DIRECT Series Lighting Control Module

DR-4SWD20A

4 Channel 20A Relay Switch Module (Current Detect)

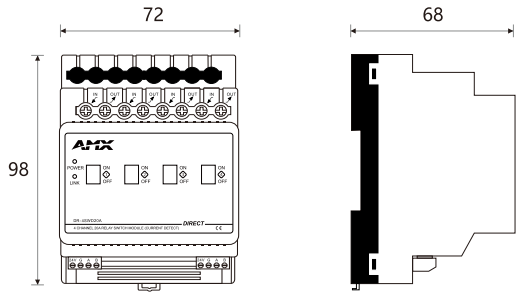
DR-4SWD20A includes four intelligent relay switches. Each circuit can independently control the switch of 4400 W device, with mechanical forced switch, visually indicating the switch status of each circuit. DR-4SWD20A provides four channels of built-in current detection function, which can detect the current of each circuit in real time. It can control the switch of lights, the on and off of DC or AC power of the device, the on and off of passive dry contacts, the opening and closing of strong or weak current curtains, the hot and cold valves of water-cooled air conditioners, and the switching of high/medium/low wind speed.

Features

- Provide 4-channel 20 A relay switches using magnetic latching relays.
- Each circuit can independently control the switch of 4400 W device.
- Provide the current detection function, with the minimum accuracy of 10 mA.
- Detect the circuit current in real time. Immediately report to the monitoring center once the data changes.
- Immediately return the actual switch status of each circuit to the monitoring center after executing the scene command.
- Provide one built-in fire control interface, with one passive normally-open terminal and one active 24V terminal.
- Provide local and remote programming and testing functions.
- Equipped with a mechanical forced switch, the relay can also be switched on or off when the system crashes or the power is cut off.
- Support online refresh of programs, with DR-Link bus disconnection fault alarm.
- Support RS485 and DR-LINK bus communication, and cascade up to 61 units.

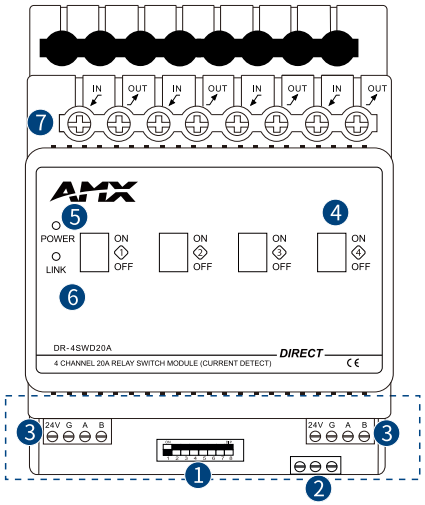
Technical Specifications

Operating voltage	24 V DC±5%
Instant start power consumption	≤1.85 W
Output circuit	4 relays
Input voltage	220 V Ac±10%
Control load	20 A (single channel)
Switching times	No load: 1,000,000 times. Loaded: 50,000 times
Current range	Range: 0-20,000 mA. Minimum range: 10 mA
Current detection	Built-in current transformer coil
Bus interface	2×DR-Link buses
Fire control interface	1×fire control interface
Operating temperature/humidity	-5°C to 45°C/≤90% RH
Storage temperature/humidity	-20°C to 60°C/≤93% RH
External dimensions (L × W × H)	72 mm × 98 mm × 68 mm
Mounting mode	Standard 35 mm DIN rail mounting
Net weight	≤331.6 g/PCS



Unit: mm

Product Structure

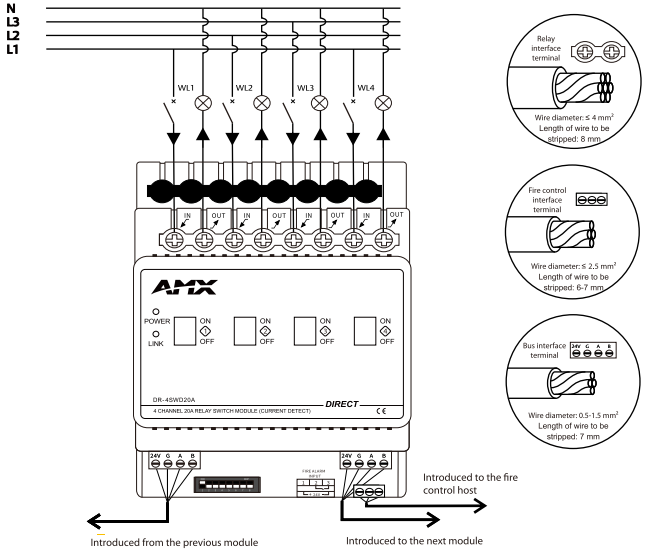


Note: When using the DIP switch and the fire control port, remove the baffle inside the dotted line box. To remove it, press the baffle down with your fingers, and then drag it backward to take it out.

