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› [TOPENS KD702 Automatic Light-Duty Dual Swing Gate Opener Instruction Manual](#)

TOPENS KD702

TOPENS KD702 Automatic Light-Duty Dual Swing Gate Opener

Instruction Manual

1. SAFETY INFORMATION

Read all instructions carefully before installation and use. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- **Obstruction Detection:** The system is equipped with integrated stop and reverse functions in case of obstruction. Ensure the path of the gate is clear before operation.
- **Photocell Beam System:** An infrared photocell beam system is included for enhanced safety. Install and align it correctly to prevent the gate from closing on obstacles.
- **Flashing Light:** A flashing light is provided to indicate gate movement, increasing awareness for pedestrians and vehicles.
- **Manual Release:** In case of power failure or remote control loss, use the manual release key to operate the gate manually. Keep the key accessible but secure.
- **Children and Pets:** Keep children and pets away from the gate area during operation. Do not allow children to play with the gate controls.
- **Professional Installation:** While designed for DIY installation, if you are unsure about any steps, consult a qualified professional.

2. PRODUCT OVERVIEW

The TOPENS KD702 is an automatic light-duty dual swing gate opener designed for residential and light commercial applications. It features two 24V DC motors and is suitable for gates up to 3.6 meters (12 feet) long or 140 kg (300 lbs) per gate leaf. The system offers reliable performance with advanced safety features and flexible power options.

Key Features:

- **Durable Construction:** Extendable aluminum swing arms ensure superior performance and longevity.
- **Flexible Installation:** Supports both pull-to-open (inward swing) and push-to-open (outward swing) configurations.

- **Multiple Power Modes:** Operates directly on 230V AC. Can be supplemented with a 24V backup battery and/or solar panel (not included) for enhanced reliability.
- **Advanced Safety:** Features electromagnetism limit switches, soft start/soft stop, obstruction detection with auto-reverse, infrared photocell beam, and a flashing warning light.
- **Adjustable Settings:** Customizable auto-close time (0-99s) and holding force.
- **Wide Compatibility:** Works with various gate materials including steel, wood, vinyl, panel, tube, and chain link.

Why choose TOPENS ?

OVER 25 YEARS of experience specialized in gate automation industry, **TOPENS** has become one of the well-known and trusted consumer brands in the UK.

Advanced technology to deliver safe, smart and reliable products, providing the **HIGH-QUALITY** gate openers & accessories with **LONG-LASTING** performance.

LIFE-TIME tech support. You will have an **EXCLUSIVE** customer support representative to assist you with all of your questions.

Gate Capability for Each Arm

Gate Length	Weight Capacity
1.2m	140kg
1.8m	110kg
2.4m	90kg
3m	70kg
3.6m	50kg

Self-closing Setting

Soft Start & Soft Stop

Obstacle Adjusting

TOPENS Advanced Security Code

**Gate Swing In
Pull-to-open Installation Mode**

**Gate Swing Out
Push-to-open Installation Mode**

This diagram highlights the key features of the TOPENS KD702, such as self-closing settings, soft start and stop functionality, obstacle adjustment, advanced security coding, and the two available gate swing installation modes (pull-to-open and push-to-open).

STRONG POWERFUL MOTOR

Easy DIY Installation with Assembly Parts Included



An internal view of the KD702 motor, detailing its robust components. It shows the reliable electromagnetism limit switch for easy adjustment, a smart chip for ultimate safety protection, and a manual release key for power outages. The image also points out the 7.5m extension 5 conductor cable for easy actuator arm connection, and highlights features like waterproof design, a wide working temperature range (-20°C to +50°C), and quiet operation (less than 50dB).

3. PACKAGE CONTENTS

The TOPENS KD702 kit includes all necessary components for installation and operation. Please check the package carefully upon receipt to ensure all items are present.

- 2 x Gate Opener Actuators (Motors)
- 1 x Control Box
- 2 x Remote Controls (M12)
- 1 x Infrared Photocell Beam System (TC102)
- 1 x Flashing Warning Light (JD24VY)
- Mounting Hardware (brackets, bolts, screws, etc.)
- Manual Release Keys
- Instruction Manual

4. SETUP AND INSTALLATION

The TOPENS KD702 is designed for straightforward installation. Follow these steps carefully. No welding is required, and common tools are sufficient.

