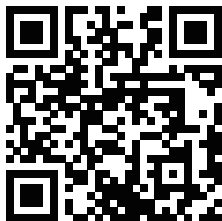




LED Strip Controller User Manual

DOM-WLE-SFQ



Scan to view the detail manual
Email: jackzhou@domraem.com

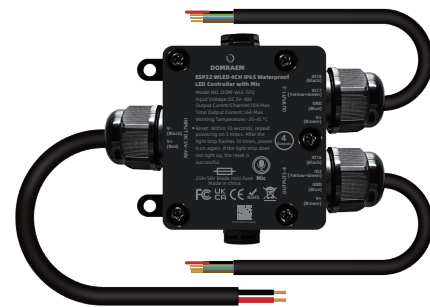


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DOM-WLE-SFQ_V1.2

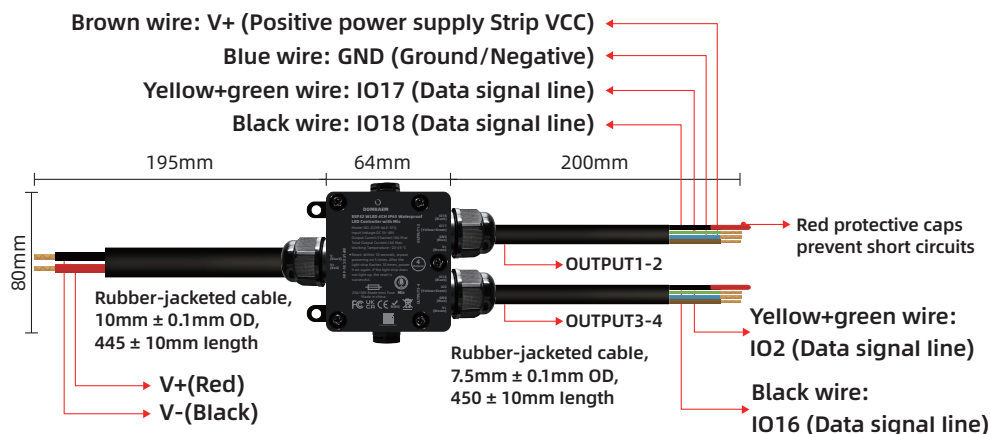
Model NO.: DOM-WLE-SFQ
Input Voltage: DC 5V-48V
Output Current/Channel: 10A Max
Total Output Current: 16A Max (25A replaceable fuse)
Protection: Input Reverse Polarity Protection
Working Temperature: -20~45°C
Wireless Communication: WiFi
Dimensions: 64x80x37mm



WLED Controller Wiring Guide:

Output Port Definition,

The controller is equipped with two 4-wire output ports, featuring the following connections:



Standard LED Strip Connection

Brown = V+, Blue = GND (Shared Power)

OUTPUT 1-2: Black = IO18 (CH1), Yellow-Green = IO17 (CH2)

OUTPUT 3-4: Black = IO16 (CH3), Yellow-Green = IO2 (CH4)

Safety & Operation Notes

- △ ALWAYS power off before wiring.
- △ Verify polarity - reverse connection may damage equipment.
- △ To prevent short circuits between the data and power lines, do not remove the red protective cap until the LED strip is properly connected.
- △ Signal attenuation may occur with long cascaded strips.

Important Notes:

1. Ensure power supply voltage matches LED strip requirements.
2. For long-distance transmission, use signal amplifiers.
3. Apply waterproof insulation in humid environments.

Firmware update (OTA):

Please perform the firmware update carefully, and you must select the correct file. Otherwise, this may cause functional abnormalities or even damage to the device. For details, please scan the QR code to refer to the OTA instructions.



1. Ensure all wiring connections are properly installed and securely fastened before powering on the device. Never perform installation or adjustments when the device is energized.
2. Operate the product only within its rated voltage range. Overvoltage or undervoltage may cause permanent damage.
3. Do not disassemble the product, as it may cause fire and electric shock.
4. Do not use in metal-shielded areas or near strong magnetic fields, as this may severely degrade wireless signal performance.

DISCLAIMERS

1. This manual is subject to revisions based on product improvements. Updated versions will be published without prior notice.



