

Product Guide

Programmable Extension Timer



today, tomorrow and in the future

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Product Overview

The E315 is a single-shot extension timer designed to control plant equipment such as heating, lighting or air-conditioning systems outside of normal occupancy hours. A voltage-free changeover relay output capable of switching loads of up to 16A, 250V AC is activated for a configurable Extension time period. This enables equipment to be immediately activated then automatically deactivated at the correct time in the future without the user being present, also bypassing difficult reprogramming procedures often encountered when used in conjunction with conventional control equipment. The E315 is an extremely user-friendly device with touch-sensitive pushbuttons, LED displays and fully adjustable timings, providing simple yet powerful control of devices outside of occupancy hours.

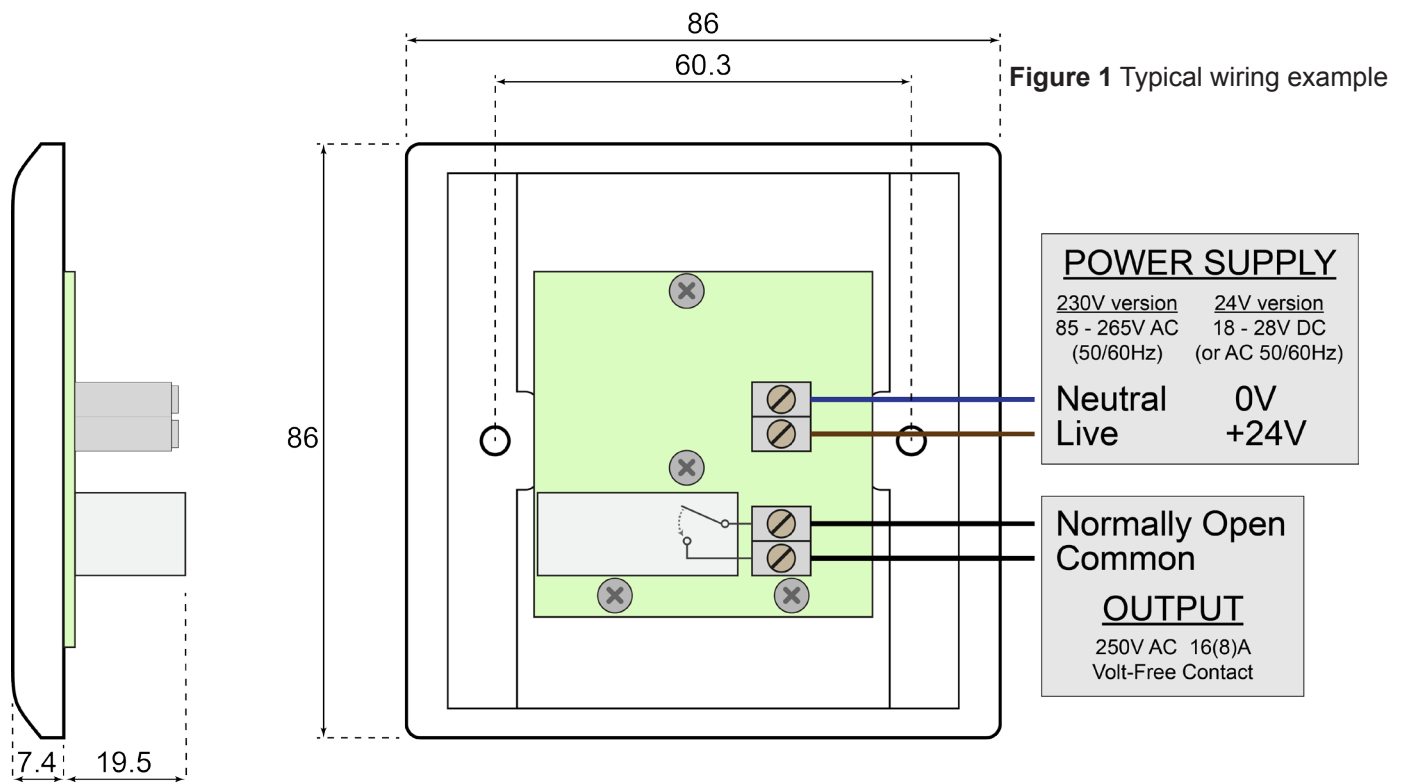
Effective energy control and beneficial time-management of personnel is obtained through the fully configurable "Extension" period which is adjustable from 0.5 hours to 99 hours (steps of 0.5 hours up to 9.5, then steps of 1 hour thereafter). A maximum limit for the Extension time can be programmed, ensuring the end-user cannot generate an extension longer than the authorised user allows.