4.1 Pre-Installation Checklist:

- Ensure your gate is in good working condition, swinging freely without binding.
- Verify gate dimensions and weight are within the KD702's capacity (max 3.6m / 140kg per leaf).
- Gather necessary tools (e.g., drill, wrenches, measuring tape, level).
- Plan the wiring path for AC power and accessories.

4.2 Mounting the Actuators:

The KD702 supports two installation modes: pull-to-open (gate swings inwards) and push-to-open (gate swings outwards). Choose the appropriate mode for your gate.



This comprehensive diagram illustrates the gate capacity for each arm of the KD702, along with detailed schematics for both pull-to-open (inward swing) and push-to-open (outward swing) installation modes. It also shows the wiring for Power Mode 1 (AC only) and Power Mode 2 (AC with backup batteries), and the connection points for various optional accessories like the photocell, warning light, and external receiver.

Refer to the detailed diagrams in the manual for precise mounting point measurements (A, B, C dimensions) to ensure optimal gate travel and performance. Securely attach the mounting brackets to the gate post and gate frame, then connect the actuators.

4.3 Wiring the Control Box:

Connect the actuator motors, AC power, and safety accessories (photocell, flashing light) to the control board inside the control box. Ensure all connections are secure and follow the wiring diagram provided in the full manual.

Supported Power Modes

— Multiple & Reliable Ways for Your Selection



AC Electricity

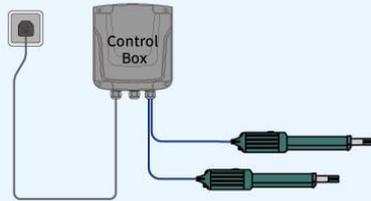


Back-up Battery

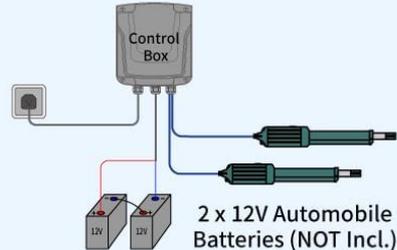


Solar Panels

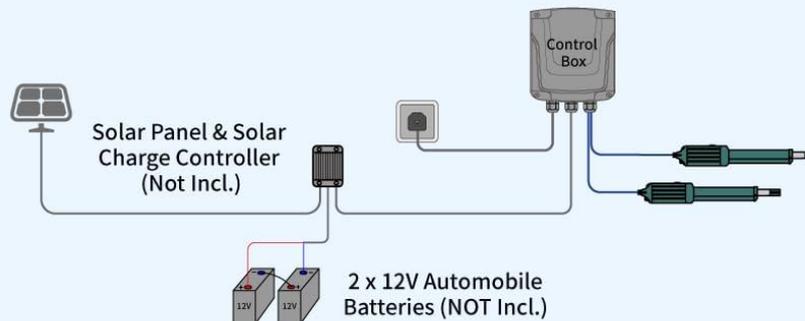
Power Mode 1 Use AC Electricity Only



Power Mode 2 By AC Electricity and Back-up Batteries



Power Mode 3 By AC Electricity, Solar Panels and Back-up Batteries



This diagram illustrates the three supported power modes for the KD702: Power Mode 1 uses AC electricity only; Power Mode 2 uses AC electricity with two 12V automobile backup batteries (not included); and Power Mode 3 uses AC electricity, solar panels, and backup batteries (solar panel and charge controller not included).

4.4 Limit Switch Adjustment:

Adjust the electromagnetism limit switches on each actuator to define the open and closed positions of your gate. This is crucial for proper operation and preventing over-travel.

4.5 Optional Accessories:

The KD702 is compatible with a range of TOPENS accessories to enhance functionality and convenience, such as wireless keypads (TKP3), external receivers (ERM12), and vehicle sensors (TEW3).

