

JUJIANG JS-DG

JUJIANG JS-DG Universal Vehicle Sensor Instruction Manual

For Automatic Gate Opener Systems

1. PRODUCT OVERVIEW

The JUJIANG JS-DG Universal Vehicle Sensor is designed to provide automatic gate opening functionality for various gate opener systems. It detects vehicle motion within its magnetic field, enabling hands-free exit from your property.

- **Automatic Sensing:** Detects vehicles in motion within a magnetic field range of 2 to 12 feet, triggering the gate to open.
- **Versatile Compatibility:** Compatible with JUJIANG automatic gate openers and most third-party brands such as Mighty Mule, Ghost Controls, and LiftMaster. Supports 12-24VDC or 12-24VAC accessory power and Normal Open & Dry contact signal input.
- **Smart Design:** Utilizes changes in the earth's magnetic field caused by metal mass movements. Features an adjustable sensitivity range from 2 to 12 feet via a knob. Includes a cable gland for water ingress prevention and cable protection.

Vehicle Sensor Exit Wand

Automatically opens your gate when vehicle motion is detected

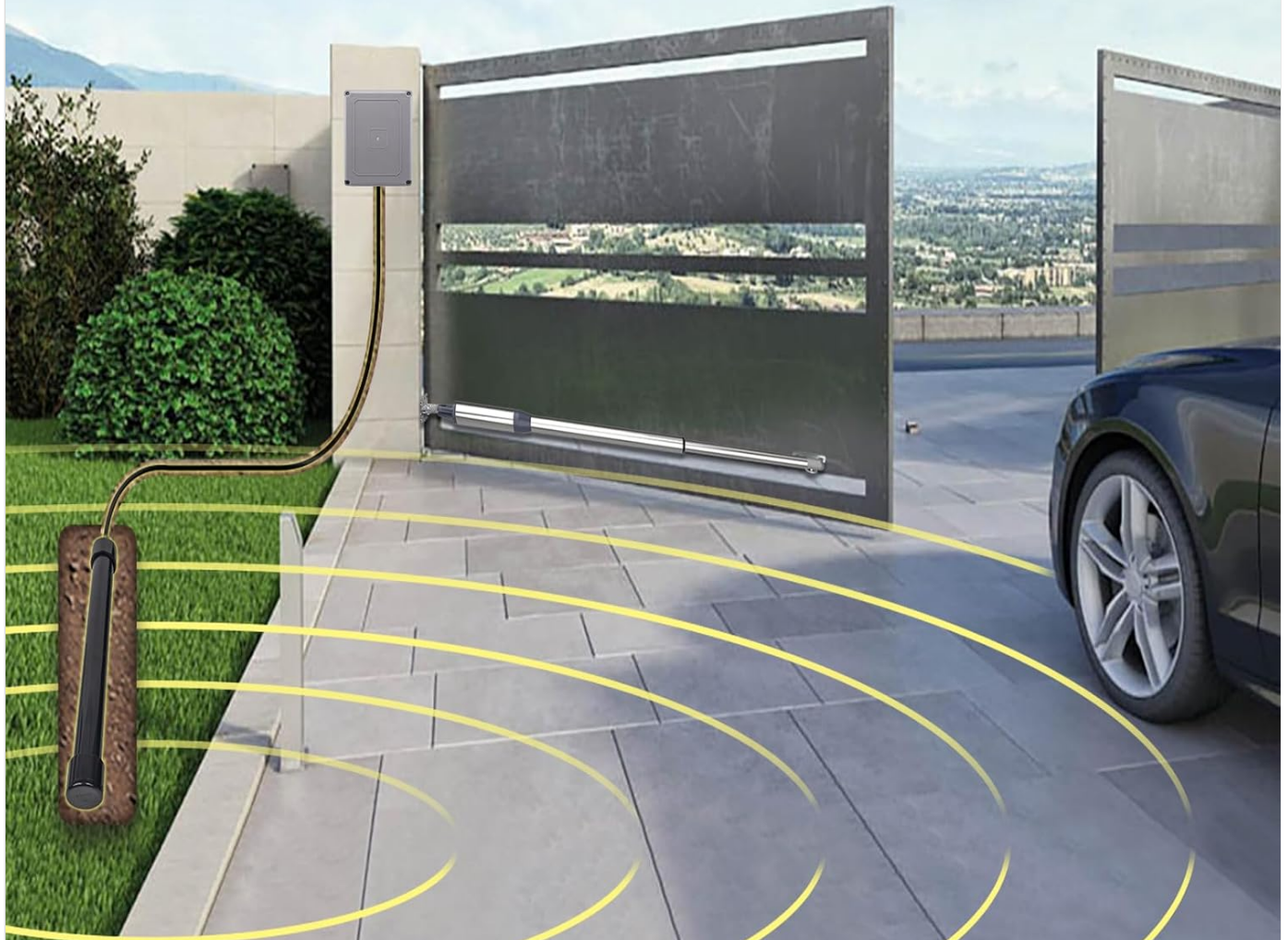


Image 1.1: The JUJIANG JS-DG Vehicle Sensor Exit Wand automatically opens your gate when vehicle motion is detected.

2. PACKAGE CONTENTS

Verify that all components are present in the package:

JS-DG Parts List



- ① 1 × Wand Sensor with 50ft. (15m) 5-Core Cable
- ② 1 × Range Adjustment Board (Simply adjust sensitivity by turning of a knob)
- ③ 1 × User manual(Simple DIY installation with User manual)

Image 2.1: JS-DG Parts List.

1. 1 x Wand Sensor with 50ft (15m) 5-Core Cable
2. 1 x Range Adjustment Board
3. 1 x User Manual

3. INSTALLATION GUIDE

Proper installation is crucial for optimal performance. Follow these steps carefully:

3.1 Site Preparation

- Install the wand on the same side of your gate as the control box.
- Position the wand at least 25 feet away from the gate for optimal performance. The recommended installation distance is 13-45 feet from the gate.
- Bury the wand 1 inch deep into the ground.

- Ensure the wand is buried 2 feet from the driveway edge.
- No earth grounding is required for this installation.

