

## Eltako FUA12-230V

# Eltako FUA12-230V Wireless Universal Actuator Instruction Manual

Model: FUA12-230V

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Eltako FUA12-230V Wireless Universal Actuator. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

## 2. SAFETY INFORMATION

### **WARNING: Risk of electric shock!**

- Installation and maintenance must only be performed by a qualified electrician.
- Disconnect power before performing any work on the device.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the device if it is damaged or has been exposed to moisture.
- This device is designed for indoor use only.

## 3. PRODUCT OVERVIEW

The Eltako FUA12-230V is a wireless universal actuator featuring a replaceable antenna and a surge switch relay. It provides a potential-free contact with a rating of 10A/250V AC, suitable for various control applications, including roller shutters and general impulse relay functions.





**Figure 1:** Eltako FUA12-230V Wireless Universal Actuator. The image displays the blue-colored actuator with its replaceable antenna connected via a coaxial cable. The front panel shows the Eltako brand logo, model number FUA12-230V, and CE marking. Below this are three rotary dials for settings: one for ESV t(min) and ER t(s) timing (0-120 seconds/minutes), one for AUTO, CLR, LRV, LRN functions, and a third for ESV/ER mode selection and output configuration (10A/250V~). The bottom section reveals screw terminals labeled N, L, 15(L), and 18 for electrical connections.

#### Key Features:

- Wireless universal actuator with replaceable antenna.
- Surge switch relay with 1 potential-free changer contact (10A/250V AC).
- Radio receiver functionality.
- Suitable for roller shutter switches.
- Push button operation.
- Wireless impulse relay.

## 4. SETUP AND INSTALLATION

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Before proceeding with installation, ensure the main power supply is disconnected.

### 4.1 Wiring Connections

Refer to the terminal markings on the device (N, L, 15(L), 18) for correct electrical connections. The device operates on 230V~.

- **N:** Neutral conductor.
- **L:** Live conductor (230V~).
- **15(L):** Common contact for the potential-free relay. Connect the load's live wire here.
- **18:** Normally Open (NO) contact of the potential-free relay. Connect the other side of the load here.
- Ensure secure connections for all wires.

### 4.2 Antenna Installation

The device comes with a replaceable antenna. Connect the antenna securely to the designated connector on the actuator. Position the antenna for optimal signal reception, avoiding metallic obstructions.

### 4.3 Learning-in Process (Pairing)

To pair the actuator with a wireless transmitter (e.g., a wireless push button), follow these steps:

1. Restore power to the actuator.
2. Set the middle rotary dial to the "LRN" position. The device will enter learning mode.
3. Activate the desired function on your wireless transmitter (e.g., press the push button).
4. The actuator will confirm successful pairing, typically by a relay click or LED indication (refer to specific transmitter manual for confirmation).
5. Return the middle rotary dial to "AUTO" or the desired operating mode.

To clear learned transmitters, set the middle rotary dial to "CLR" and follow the device-specific instructions for clearing memory.

## 5. OPERATING INSTRUCTIONS

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The Eltako FUA12-230V offers various operating modes and timing functions controlled by the front panel dials.

### 5.1 Mode Selection

- **AUTO:** Standard operating mode where the actuator responds to learned wireless commands.
- **LRV:** (Likely) Local Reset Value or similar function, consult full Eltako documentation for precise meaning.
- **LRN:** Learning mode for pairing transmitters (as described in Section 4.3).
- **CLR:** Clear mode for deleting learned transmitters.

## 5.2 Timing Functions (ESV t(min) / ER t(s))

The top dial controls timing parameters for ESV (Electronic Surge Switch) and ER (Electronic Relay) functions. The settings range from 0 to 120, representing either minutes (t(min)) or seconds (t(s)) depending on the selected mode.

- Adjust the dial to set the desired delay or pulse duration for the relay output.
- The specific behavior (e.g., on-delay, off-delay, pulse) depends on the ESV/ER mode selected via the bottom dial.

## 5.3 ESV / ER Mode Selection

The bottom dial allows selection between ESV and ER modes, and potentially other configurations related to the relay's behavior. The output contact rating is 10A/250V~.

- Consult the detailed Eltako product documentation for a complete explanation of each ESV and ER mode and their corresponding functionalities.

## 6. MAINTENANCE

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The Eltako FUA12-230V is designed for long-term, maintenance-free operation. However, periodic checks can ensure optimal performance.

- **Cleaning:** Gently wipe the exterior of the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Connections:** Periodically check electrical connections for tightness, especially after initial installation. Ensure no wires are loose.
- **Antenna:** Ensure the antenna is securely connected and undamaged.

No user-serviceable parts are inside the enclosure. Do not attempt to open or repair the device yourself.

