

Somfy LT50 CSI RTS HELIOS 30/17

Somfy LT50 CSI RTS HELIOS 30/17 Motor User Manual

For Roller Shutters and External Blinds

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Somfy LT50 CSI RTS HELIOS 30/17 motor. Please read these instructions carefully before proceeding with installation or use. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The Somfy LT50 CSI RTS HELIOS 30/17 is a 230V radio motor designed for controlling roller shutters and external blinds. It features integrated RTS radio technology for remote control operation and an emergency override system for manual control during power outages.

Key Features:

- 230V RTS radio motor for roller shutters and external blinds.
- Mechanical limit switch cage with quick adjustment via push buttons.
- Cage capacity: 34 turns.
- Limit switch button access from both sides of the C.S.I. casing using a supplied adjustment tool.
- Programmable "my" preferred intermediate position.
- Central bore diameter 12 x 20 mm with a 24.5 x 2 mm shoulder.
- Square 6 mm or hexagonal 7 mm crank shaft.
- Reduction ratio: 1/27.
- Radio frequency: 433.42 MHz with 16 million coding possibilities and rolling code.
- Stores up to 12 control points or group levels, including 3 RTS sensors.
- Compatible with Somfy RTS transmitters and EOLIS 3D RTS, EOLIS RTS, SUNIS RTS, SOLIRIS RTS sensors.
- Supplied with a detachable cable for easy maintenance.
- Integrated emergency control for manual operation during power failures.



Figure 1: Somfy LT50 CSI RTS HELIOS 30/17 Motor. This image shows the compact design of the motor, highlighting its casing and cable connection point.

3. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Installation must be performed by a qualified professional in accordance with local electrical codes and regulations.
- Disconnect power before performing any installation, maintenance, or repair work.
- Ensure the motor is correctly grounded.
- Do not allow children to operate the motor or play with controls.
- Keep hands and loose clothing clear of moving parts during operation.
- Do not modify the motor or its components. Use only genuine Somfy parts.
- If the power cable is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

4. INSTALLATION AND SETUP

4.1 Mounting the Motor

Mount the motor securely within the roller shutter or blind tube. Ensure proper alignment and that the motor is firmly seated. The motor is designed for integration into the tube, with specific dimensions for the central bore and crank shaft.

4.2 Electrical Connection

Connect the motor to a 230V power supply. The motor is supplied with a cable. Ensure all connections are secure and insulated. Refer to the wiring diagram provided with the motor packaging for specific connection details. The cable is detachable for easier maintenance.

4.3 Limit Switch Adjustment

The motor features mechanical limit switches, adjustable via push buttons. An adjustment tool is supplied for accessing these buttons from both sides of the C.S.I. casing.

1. Power on the motor.
2. Use the adjustment tool to access the limit switch buttons.
3. Operate the motor to the desired upper and lower limits.
4. Press the corresponding limit switch buttons to set the upper and lower stop positions. The cage capacity is 34 turns.
5. Test the limits to ensure they are correctly set.

4.4 Programming the "My" Position

The motor allows you to program a preferred intermediate position, referred to as the "my" position.

1. Move the shutter/blind to your desired intermediate position using your RTS remote control.
2. Press and hold the "my" button on your remote control until the shutter/blind jogs slightly. This saves the position.
3. To recall this position, simply press the "my" button briefly.

5. OPERATION

5.1 Remote Control Operation

The motor is operated wirelessly using a compatible Somfy RTS remote control. It can store up to 12 control points or group levels, including 3 RTS sensors.

- **Up Button:** Moves the shutter/blind upwards.
- **Down Button:** Moves the shutter/blind downwards.
- **"My" Button:** Stops the shutter/blind during movement or recalls the programmed "my" intermediate position.

5.2 Emergency Control

In the event of a power failure, the integrated emergency control allows for manual operation of the shutter or blind. This feature ensures you can still raise or lower your covering even without electricity. Consult the specific instructions provided with the motor for details on engaging the emergency control mechanism, typically involving a crank handle connected to the square 6 mm or hexagonal 7 mm shaft.

6. MAINTENANCE

The Somfy LT50 CSI RTS HELIOS 30/17 motor is designed for minimal maintenance. However, regular checks can ensure its longevity and optimal performance.

- **Cleaning:** Keep the motor area clean and free from dust and debris. Do not use abrasive cleaners or solvents.
- **Cable Inspection:** Periodically inspect the power cable for any signs of damage. The detachable cable facilitates easier replacement if necessary.
- **Lubrication:** The motor is factory-lubricated and does not require additional lubrication.
- **Professional Inspection:** It is recommended to have the motor and associated system inspected by a qualified professional every few years.

7. TROUBLESHOOTING

If you encounter issues with your Somfy LT50 CSI RTS HELIOS 30/17 motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not respond to remote control.	No power supply. Remote control battery is dead. Motor not paired with remote.	Check power connection. Replace remote control battery. Refer to remote control instructions for pairing procedure.
Shutter/blind stops at incorrect positions.	Limit switches incorrectly set.	Re-adjust the limit switches as described in Section 4.3.
Motor makes unusual noise.	Obstruction in the shutter/blind path. Motor malfunction.	Check for obstructions and remove them. If noise persists, contact a qualified technician.
Emergency control does not work.	Improper engagement or mechanical issue.	Ensure the crank handle is correctly engaged with the shaft. If issues persist, contact support.

If the problem persists after attempting these solutions, please contact Somfy customer support or a qualified technician.

8. SPECIFICATIONS

Model	LT50 CSI RTS HELIOS 30/17
Manufacturer	SOMFY FRANCE
Voltage	230V
Radio Frequency	433.42 MHz
Reduction Ratio	1/27
Limit Switch Type	Mechanical, push-button adjustable
Cage Capacity	34 turns
Central Bore Diameter	12 x 20 mm with 24.5 x 2 mm shoulder
Crank Shaft Compatibility	Square 6 mm or Hexagonal 7 mm
Weight	3.7 kilograms
Batteries Required	No (for motor operation)
ASIN	B06WLNL49F

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your Somfy dealer or visit the official Somfy website. Keep your purchase receipt as proof of purchase.

Manufacturer: SOMFY FRANCE

