VST IH01

VST Motion Sensor Switch (Model IH01) Instruction Manual

IR Sensor Switch for Closet and Under Cabinet Lighting

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your VST Motion Sensor Switch, Model IH01. This infrared (IR) sensor switch is designed to automatically control 12VDC/24VDC LED lights in cabinets and closets, turning them on when a door is opened and off when it is closed.

1.1 What's in the Box

- 1 x VST Motion Sensor Switch (Model IH01)

2. Safety Information

Please read all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Disconnect Power:** Always ensure the main power supply is disconnected before performing any installation or maintenance.
- **Voltage Compatibility:** This switch is designed for 12VDC or 24VDC systems only. Do not connect to AC power or voltages outside this range.
- **Current/Wattage Limits:** Do not exceed the maximum current rating of 3 Amps or maximum wattage of 60 watts. Overloading can cause damage or fire.
- **Indoor Use Only:** This product is intended for indoor use in dry locations. Avoid exposure to moisture or extreme temperatures.
- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified electrician.

3. Specifications

Feature	Specification
Model Number	IH01
Operation Mode	Infrared sensing
Current Rating	3 Amps (Max)
Operating Voltage	12 Volts (DC) / 24 Volts (DC)
Wattage	60 Watts (Max)
Contact Type	Touchless
Connector Type	Plug In (JST Male/Female)
Sensor Range	30-80mm (approximate, depends on surface)
Dimensions (L x W x H)	4 x 3 x 0.7 inches (approximate)
International Protection Rating	IP54
Mounting Type	Surface Mount

4. Setup and Installation

Follow these steps to install your VST Motion Sensor Switch. Ensure power is disconnected before beginning installation.

4.1 Component Identification

Familiarize yourself with the components of the sensor switch system:

Image: Product Detail Presentation showing JST Male Port, Door Sensor Position, and JST Female Port. The image highlights the male and female JST connectors and the location of the door sensor on the unit.

4.2 Wiring Connections

The switch connects between your 12V/24V DC power driver and your LED lights. The sensor detects door movement to control the light.

Image: Detailed wiring diagram for the VST Motion Sensor Switch. It illustrates two connection scenarios: one for a 12V LED driver directly connected, and another for a 24V LED driver requiring 12V/24V conversion cables between the driver,

main switch, and 24V strip light.

1. **Connect to Driver:** Connect the JST male port of the sensor control unit to the output of your 12V or 24V LED driver.
2. **Connect to Light:** Connect the JST female port of the sensor control unit to your LED light fixture.
3. **24V System Note:** If using a 24V driver, the product includes 12V to 24V conversion cables. Connect these conversion cables between the 12V JST male/female plugs and your 24V power supply or light fixture as shown in the diagram.

4.3 Mounting the Sensor

This model is designed for surface mounting. The sensor should be positioned where it can detect the opening and closing of the cabinet or closet door.