## 7. TROUBLESHOOTING

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If the actuator is not functioning as expected, consider the following:

- **No Response:**
  - Check if the power supply to the actuator is active.
  - Verify that the wireless transmitter is functioning and has sufficient battery power (if applicable).
  - Ensure the actuator is correctly paired with the transmitter (refer to Section 4.3).
  - Check the antenna connection and position.
- **Incorrect Operation:**
  - Review the operating mode and timing settings on the front panel dials (Section 5).
  - Ensure the wiring connections are correct according to Section 4.1.
- **Intermittent Operation:**
  - Check for sources of radio interference near the actuator or transmitter.
  - Ensure the antenna is not obstructed by metallic objects.

If problems persist, contact Eltako customer support or a qualified electrician.

## 8. SPECIFICATIONS

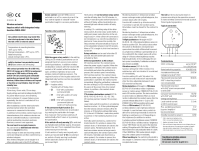

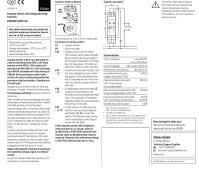
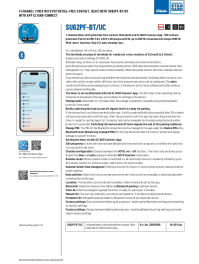
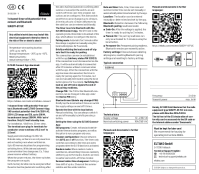
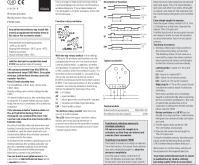
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Feature	Value
Model Number	FUA12-230V
Brand	Eltako
Operation Mode	Push button
Current Rating	10 Amps
Operating Voltage	250 Volts AC
Contact Type	Normally Open (Potential-Free Changer)
Connector Type	Wireless
Terminal Type	Screw Terminals (N, L, 15(L), 18)
Item Dimensions (L x W x H)	0.01 x 0.04 x 0.03 inches (approximate, likely packaging dimensions)
Circuit Type	1-way
Mounting Type	Surface Mount
Actuator Type	Push Button
Contact Material	Copper
International Protection Rating	IP20
Control Method	Touch (via wireless transmitter)
Connectivity Protocol	Wi-Fi (Wireless)
Color	Blue
Wattage	2500 Watts
Item Weight	2.15 ounces
Included Components	Wireless universal actuator with replaceable antenna, surge switch relay with 1 changer potential-free 10A/250V AC
Batteries Required	No

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Eltako website or contact your local Eltako distributor. Keep your purchase receipt as proof of purchase.  
**Eltako Official Website:** [www.eltako.com](http://www.eltako.com)

## Related Documents - FUA12-230V

	<p><a href="#">Eltako FSR61-230V Wireless Actuator: Impulse Switch &amp; Integrated Relay</a></p> <p>Discover the Eltako FSR61-230V wireless actuator, a smart home solution featuring an impulse switch and integrated relay. Learn about its installation, functions, and technical specifications for reliable automation.</p>
	<p><a href="#">Eltako FSR71NP-230V Funkaktor Stromstoß-Schaltrelais: Technische Daten und Konfiguration</a></p> <p>Detaillierte technische Spezifikationen, Installationsanleitung und Konfigurationsoptionen für das Eltako FSR71NP-230V Funkaktor Stromstoß-Schaltrelais, einschließlich Einrichtung von Sensoren, Szenen und Repeater-Funktionen.</p>
	<p><a href="#">Eltako ESR12NP-230V+UC Impulse Switch with Integrated Relay Function</a></p> <p>Technical specifications and operating instructions for the Eltako ESR12NP-230V+UC impulse switch with integrated relay function. Details on installation, functions, technical data, and wiring.</p>
	<p><a href="#">Eltako SU62PF-BT/UC 1-Channel Bluetooth Timer with ELTAKO Connect-App</a></p> <p>Discover the Eltako SU62PF-BT/UC, a versatile 1-channel timer with potential-free contact and Bluetooth. Control it easily via the ELTAKO Connect-App for advanced scheduling, astro functions, and more. Ideal for lighting and general switching applications.</p>
	<p><a href="#">Eltako SU62PF-BT/UC Bluetooth Timer: Features, Specifications, and Operation</a></p> <p>Detailed information on the Eltako SU62PF-BT/UC 1-channel timer with potential-free contact and Bluetooth connectivity. Learn about its features, technical specifications, installation, and operation via the ELTAKO Connect App.</p>
	<p><a href="#">Eltako FMZ61-230V Wireless Multifunction Time Relay - Technical Specifications and Operation</a></p> <p>Detailed technical specifications, installation guide, and operating instructions for the Eltako FMZ61-230V wireless multifunction time relay. Learn about its features, functions, and teach-in procedures.</p>