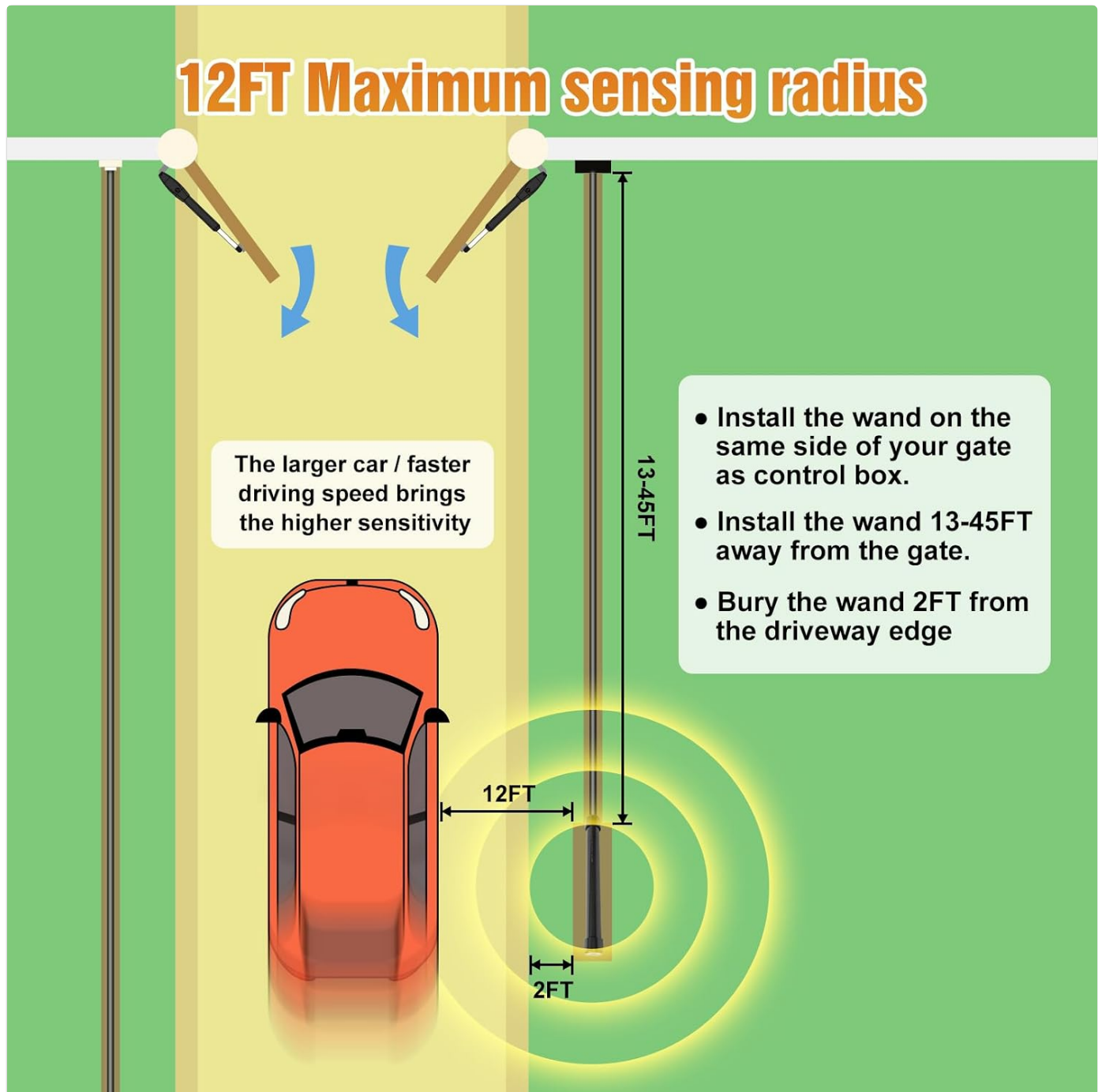


Image 3.1: Recommended installation parameters for the JS-DG sensor.

3.2 Wiring Instructions

Connect the Driveway Gate Exit Wand Sensor directly to the control board of your gate operator. Refer to the diagrams below for common wiring configurations.



Image 3.2: Wiring diagrams for various gate opener systems.

- Ensure the gate operator supports 12-24VDC or 12-24VAC accessory power and Normal Open & Dry contact signal input.
- Consult your gate opener's manual for specific terminal labels if they differ from the diagrams.

4. OPERATING INSTRUCTIONS

The JS-DG sensor operates by detecting changes in the earth's magnetic field. Its sensitivity can be adjusted to suit your specific needs.

4.1 Sensitivity Adjustment

The sensitivity of the magnetic field detection can be adjusted using the knob on the Range Adjustment Board. This allows you to customize the detection range from 2 to 12 feet.

- Turn the knob clockwise to increase sensitivity and detection range.
- Turn the knob counter-clockwise to decrease sensitivity and detection range.
- Adjust the sensitivity to prevent false detections from smaller objects like lawnmowers, while ensuring reliable detection of vehicles.

