

Industrial 4-Channel Relay Module

FIT0827

Product Overview

11-04-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot Industrial 4-Channel Relay Module uses the standard Modbus RTU protocol. The communication interface supports RS485 or RS232 and supports communication baud rates of 2400, 4800, 9600, 19200, 38400 (default 9600). Each relay output is independent and can be connected to different load devices like 220V electric lights, 24V solenoid valves, etc. Both AC and DC devices can be controlled. Each relay output contact is isolated and can set 0-255 device addresses. It can be switched ON and OFF very quickly.



This industrial 4-channel relay module allows user to control electrical equipment only through one computer serial port. It supports DC 7V to 30V wide voltage power supply, optocoupler isolation, four-way switching input, and four-way relay output. The management and controlling of electrical equipment can be completed by a computer, which makes this module to be widely used in different scenarios. These scenarios include like factories, hotels, lighting control in stages, homes, cinemas, and can also be used for motor control and production line control.

Features

- 10A/30V DC, 10A/250V AC contact capacity
- 100,000 times durability
- RS485 data interface
- DC 7V to 30V rated voltage
- 1 red LED power indicator
- 4 red LED indicators output indicator
- Industrial grade, -40°C~85°C temperature range
- 9600, n, 8, 1 default communication format
- 2400, 4800, 9600, 19200, 38400 baud rates
- 115mm x 95mm x 41mm / 4.53" x 3.74" x 1.61" dimensions

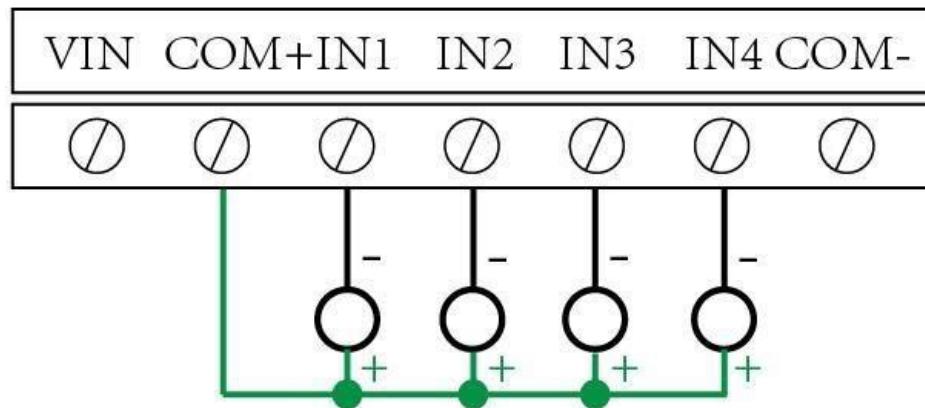
Pin Description



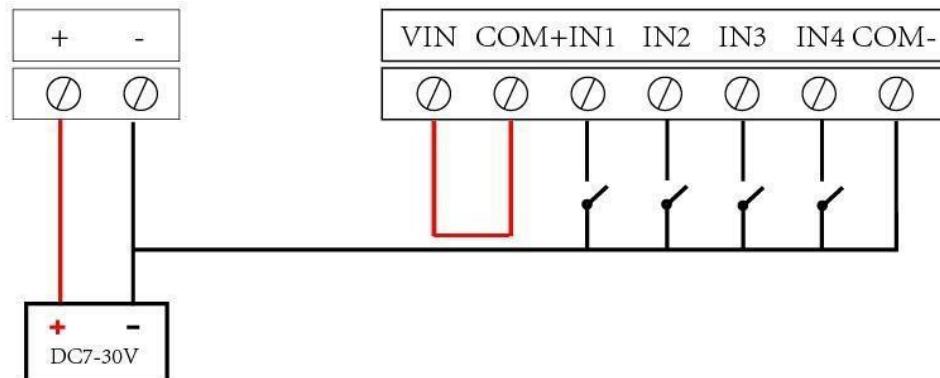
Number	Pin	Description
1	+	Positive power supply
2	-	Negative power supply
3	VIN	When passive input, VIN and COM are used for short-circuiting, please refer to the input wiring diagram for details
4	COM+	When passive input, VIN and COM are used for short-circuiting, please refer to the input wiring diagram for details
5	IN1	The first way switch input
6	IN2	The second way switch input
7	IN3	The third way switch input
8	IN4	The fourth way switch input
9	COM-	Used for passive input, refer to the input wiring diagram for details
10	Normally opened	The first relay output NO
11	The public side	The first relay output Common
12	Normally closed	The first relay output NC
13	Normally opened	The second relay output NO
14	The public side	The second relay output Common
15	Normally closed	The second relay output NC
16	Normally opened	The third relay output NO
17	The public side	The third relay output Common
18	Normally closed	The third relay output NC
19	Normally opened	The fourth relay output NO
20	The public side	The fourth relay output Common
21	Normally closed	The fourth relay output NC

Input wiring

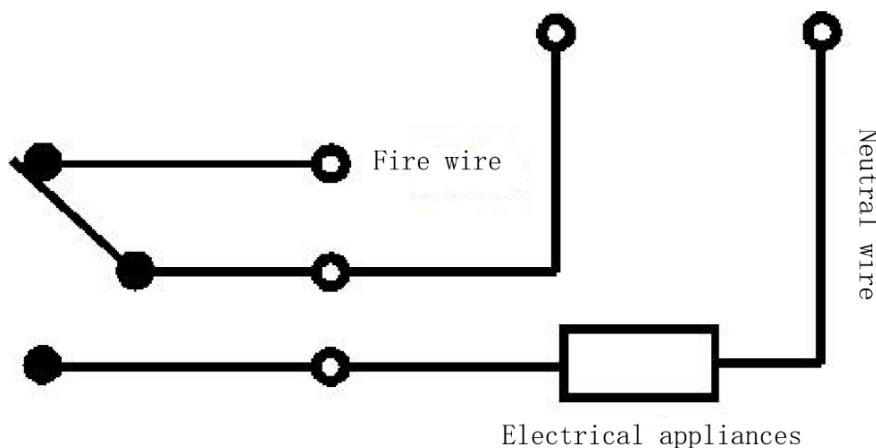
- Wiring diagram of active switch (NPN-type low level)



- Wiring diagram of passive switch (dry contact)



Output wiring



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-industrial-4-channel-relay-module/>