

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [somfy](#) /

› [Somfy TR2-U-E-230 Mini Separation Relay User Manual](#)

somfy TR2-U-E-230 mini

Somfy TR2-U-E-230 Mini Separation Relay User Manual

Model: TR2-U-E-230 mini | Brand: Somfy

1. INTRODUCTION

1.1 Product Overview

The Somfy TR2-U-E-230 Mini is a compact separation relay designed for controlling two independent drives, typically used in applications such as roller shutters or awnings. This device allows for flush-mounted installation, integrating seamlessly into existing electrical systems. It ensures proper electrical isolation and control for connected motors.

1.2 Intended Use

This separation relay is intended for use in domestic or commercial electrical installations to manage the operation of two 230V AC motors. It is specifically designed for flush-mounted applications where space is limited. The relay facilitates central control while maintaining individual motor operation capabilities.

2. SAFETY INSTRUCTIONS

WARNING: Electrical shock hazard. Installation and maintenance must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always disconnect power to the circuit before installing, servicing, or removing the device.
- Ensure that the supply voltage matches the device's rated voltage (230V AC).
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- Verify all connections are secure and correctly wired to prevent short circuits or malfunctions.
- This device is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. PRODUCT COMPONENTS

3.1 Package Contents

- 1x Somfy TR2-U-E-230 Mini Separation Relay

- Installation Guide (this document)

3.2 Device Overview



Figure 1: Somfy TR2-U-E-230 Mini Separation Relay

This image displays the Somfy TR2-U-E-230 Mini separation relay. It features blue screw terminals for electrical connections on the top, bottom, and left sides. The central orange-colored module has the Somfy logo and model number 'R2-U-E-230 mini' printed on it. Electrical specifications like 'AC 230V~, 50Hz, 3A' and connection labels 'M1', 'M2', 'L', 'N' are also visible, indicating its function for controlling two motors.

4. INSTALLATION

The Somfy TR2-U-E-230 Mini is designed for flush-mounted installation. Follow these steps carefully:

1. **Power Disconnection:** Before starting any electrical work, ensure the main power supply to the circuit is completely disconnected at the fuse box or circuit breaker.
2. **Mounting Location:** Choose a suitable flush-mounted box or enclosure that provides adequate space for the relay and its wiring, ensuring it is protected from moisture and physical damage.
3. **Wiring Connections:** Refer to the wiring diagram (often found on the device itself or in a separate diagram) and the labels on the relay terminals. Connect the power supply (Live 'L' and Neutral 'N') and the motor cables (M1, M2) to the corresponding screw terminals. Ensure all connections are tight and secure.
 - **L:** Live input (230V AC)
 - **N:** Neutral input
 - **M1:** Connections for Motor 1 (Up/Down)
 - **M2:** Connections for Motor 2 (Up/Down)
 - **Central Input:** The device supports a central input for simultaneous control of both motors. Connect the central control signal to the designated terminal if applicable.
4. **Insulation:** After wiring, ensure all exposed wires are properly insulated.
5. **Secure Device:** Carefully place the relay into the flush-mounted box and secure it.
6. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.

5. OPERATION

The Somfy TR2-U-E-230 Mini separation relay enables manual control of up to two connected motors. Operation typically involves sending control signals (e.g., from switches) to the relay's inputs.

- **Individual Motor Control:** Each motor (M1 and M2) can be controlled independently using dedicated switches connected to the relay's outputs for each motor. This allows for individual 'Up' and 'Down' commands for Motor 1 and Motor 2.
- **Central Control:** If wired for central control, a single command can operate both motors simultaneously. The relay's design ensures that individual control remains possible even with a central input connected.
- **Safety Feature:** The separation relay prevents conflicting commands from reaching the motors, ensuring smooth and safe operation, especially when both individual and central controls are present.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	TR2-U-E-230 mini
Mounting Type	Flush-mounted
Nominal Voltage	230 V AC
Frequency	50 Hz
Rated Current	5 A
Connectable Motors	2
Central Input	Yes
Secondary Post Input	No
Contact Material	Silver
Contact Type	1NO 1NC
Power	1150 Watts
Coil Voltage	230 Volts

7. TROUBLESHOOTING

If you encounter issues with your Somfy TR2-U-E-230 Mini separation relay, consider the following common solutions:

- **No Motor Response:**
 - Check if the main power supply to the circuit is active.
 - Verify all wiring connections are secure and correctly terminated according to the diagram.
 - Ensure the control switches are functioning correctly.