Adjustable sensing range

Adjustable sensing range to prevent false sensing

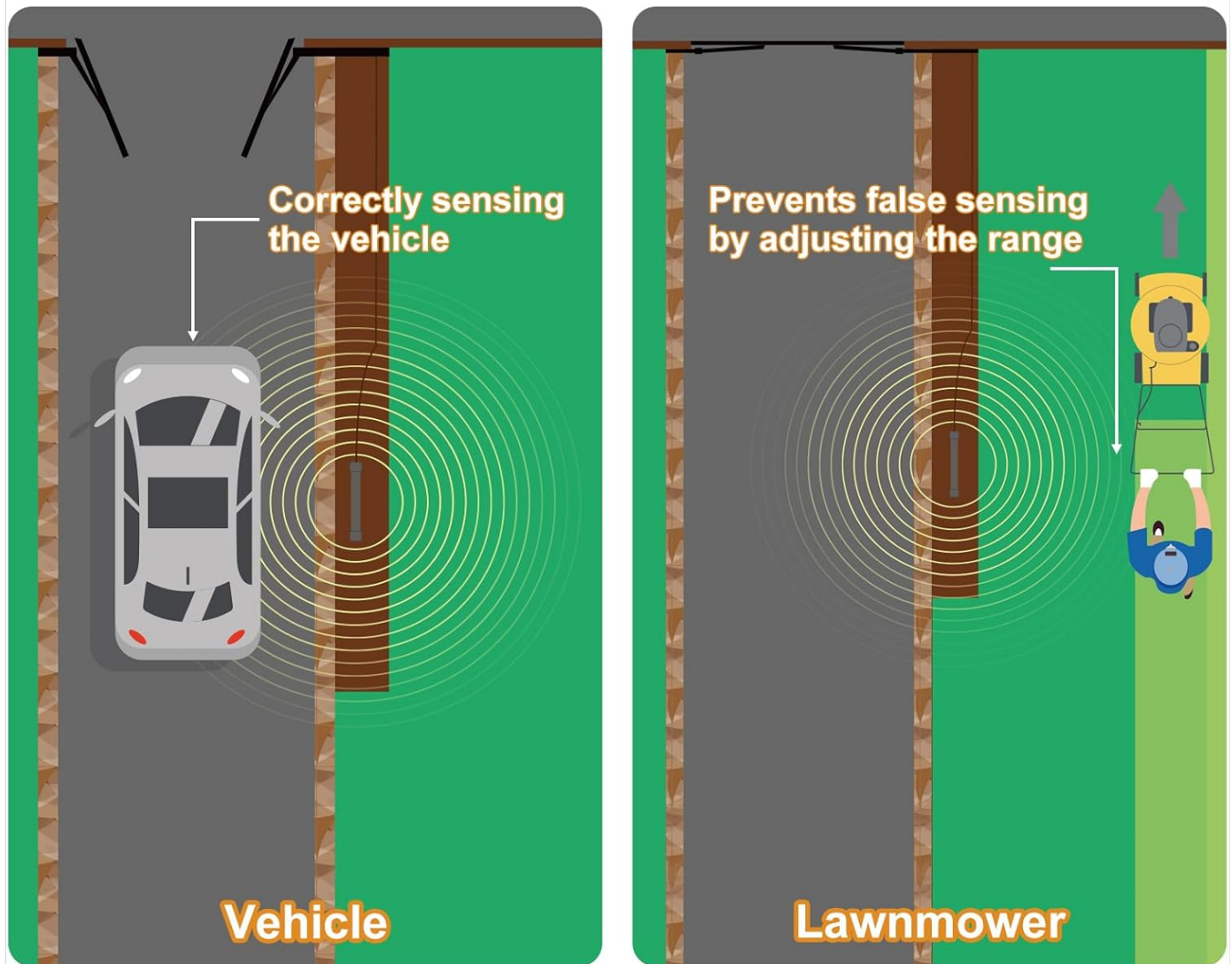


Image 4.1: Adjustable sensing range to prevent false detections.



Image 4.2: Range Adjustment Board.

4.2 Vehicle Detection

The sensor is designed to detect various types of vehicles:

