Digital 8-channel Optical Isolated Wet Contact I/O Input Module

WI-IOT5108W

Overview

The WI-IOT5108W opto-isolated data parallel I/O controller is an 8-bit, 8-channel data input module, with each data input channel resembling several computer interfaces. The module can be remotely controlled by a series of commands via Modbus-RTU protocol, and the module and the host computer communicate via RS-485/232 serial bus using command data. The communication baud rate is software settable and can reach a maximum transmission rate of 115,200bps.

analog-to-digital-to-analog converters, stepper motor control, etc.).

Technical Parameters

- Input channels: 8 channels
- Communication protocol: Modbus-RTU
- Baud rate: 1200/2400/4800/9600/19200/38400/57600/115200bps
- Data format: 1, 8, N, 1
- Address range: 1~247
- Communication interface: RS485/232
- Supply voltage: 9 ~ 30V DC
- Operating current: 300mA@9V max
- Opto-isolated voltage input: 0 ~ 24V
- Support wet and dry node input
- Isolation voltage: 2500V DC
- Operating temperature: -40 ~ 85°C
- Storage temperature: -40 ~ 85°C
- Relative Humidity: 5 ~ 95%RH, non-condensing

Indicator light

- PWR: Red, power indicator; long light when power supply is normal.
- TXD: Green, communication indicator; when the serial port sends data to the outside, the indicator is on, and goes off when the sending is finished.
- RXD: Yellow, communication indicator; when the serial port receives data, the indicator is on, and off when the reception is completed.

Pin Definition

Interface Name	Description	Interface Name	Description
GND	Common Ground	COM	Voltage input common
VCC	Power input positive	COM	Voltage input common
DATA-	Rs485 B-terminal/RS232 RX	IN1	Voltage input 1
DATA+	Rs485 A terminal/RS232 TX	IN2	Voltage input 2
RESET	Reset	IN3	Voltage input 3
GND	Signal Ground	IN4	Voltage input 4
NC	Hanging	IN5	Voltage input 5
NC	Hanging	IN6	Voltage input 6
NC	Hanging	IN7	Voltage input 7
NC	Hanging	IN8	Voltage input 8

Structure Dimensions

Rear view

Front view

Top view

Bottom view
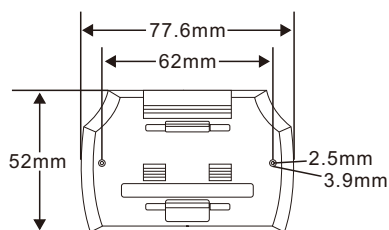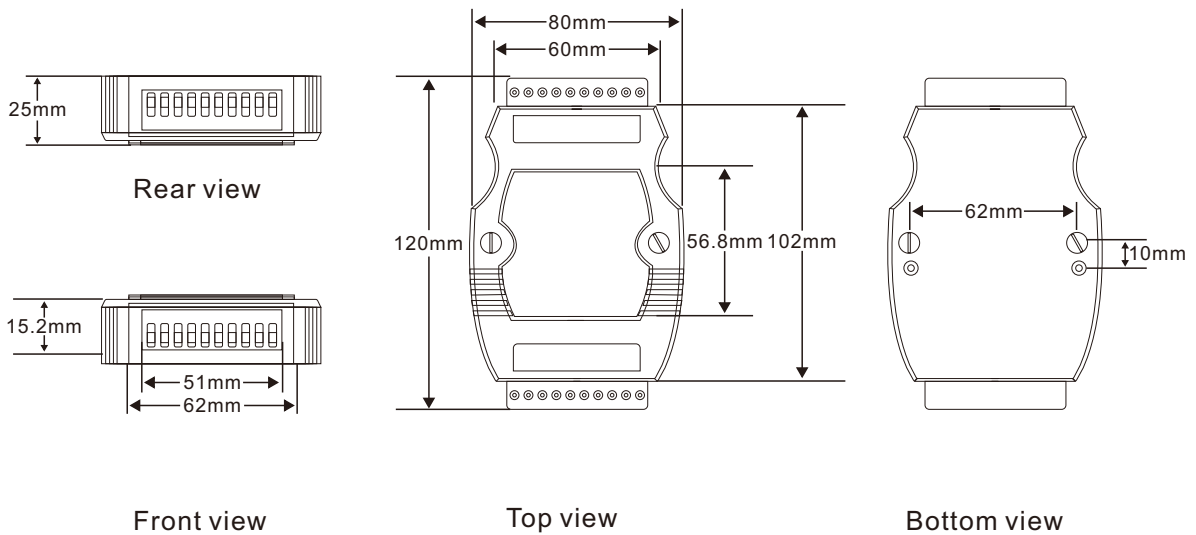
Din-rail mounting

CE FC RoHS

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