- **Incorrect Motor Movement:**

- Review the motor wiring to ensure 'Up' and 'Down' connections are not reversed.
- Confirm that the correct control signal is being sent to the intended motor.

- **Relay Not Activating:**

- Check the input voltage to the relay (230V AC).
- Inspect the relay for any visible damage.

If problems persist after attempting these steps, it is recommended to contact a qualified electrician or Somfy customer support.

8. MAINTENANCE

The Somfy TR2-U-E-230 Mini separation relay is designed for maintenance-free operation under normal conditions. However, periodic checks can help ensure its longevity and reliable performance:

- **Visual Inspection:** Periodically inspect the device and its wiring for any signs of wear, damage, or loose connections. Ensure no dust or debris has accumulated around the terminals.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

Always disconnect power before performing any inspection or cleaning.

9. WARRANTY INFORMATION

Specific warranty details for the Somfy TR2-U-E-230 Mini separation relay are not provided within the product information. For warranty claims or information regarding spare parts availability, please refer to your purchase documentation or contact your retailer or Somfy customer service directly.

10. SUPPORT





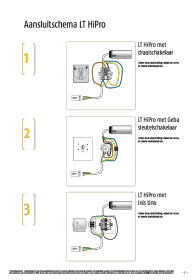

For technical assistance, installation queries, or further product information, please contact Somfy customer support or visit the official Somfy website.

Manufacturer: Somfy

Website: www.somfy.com (Please check for your regional Somfy website)



© 2023 Somfy. All rights reserved. Information subject to change without notice.

 <p>400 Series Databook</p> <p>somfy.</p>	<p>Somfy 400 Series Databook: Motors and Controls for Window Coverings</p> <p>Comprehensive databook detailing Somfy's 40mm motor range, including Sonesse® 40 AC Zigbee, PoE, RS485, WT, and RTS models, along with Altus® 40 RTS and LS 40 Wired motors. Features information on controls, hardware systems, and accessories for automated window treatments.</p>
 <p>Roll Up 28 WT</p> <p>somfy.</p>	<p>Somfy Roll Up 28 WT Installation and User Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of the Somfy Roll Up 28 WT motor, designed for automated window coverings in indoor environments. It details technical specifications, safety guidelines, and troubleshooting tips.</p>
 <p>Motor Controller 4DC IB+ WM AC</p> <p>Ref. 1871120</p> <p>somfy.</p>	<p>Somfy animeo Motor Controller 4DC IB+ WM AC Technical Specifications</p> <p>Comprehensive technical specifications, overview, installation, and functional features for the Somfy animeo Motor Controller 4DC IB+ WM AC (Ref. 1871120), including wiring diagrams and electrical characteristics.</p>
 <p>SONESSE2 40 ZIGBEE</p> <p>somfy.</p>	<p>Somfy SONESSE2 40 Zigbee Motor Installation and User Manual</p> <p>Comprehensive installation, setup, and user guide for the Somfy SONESSE2 40 Zigbee smart blind motor. Learn how to install, wire, commission, and operate your motorized window coverings for enhanced home automation.</p>
 <p>Aansluitschema LT HiPro</p> <p>somfy.</p>	<p>Somfy LT HiPro Motor Installation and Adjustment Guide</p> <p>Comprehensive guide for installing and adjusting the Somfy LT HiPro motor, including connection diagrams for various switches and step-by-step limit setting instructions.</p>
 <p>SONESSE2 28 Zigbee LI-ION</p> <p>somfy.</p>	<p>Somfy SONESSE2 28 Zigbee LI-ION: Installation and User Manual</p> <p>This comprehensive guide provides detailed instructions for the installation, setup, operation, and maintenance of the Somfy SONESSE2 28 Zigbee LI-ION motor, designed for automated window coverings and integration with smart home systems like Somfy TaHoma.</p>