1. Address setting: The factory default address is 01, and the address range is 01-63 (decimal). The address can be set using an 8-digit dial, binary dial mode. For setting method, see "address setting description" in the section "Wiring Diagram of a Single Product".
2. Fire control interface: passive terminal, active terminal.

   For usage method, see "fire control interface description" in the section "Wiring Diagram of a Single Product".
3. Bus interfaces: 24V, G, A, and B. When cascading with other bus interfaces, do not connect them wrongly.
4. Forced switch: Switches 1-4 respectively correspond to channels 1-4. You can toggle the switch up and down (ON: enable. OFF: disable) in the groove of the switch using a small flat-head screwdriver.
5. POWER: Power indicator
6. LINK: Interconnection indicator. When this indicator is steady on, the interconnection is normal. When this indicator slowly blinks, the interconnection is abnormal.
7. Relay output terminals: One in and one out. The aperture supports the connection to φ4 mm^2 wires.

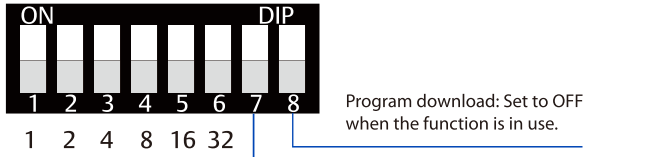
Wiring Diagram of a Single Product



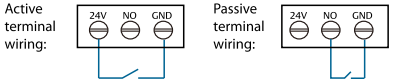
Address setting description

The DIP switch has 8 digits, namely, 1, 2, 4, 8, 16, and 32. Each digit represents a numerical value. The sum of the values represented by the digits dialed to ON is the address code of the device (as shown in the figure, address code 11 is: 1+2+8=11, and address code 30 is: 2+4+8+16=30).

The address setting range is 1-63. The device address must be unique in the system.



Fire control interface description



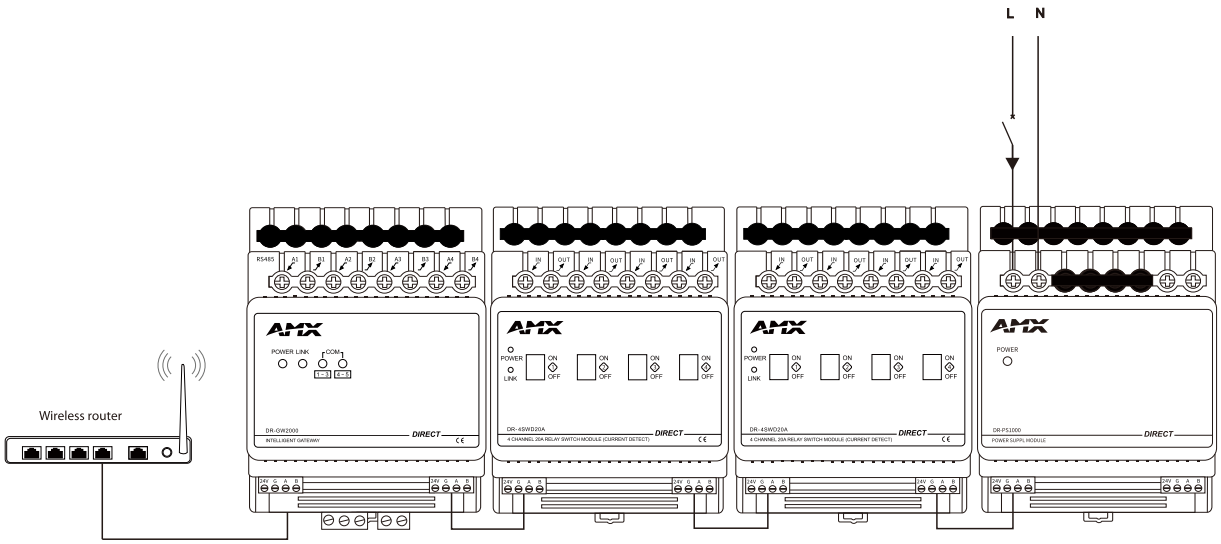
Active signals are input through the DC 24 V interface. Channels 1-4 are open.

Passive signals are input through the normally open interface. NO and GND are short-circuited. Channels 1-4 are open.

(When the fire control mode is released, channels 1-4 are closed.)

Note: In the fire control mode, the software and manual keys cannot be used to operate the device.

Wiring Diagram of Multiple Products



Safety Use and Maintenance

- Read all instructions carefully before using the product.
- Keep the environment well ventilated.
- During use, pay attention to moisture-proof, shock-proof and dust-proof.
- It is strictly forbidden to expose the product to rain, other liquids or corrosive gases.
- If the product is damp or the liquid enters the product, it should be dried in a timely manner.
- When the product fails, please contact professional maintenance personnel or HARMAN.

Contact Method

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082022