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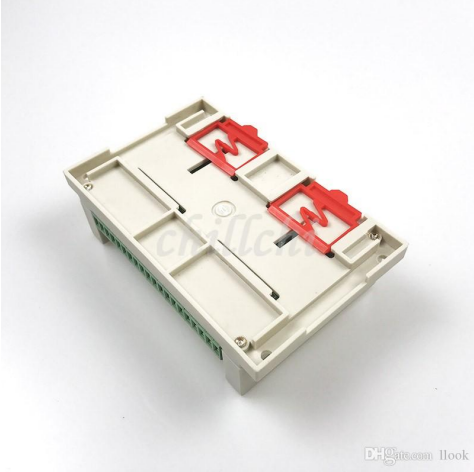

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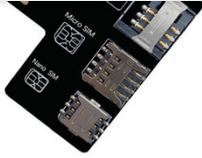
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Switch output module 12 relay output isolation type MODBUS RTU RS485 communication

Specifications

Application:	Computer
Package Type:	SOP
Dissipation Power:	standard
Supply Voltage:	n/a
Operating Temperature:	-15-85
Type:	Drive IC Logic ICs
Item Code:	449643581
Category:	Integrated Circuits

Return policy details

- Buyers can return item(s) for a refund within 7 days from the day the item(s) were received, and the buyer is to afford the return shipping cost. The item(s) must be returned in the same exact condition as once it was delivered.
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Description

Item specifics
Model Number: MB12RO
Type: Logic ICs
Supply Voltage: 250V
Condition: New
type of output: 12 normally open relay output 250V/10A
Communication type: RS485 MODBUS-RTU
Characteristic: Relay, RS485 communication, the main power of mutual isolation
Technology: Industrial patch design
Product Description
MB12RO 12 way relay output module, relay can be controlled through the MODBUS bus, LED status indication, rel: RS485, using Modbus-RTU communication, direct fit PLC, DCS and domestic various configuration .

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A. Summary

MB12RO 12Road relay output module, the relay can be controlled through the MODBUS bus, the control interface communication, directly with the PLC, DCS, and various domestic configuration , etc..

The relay output, the power supply and the RS485 communication electrical signals are isolated from each other, v common mode interference, and ensure the reliability of the module.

Two. Characteristic

- One Using Modbus-RTU protocol.
2. Relay output, power supply, RS485 communication electrical signals isolated
- Three RS485The communication signal output interface is protected by the overvoltage and overcurrent protection
4. Power polarity protection.

Three. Technical index

project	parameter
signal output	1Output channel: 12 normally open relay output 2Load capacity: resistive load 250V/10A inductive load 250V/3A FiveRelay coil and contact isolation voltage: 1500V
Communication output	1Communication protocol: MODBUS-RTU 2Interface type: isolated RS485 communication, the output of the interface using the overvoltage and overcurrent protection 3Baud rate: 1200BPS, 2400bps., 4800bps, 9600bps, 19200bps 38400bps57600bps, 115200bps. 4Check bit: no parity check, parity check 5. setting: module address, baud rate, parity bit is set up by the 6Communication distance: 9600bps 1200 meters SevenIsolated voltage: 1500V
Module size	Separate module size: 145mm*90mm*40mm
Installation method	Standard DIN guide rail installation
work environment	Temperature: -10 ~ +55 temperature humidity: 35~85% (not dew)
Working power supply	1Power supply voltage: 10V~30V wide range of power supply, with the power supply polarity protection 2Power consumption: less than 5W

Four. Product appearance

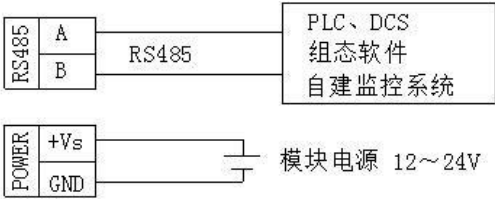
Five. External wiring diagram

1. Relay output method

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2. Communication and power supply connection



Six. Module indicator lamp and switch function specification

1. POW/SET;Module working status indication

A.Green light: the module works in the running state. B. red light: the module power up.

2. TXD/RXD:Communication status indication

A.The green light flashes: the communication receives the data B. red light flas

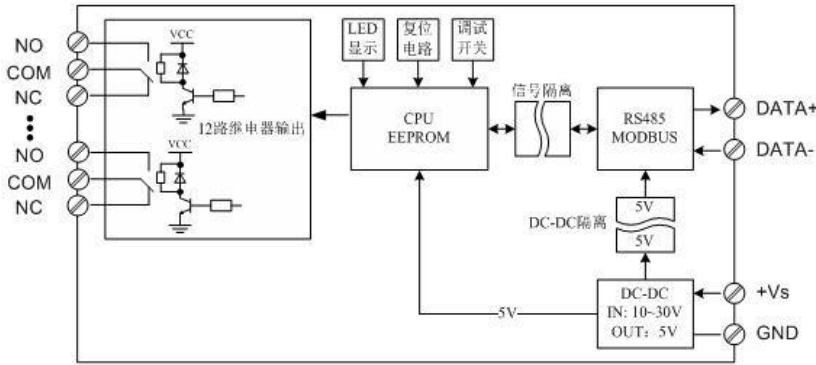
C.The green light is always on: DATA+ and DATA- on the communication line RS485 connection is broken.