Compatible Accessories

Available at TOPENS Online Store



TC196 Tuya WiFi Fernbedienung



TC188 Universale Tastatur



TC175P Kabelgebundene Tastatur



TKP3 Kabellose Tastatur



M12 Fernbedienung



ERM12 Externer Empfänger



TC148 Waterproof Wall Push Button



TEW3 Fahrzeugsensor



ET24 Electric Gate Lock



TRF3 Reflection Photocell Sensor



TC102 Lichtschranke



JD24VY Alarmleuchte

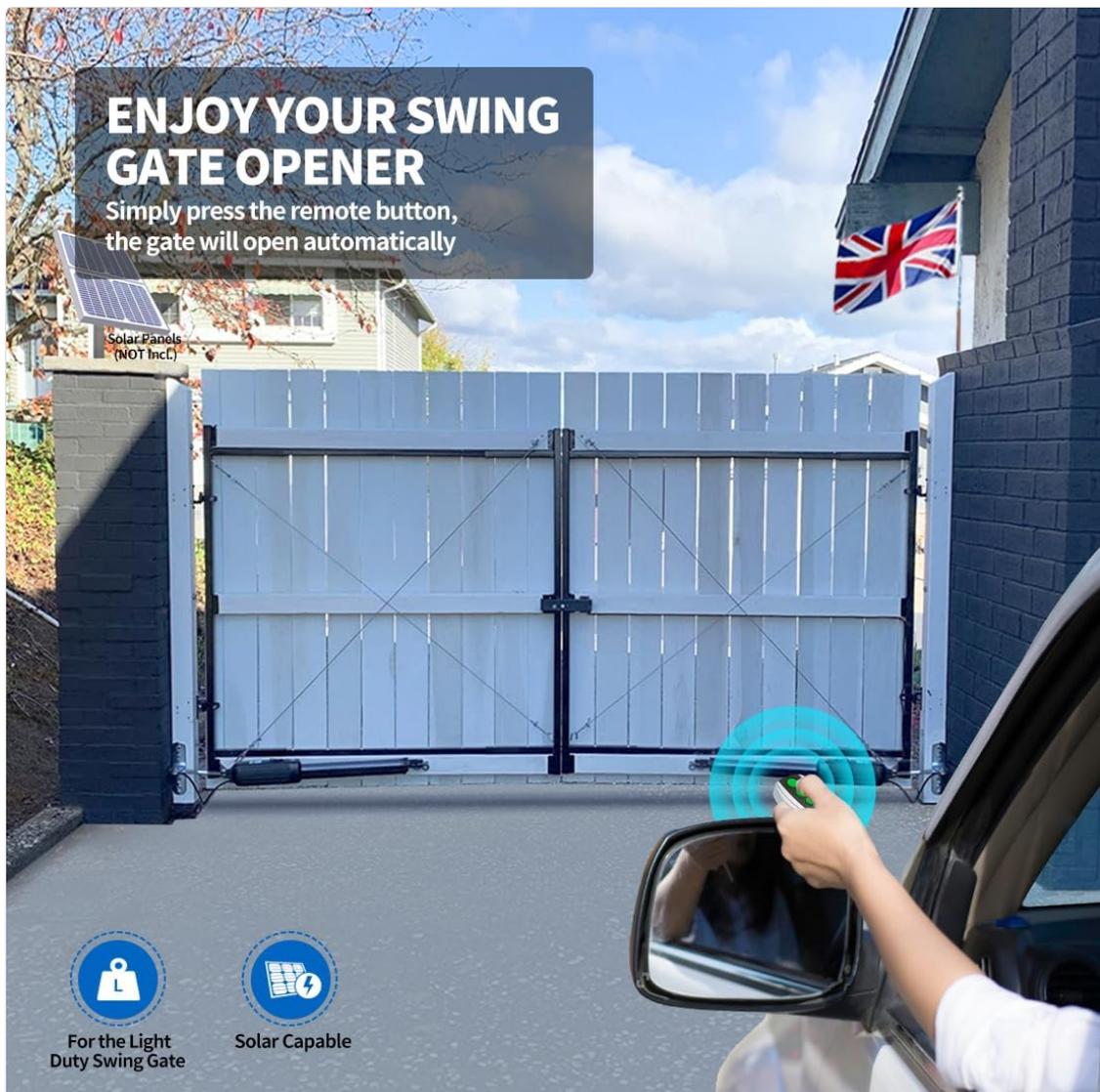
A selection of compatible TOPENS accessories available for the KD702, including various remote controls (M12), wireless and wired keypads (TC188, TC175P, TKP3), external receivers (ERM12), push buttons (TC148), vehicle sensors (TEW3), electric gate locks (ET24), reflection photocell sensors (TRF3), and warning lights (JD24VY).

