

Product Overview

This product controls the valve via Bluetooth, featuring pairing and encryption functions, and allows control by multiple master devices. Additionally, the valve will close immediately upon detecting movement.

Electrical Parameters

- DC +12V
- Max Current: < 5A
- Max Current (without valve): < 150mA

Wiring Instructions

- MOTO-A, MOTO-B: Connect to the valve.
- +12V: Connect to the 12V DC power supply.
- GND: Connect to ground.
- BACKUP +12V: Connect to a backup 12V DC power supply. GND: Connect to ground.
(Note: This is for backup power and can be left unconnected.)

Operating Instructions

1. Clear all bound users: Insert a pin into the small hole and hold for one second. The Bluetooth icon will flash once, indicating all bound users have been cleared.
2. Bind a user: Press and hold the switch on the Bluetooth icon for three seconds. The blue light above will flash, initiating Bluetooth broadcasting. The master device (e.g., mobile phone) can then connect and pair. The blue light stays on when connected. Commands can then be sent for operation (refer to the Bluetooth Commands section below).
3. Manual Operation: Press and hold the ▲▼ button for one second to toggle the valve between open and closed. The light on the ▲▼ button only illuminates when manually opening the valve.
4. Main LED: The main LED light is on when the valve is open.

Bluetooth Commands

1. Open Valve:

- Send: 0x12, 0x00, 0x00, 0x00, 0x00
- Valve Status Reply: 0x09, HEX_VALVE_STATE, 0x00, 0x00, 0x00

2. Close Valve:

- Send: 0x11, 0x00, 0x00, 0x00, 0x00
- Valve Status Reply: 0x09, HEX_VALVE_STATE, 0x00, 0x00, 0x00

3. Query Valve Status:

- Send: 0x10, 0x00, 0x00, 0x00, 0x00
- Valve Status Reply: 0x09, HEX_VALVE_STATE, 0x00, 0x00, 0x00

HEX_VALVE_STATE Definitions:

- 0x00: Closed
- 0x11: Open
- 0x22: Moving

FCC Statement

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

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 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.

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.