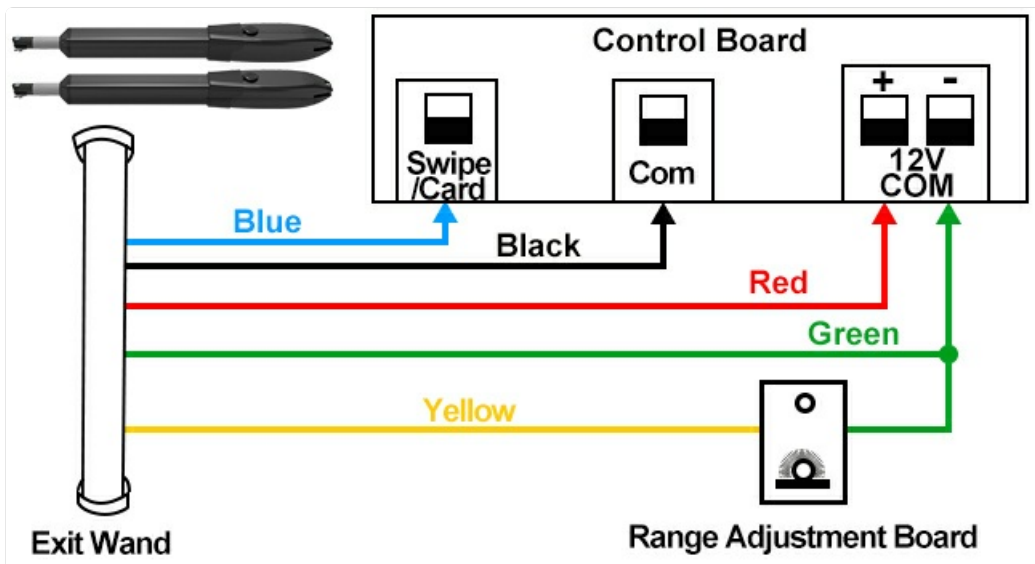


Image 4.3: Detectable Vehicles (Trucks, Cars, Motorcycles).

- Higher sensitivity is observed with larger vehicles or increased driving speeds.

5. MAINTENANCE

The JUJIANG JS-DG vehicle sensor is designed for durability and minimal maintenance. Follow these guidelines to ensure long-term performance:

- **Cable Integrity:** Periodically inspect the exposed portions of the 50ft cable for any signs of damage, wear, or rodent activity. Ensure the cable gland remains secure to prevent water ingress.
- **Environmental Protection:** The wand is designed to be buried underground and is weather-resistant. Ensure the burial depth and distance from the driveway edge are maintained to protect it from surface damage.
- **Sensitivity Check:** If you notice changes in detection performance, re-evaluate the sensitivity setting using the adjustment knob on the Range Adjustment Board.
- **Cleanliness:** Keep the area around the buried wand clear of large metal debris or objects that could interfere with its magnetic field detection.



Image 5.1: Cable gland for water ingress prevention.

6. TROUBLESHOOTING

If you encounter issues with your JUJIANG JS-DG vehicle sensor, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Gate does not open when vehicle approaches.	• Incorrect wiring. • Sensitivity set too low. • Wand buried too deep or too far from driveway. • Interference from nearby metal objects. • Faulty sensor or control board connection.	• Verify all wiring connections against the provided diagrams. • Increase the sensitivity using the knob on the Range Adjustment Board. • Check wand placement according to installation guidelines (1" deep, 2ft from driveway edge, 13-45ft from gate). • Remove any large metal objects near the wand's detection area. • Test the sensor's output signal at the control board. If issues persist, contact customer support.
Gate opens unexpectedly (false sensing).	• Sensitivity set too high. • Small metal objects or animals triggering the sensor.	• Decrease the sensitivity using the knob on the Range Adjustment Board. • Ensure the area around the wand is clear of small metal debris.
Intermittent operation.	• Loose wiring connections. • Environmental factors (e.g., heavy rain, electrical interference). • Damaged cable or wand.	• Check and secure all wiring connections. • Ensure the cable gland is tight. • Inspect the cable for damage. If damage is found, replacement may be necessary.

7. SPECIFICATIONS

Feature	Detail
Model	JS-DG
Detection Method	Magnetic Field Sensing
Sensing Range	Adjustable from 2 to 12 feet
Cable Length	50 feet (15 meters)
Cable Type	5-Core, Weather-Resistant
Compatibility	JUJIANG, Mighty Mule, Ghost Controls, LiftMaster, and other 12-24VDC/VAC gate operators with Normal Open & Dry contact signal input.
Power Requirement	12-24VDC or 12-24VAC (from gate opener control board)
Item Weight	5.44 pounds
Product Dimensions	7 x 4 x 17 inches
Color	Black

8. WARRANTY AND CUSTOMER SUPPORT

JUJIANG is committed to providing high-quality products and excellent customer service.

- **Warranty:** This product comes with a 12-month warranty from the date of purchase.
- **Returns & Exchanges:** We offer a 30-day worry-free exchange and return policy.
- **Technical Support:** Lifetime technical support is available for all JUJIANG products.

If you have any questions, require assistance with installation, or need troubleshooting help, please do not hesitate to contact JUJIANG customer service. Our specialists are available to provide professional and timely solutions.

For contact information, please refer to the official JUJIANG website or the contact details provided with your purchase documentation.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question