Eltako TLZ12-8

Eltako TLZ12-8-230V+UC Staircase Timer Instruction Manual

Model: TLZ12-8 | Brand: Eltako

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Eltako TLZ12-8-230V+UC Staircase Timer. Please read this manual carefully before installation and use to ensure safe and efficient operation of the device.

2. Safety Instructions

Always observe the following safety precautions:

- Installation and maintenance must only be performed by a qualified electrician.
- Disconnect the main power supply before performing any installation or maintenance work.
- Do not expose the device to moisture, direct water spray, or extreme temperatures.
- Ensure proper grounding according to local electrical codes and regulations.
- The device is designed for indoor use only within appropriate enclosures.

For detailed safety information, refer to relevant electrical standards and regulations in your region.

3. Product Overview

The Eltako TLZ12-8-230V+UC is a compact, modular staircase timer designed for mounting on a DIN rail. It features silent electronic operation, making it suitable for controlling lighting in stairwells and other common areas without mechanical noise.

Key Features:

- Modular device for DIN rail mounting (1 module width: 18mm, depth: 58mm).
- Equipped with 1 normally open contact, rated at 16 A / 250 V AC.
- Control, supply, and switching voltage: 230 V.

- Silent electronic operation, free from mechanical gear noise.
- Adjustable time delay: 0.2 minutes up to 12 minutes.
- Supports glow lamp current up to 50 mA.
- Automatic circuit type recognition for both 3-wire and 4-wire circuits.
- Features double terminals for pushbuttons with glow lamps, allowing flexible installation.
- Zero-crossing switching for gentle load handling and extended lamp life.
- Does not include a switch-off pre-warning function.

Product Components:

Refer to the images below for a visual representation of the timer and its key components and terminals.



Figure 3.1: Front view of the Eltako TLZ12-8-230V+UC Staircase Timer, showing the time adjustment dial, AUTO/manual switch, and terminal labels (L, N, 3, 4).

Figure 3.2: Side view of the Eltako TLZ12-8-230V+UC Staircase Timer, displaying a simplified wiring diagram and product specifications.

4. Setup and Installation

4.1 Mounting

The TLZ12-8-230V+UC is designed for quick and secure mounting on a DIN rail (EN 60715 TH35) within an electrical distribution board.

1. Ensure the main power supply to the distribution board is completely disconnected.
2. Snap the device onto the DIN rail until it clicks into place.
3. Verify that the device is securely fastened and cannot be easily dislodged.

4.2 Wiring Diagram

A detailed wiring diagram is typically printed on the side of the device itself. Below is a general guide for common connections. Always refer to the specific diagram on your device and adhere to all local electrical codes and standards.

Table 4.1: Terminal Connections

Terminal	Description
L	Phase (Live) input 230V~
N	Neutral input
3	Switched output to load (e.g., lighting circuit)
4	Pushbutton input (connects to phase via pushbutton)

Note: The device supports both 3-wire and 4-wire circuits and automatically recognizes the circuit type upon connection.

4.3 Initial Power-Up

After completing all wiring and ensuring connections are secure, restore power to the distribution board. The device should power on and be ready for operation.

5. Operating Instructions

5.1 Time Delay Adjustment

The duration for which the lighting remains active can be precisely adjusted using the large rotary switch located on the front panel of the device.

1. Locate the rotary dial marked with 't' and '12min'.
2. Rotate the dial clockwise or counter-clockwise to set the desired time delay. The range typically extends from 0.2 minutes up to 12 minutes.

5.2 Operating Modes

The device primarily operates in an automatic timing mode. A brief press of any connected pushbutton will activate the timer for the set duration.

Depending on the specific model variant, additional functions may be available:

- **Permanent Light Function:** On some models, pressing and holding the pushbutton for an extended period (e.g., longer than 2 seconds) may activate a continuous light mode for a predefined duration (e.g., 60 minutes).
- **Switch-off Pre-warning:** Please note that this specific model (TLZ12-8) does *not* feature a switch-off pre-warning (e.g., lights flickering before turning off).
- **Pumping Function:** Repeatedly pressing the pushbutton within the active timing period may extend the current light duration, effectively

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