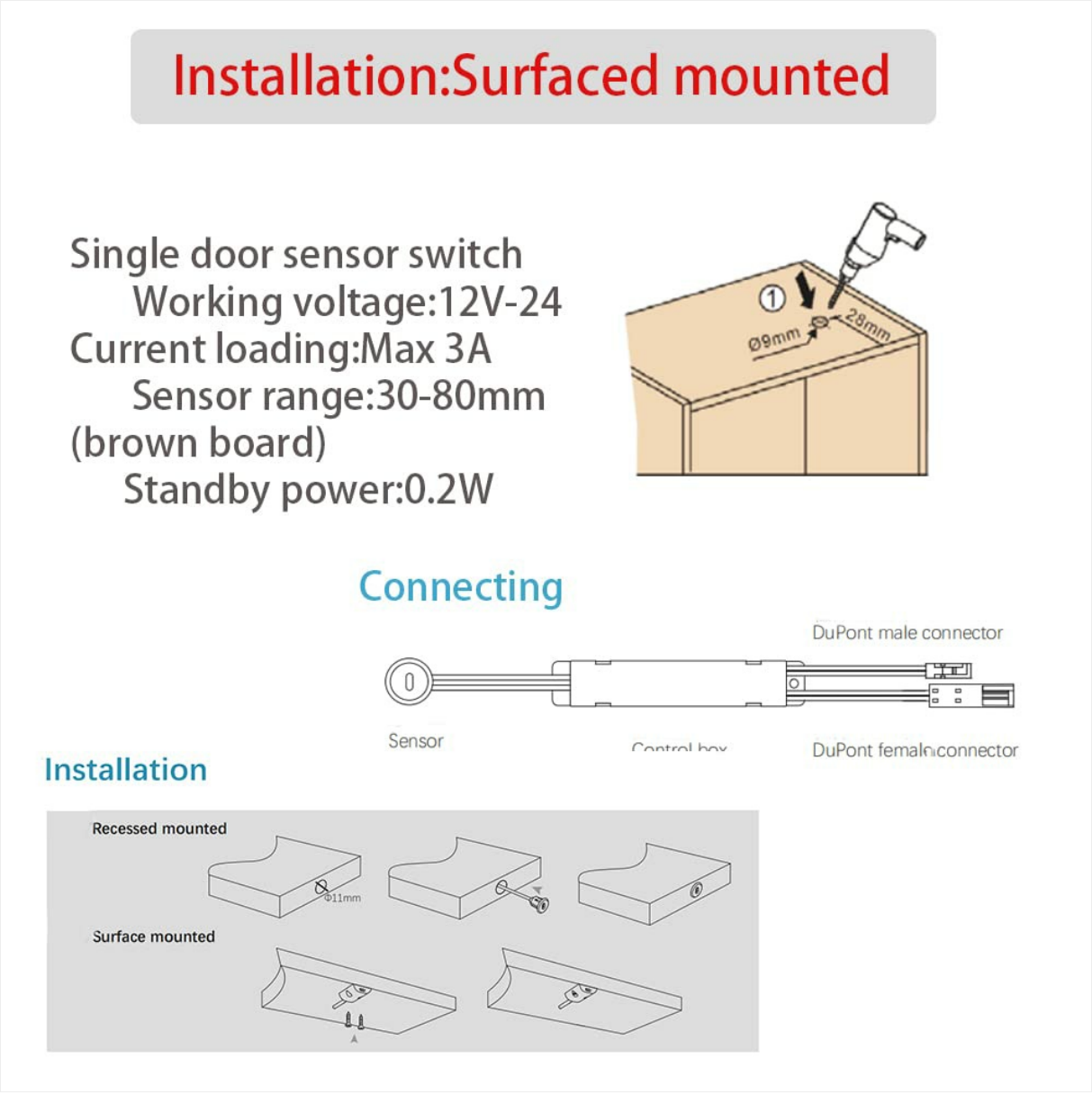

Image: Surface mounted installation diagram for the VST Motion Sensor Switch. It shows the sensor unit being mounted on a surface, with a drill bit indicating a 9mm hole for wiring, and outlines for both recessed and surface mount options.

Image: Various views of the VST Motion Sensor Switch head, showing its compact design and mounting holes from different angles.

For visual guidance on connection and operation, please refer to the video below:

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Video: This video demonstrates the connection process of the VST Motion Sensor Switch with a power driver and an LED light, followed by a demonstration of its door-activated functionality in a cabinet setting.

5. Operating Instructions

The VST Motion Sensor Switch operates automatically based on door movement.

- **Automatic On:** When the cabinet or closet door is opened, the infrared sensor detects the change and automatically turns on the connected LED lights.
- **Automatic Off:** When the cabinet or closet door is closed, the sensor detects the door's presence and automatically turns off the LED lights.
- **Door-Activated:** This switch is specifically designed for door-activated operation. It responds only to the opening and closing of doors within its sensing range.

Image: Application examples of the VST Motion Sensor Switch installed in various closets and cabinets, demonstrating how the lights illuminate when the doors are open.

6. Maintenance

The VST Motion Sensor Switch requires minimal maintenance.

- **Cleaning:** Gently wipe the sensor lens with a soft, dry cloth to remove dust or debris. Do not use abrasive cleaners or solvents.
- **Connection Check:** Periodically check all electrical connections to ensure they are secure.
- **Avoid Obstructions:** Ensure the sensor's path is clear and not obstructed by objects that could interfere with its detection capabilities.

7. Troubleshooting

If you encounter issues with your VST Motion Sensor Switch, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Lights do not turn on when door opens.	No power to the system. Loose connections. Sensor obstructed or misaligned. Incorrect voltage/wiring.	Check power supply to the LED driver. Verify all JST connections are secure. Ensure sensor is clean and positioned correctly to detect door movement (30-80mm range). Confirm correct 12V/24V wiring, using conversion cables for 24V systems if necessary.
Lights do not turn off when door closes.	Sensor obstructed or misaligned. Sensor malfunction.	Ensure the door fully covers the sensor when closed and no objects are interfering. Test the sensor by manually blocking and unblocking it. If the issue persists, contact support.
Lights flicker or are dim.	Insufficient power supply. Overloaded circuit. Faulty LED light.	Ensure your LED driver provides adequate power for all connected lights. Verify total wattage does not exceed 60W and current does not exceed 3A. Test with a different LED light to rule out light fixture issues.

8. Warranty and Support

VST provides a 2-year warranty for this product. If you have any questions, concerns, or require assistance with your VST Motion Sensor Switch, please contact our customer service team. We are committed to providing reliable after-sales support.

For support, please refer to the contact information provided with your purchase or visit the official VST Lighting website.