README



Attention

LED Strip Controller Reset & Configuration Quick Guide:

1. Reset operation: After power off, wait for the LED to completely turn off before powering it back on, repeat 5 times. (Completed within 10 seconds)
2. Success sign: After the 5th power-on, wait for the LED to flash 10 times, then the yellow light stays on (30 ICs working). When powered on again, the LED does not light up. That is, the reset is successful.

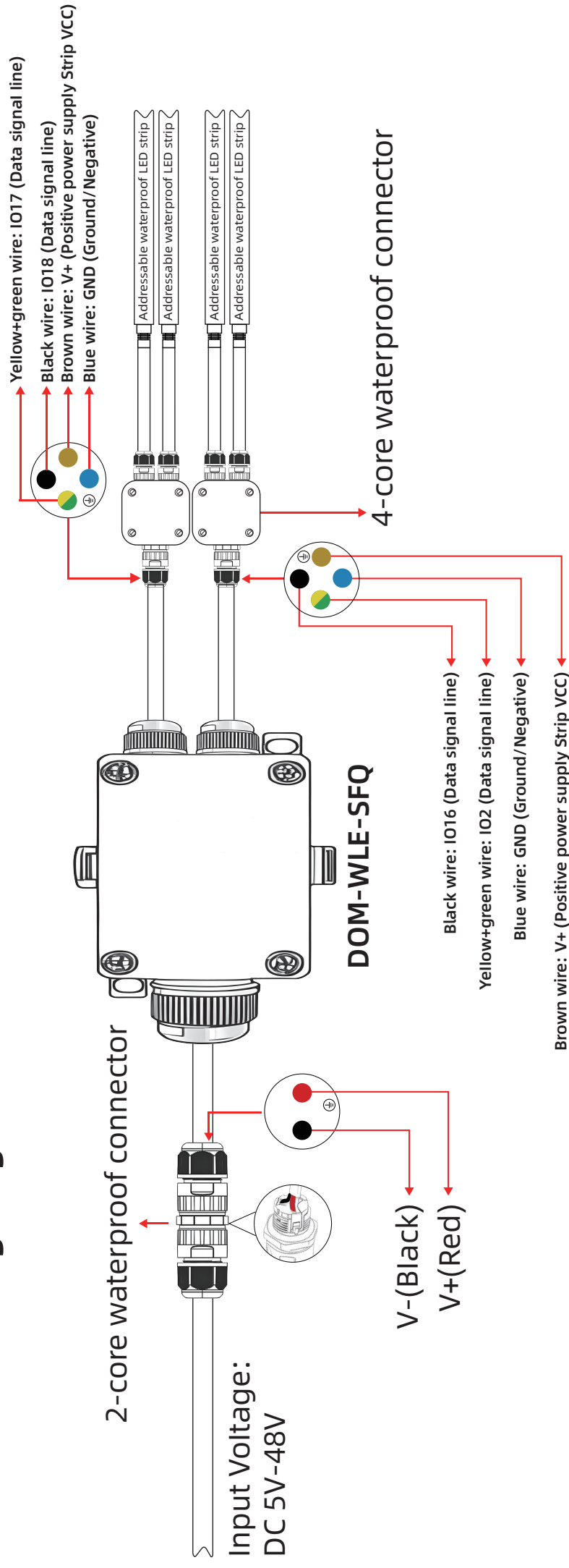
3. Subsequent Configuration: The relay GPIO12 must be configured, and the device must be powered on again; otherwise, the LED strip will not illuminate.

NOTE:

- ① Power-on must be done only after all LEDs are completely off.
- ② The five power-on operations must be completed within 10 seconds.
- ③ GPIO12 must be configured after reset.

Troubleshooting: If reset fails, wait 60 seconds and then reset again (reset must be re-performed).

Refer to the wiring diagram



This product supports a wide range of addressable LED strips, including but not limited to:

WS2811、WS2811F、WS2812、WS2812B、WS2813、WS2814、WS2814A、WS2815、WS2805、SK6812、SK19703、SK16703、SM16703SP3、FL19038、FW1935、TM1814,etc.

NOTE: When installing the controller, please fully insert the “cable sheaths” of the input and output wires into the waterproof connectors or the interior of the waterproof box. Otherwise, it will cause permanent damage to the controller. Installation must be carried out with reference to the wiring diagram.

This product does not include waterproof connectors and light strips; it is only for reference as a wiring diagram in the instruction manual.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.