Three Module right reset switch

1)When the communication parameters (module address, baud rate, parity misspecification, and can not establish contact module communication, then we use the clip to hold the reset switch is not open, 5 seconds after the [POW/SET] the reset switch, the communication parameters have been reset, as long as time, the communication parameters of the module has been reset.

2)Communication parameters after reset: Address: 1, baud rate: 9600bps,

Seven. Principle block diagram



Eight. MODBUSRegister description

1. Module supports MODBUS function code

Code	Meaning	operation
0x01H	Read more than one coil register	Read the values of one or more coil registers
0x03H	Read more than one hold register	Read one or more of the value of the register.
0x05H	Write a coil register	Write the value of a coil register
0x 06H	Write a single hold register	Write a data to hold register
0x0FH	Write one or more coil registers	Write one or more of the value of the coil register
0x 10H	Write more than one hold	Write one or more data to hold registers

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1) Coil register0x01H,0x05H,0x0FH)

address	parameter	read/write	minimum value	Maximum value	Explain
00001	RO0	Read and write	0	1	Relay output0
00002	RO1	Read and write	0	1	Relay output1
00003	RO2	Read and write	0	1	Relay output2
00004	RO3	Read and write	0	1	Relay output3
00005	RO4	Read and write	0	1	Relay output4
00006	RO5	Read and write	0	1	Relay output5
00007	RO6	Read and write	0	1	Relay output6
00008	RO7	Read and write	0	1	Relay output7
00009	RO8	Read and write	0	1	Relay output8
00010	RO9	Read and write	0	1	Relay output9
00011	RO10	Read and write	0	1	Relay output10
00012	RO11	Read and write	0	1	Relay output11

2) Hold register0x03H,0x06H,0x10H)

address	parameter	read/write	minimum value	Maximum value	Explain
40065	Equipment type	read-only	0	256	2 (MB8ROModule)
40066	Equipment status	read-only	0	0x0101	Bit4Reset button stBit0Module reset request flag
4006					

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Address	Parameter	Read/write	Minium value	Max value	Explain
40065	Equipment type	read-only	0	256	2 (MB8RO module)
40066	Equipment status	read-only	0	0x0101	Bit4 Reset button state Bit0 Module reset request flag
40067	Module voltage	read-only	0	300	0.0-29.9V
40069	Product version	read-only	0	65535	Hardware version (8 bits) + software version (low 8 bits)
40070	production information	read-only	0	65535	Year (high 8) + batch number (low 8)
40071	Module address	Read/write	1	247	1 (default)
40072	baud rate	Read/write	0	7	0(1200) 1(2400) 2(4800) 3(9600) 默认 4(19200) 5(38400) 6(57600) 7(115200)
40073	Check digit	Read/write	0	2	0 (no checksum), default 1 (even check) 2 (odd check)

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project	Register address	Explain	Default value
address	40071	1 (default)	1
baud rate	40072	0(1200) 1(2400) 2(4800) 3(9600) 4(19200) 5(38400) 6(57600) 7(115200)	3
Check digit	40073	0 (no checksum), default 1 (even check) 2 (odd check)	0
Data bits	---	Non adjustable	8 bit
Stop bit	---	Non adjustable	1 bit

2. Reset the communication parameters

1) Why reset communication parameters:

A) The user has forgotten the communication parameter settings and can not communicate with the module.

B) The user has set the communication parameter settings and can not communicate with the module.

2) How to reset the communication parameters

A) Press and hold the touch switch on the right side of the module for more than 5 seconds until the module [POW / SET] is on and the red light is on.

B) The communication parameter has been reset to the default value after the module has been powered up after power is turned off.

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2) need to set the communication parameters: Address: 2, baud rate: 19200bps, parity bit

3) the organization to write the order, with 0x10 function code organization orders.

project	number of bytes	data
address	1	0x01
Function code	1	0x10
Start address	2	0x0046
Number of registers	2	0x0003
number of bytes	1	0x06
data1	2	0x0002
data2	2	0x0004
data3	2	0x0000
CRC check	2	0x3C4A

4) Organize the sending instructions: 01 10 00 46 00 03 06 00 02 00 0

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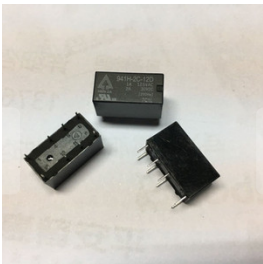
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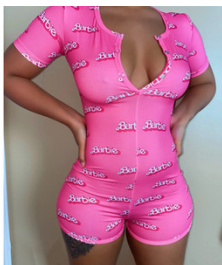





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