5. OPERATING INSTRUCTIONS

Once installed and configured, operating your TOPENS KD702 gate opener is simple.

5.1 Remote Control Operation:

Press the designated button on your M12 remote control to open or close the gate. A single press will initiate the gate movement. If the gate is already moving, a press will stop it. Another press will reverse its direction.



This image shows a user conveniently opening their swing gate with a remote control from inside their vehicle. The gate opener is designed for light-duty swing gates and is solar capable (solar panel not included).

5.2 Automatic Closing Function:

The KD702 features an adjustable auto-close timer (0-99 seconds). After the gate fully opens, it will automatically close after the set delay. This feature can be enabled or disabled and adjusted via the control board settings.

5.3 Soft Start and Soft Stop:

The gate opener is designed with soft start and soft stop functionality, ensuring smooth and quiet operation, which extends the lifespan of the motor and gate hardware.

5.4 Manual Release:

In the event of a power outage or if the remote control is lost, insert the manual release key into the actuator's lock cylinder and turn it to disengage the motor. This allows you to open or close the gate by hand.

6. MAINTENANCE

The TOPENS KD702 is designed for minimal maintenance. Regular checks will ensure optimal performance and longevity.

- **Monthly:** Inspect the gate and hinges for any signs of wear or damage. Ensure the gate moves freely without obstruction when manually operated.

- **Quarterly:** Check all mounting hardware for tightness. Verify that the photocell beams are clean and properly aligned. Test the obstruction detection feature by placing a soft object in the gate's path.
- **Annually:** Lubricate any moving parts of the gate (hinges, pivots) as recommended by your gate manufacturer. Inspect wiring for any signs of damage or fraying.
- **Battery Check (if applicable):** If using backup batteries, check their charge level and condition periodically.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions. For more complex problems, contact TOPENS customer support.

Problem	Possible Cause	Solution
Gate does not respond to remote.	Dead remote battery, remote not programmed, power issue to opener.	Replace remote battery. Reprogram remote. Check power supply to control box.
Gate opens but does not close.	Photocell beam obstructed or misaligned, auto-close disabled.	Clear obstruction from photocell path. Clean and realign photocells. Enable auto-close function in control board settings.
Gate stops or reverses unexpectedly.	Obstruction detected, limit switch misadjusted.	Remove any obstructions. Check and readjust limit switches for open/closed positions.
Gate operates slowly or with difficulty.	Low power, gate hinges stiff, motor issue.	Check power supply. Lubricate gate hinges. Contact support if motor issue is suspected.
Flashing light not working.	Loose connection, faulty bulb/LED.	Check wiring connections to the control box. Replace flashing light if necessary.

8. SPECIFICATIONS

Specification	Detail
Model	KD702
Manufacturer	Hangzhou Sanyuan Tools Co.,Ltd
Max. Gate Length (per leaf)	3.6 meters (12 feet)
Max. Gate Weight (per leaf)	140 kg (300 lbs)
Motor Voltage	24V DC
Power Supply	230V AC (main), 24V Battery / Solar (optional backup)
Product Dimensions (L x W x H)	85.5 x 8.4 x 10.4 cm
Product Weight	16.5 kilograms

Specification	Detail
Included Batteries	6 CR2 (for remotes/accessories)
Battery Composition	Lithium metal
Operating Temperature	-20°C to +50°C
Noise Level	Less than 50dB

9. WARRANTY AND SUPPORT

TOPENS is committed to providing excellent customer service and support for your KD702 gate opener.

- **Warranty:** The TOPENS KD702 comes with a 12-month warranty from the date of purchase.
- **Technical Support:** Enjoy lifetime technical support. For any installation or operational questions, please contact TOPENS customer service.
- **Returns and Exchanges:** TOPENS offers a free 30-day product return and exchange service.
- **Contact:** For comprehensive system solutions and support, visit the official TOPENS website to contact customer service.