Install the hanging type installation size and pursues to show in hanging type.



【Specification】

System parameter

Standard: Accord ISO/DIS 11898 standard

CAN signal: CANL, CANH, GND

Optical fiber signal: IN, OUT

Working: Asynchronism, point to point, support signal-host structure

Direction control: Adopt automatic send data control, auto distinguish and control data transfer direction

Transmission speed: 0~500Kbps, auto serial band rate test

Interface resistance: Internal setup 120ohm resistance (between CANL and CANH signal)

Loading: Support 110 node

Transmission distance: CAN port can reach up to 5000m

Optic transmission Multi-mode 2KM, signal-mode 20KM

Interface protection: 600W surge protection, support hot protect and node creepage protect

Interface port: 5 bit terminal block (CAN adopt 3 terminal block): fiber port **SC, ST, FC optional**

Environment

Working temperature: -25°C to 70°C

Storage temperature: -40 to 85°C

Relative humidity: 5% to 95%

Power supply

5VDC Input, 2W Consumption

Appearance

L×W×H: 94 mm×70.6mm×26mm

Shell: Iron

Color: White