When not in use, the extension timer enters a power-saving standby mode in an effort to reduce its energy usage.

Product Wiring

IMPORTANT: ensure all electrical connections are isolated before commencing any work on the unit.

- Power to the extension timer is provided via the power supply terminals (see Figure 1). The 230V version accepts a worldwide universal voltage of between 85V and 265V (50/60Hz). The 24V version accepts a wide input range of 18V to 28V DC or AC (50/60Hz).
- A voltage-free relay contact output capable of switching loads of up to 16(8)A 250V AC is provided by the extension timer.
 - The Common "COM" terminal is connected to the Normally Open "NO" terminal during the extension period and is disconnected at all other times.



Installation

- IMPORTANT:** ensure all electrical connections are isolated before commencing any work on the unit.
- The E315 is designed to be mounted into a 20mm (or deeper) single-gang UK pattress or back box.
- Connect the wiring to the terminal blocks on the extension timer as shown in Figure 1 (or any suitably appropriate form).
- Secure the E315 into the pattress box using the two supplied M3.5 screws.
- Fit the supplied screw covers to complete the installation.
 - To remove the screw covers without damage, use an adhesive putty such as blu-tack as an aid.

Operation

Operation Modes

The E315 has 3 operating modes:

- Standby: Power-saving mode where the dimmed LED displays show “0” on all digits.
- Setting Up: Bright LED displays with the currently selected display blinking. This mode is used to choose the desired Extension period.
- Running: Bright LED displays show the time remaining with the “Running” LED blinking. The “Output On” LED illuminates when the output is active. Once the extension is complete the unit will revert back to Standby mode.
- Configuration: The “Running” and “Output On” LEDs blink alternately. This mode is used to configure the maximum Extension period that the user will be allowed to select up to in the Setting Up mode.

Selecting and Running an Extension

1. Press the “Adjust” button to wake up the timer from Standby mode (enters Setting Up mode).
 - The “Extension” display will start blinking to show it is selected.
2. Repeatedly press or hold down the “Adjust” button to count up to the required Extension period.
3. Hold down the “Start” button to start the extension running (enters Running mode).
 - The “Running” LED will start blinking to show the extension is running and the “Output On” LED will illuminate to show the output is active.
4. To cancel an active extension at any time, hold down the “Start” button.
 - The unit will go back to the Setting Up mode.

Notes - Setting Up mode

1. If no button is pressed for 8 seconds, the unit will revert back to Standby mode.
2. If you accidentally go past the desired extension period, you must either:
 - Keep going until the period reaches the end and wraps back to the beginning.
 - Wait for the unit to automatically go back into Standby by not pressing any button for 8 seconds.

Configuring the Maximum Selectable Extension

1. NOTE: Configuration mode can only be entered once within the first 2 minutes of the extension timer powering up.
2. From the Standby mode, hold down the “Start” button.
 - The “Running” and “Output On” LEDs will start blinking alternately to show that Configuration mode has been entered. The display will also show the current maximum extension that was previously stored.
3. Select the desired maximum extension period by using the “Adjust” button, the same as described in step 2 of *Selecting and Running an Extension*.
4. Hold down the “Start” button to save the new maximum extension period.
 - The new value will be permanently stored and the unit will revert back to Standby mode. Configuration mode cannot be entered again unless the unit is power-cycled.

Notes - Configuration Mode

1. If you accidentally select the Configuration mode and do not want to save any changes, you must either:
 - Overwrite the maximum with the same original value.
 - Wait 2 minutes without pressing any buttons so the unit automatically reverts back to Standby mode. All changes will be lost.
 - Reset the extension timer by powering it off and on again. All changes will be lost.

| Technical Specification | |
|----------------------------|--|
| Power supply: | 230V version: 85 - 265V AC 50/60Hz (worldwide universal) 24V version: 18 - 28V DC or AC (50/60Hz) |
| Output switch rating: | 16(8)A, 250V AC |
| Output switch type: | SPNO relay (volt-free) |
| Output terminals: | 3.3mm ² solid/stranded wire, rising clamp |
| Operating temperature: | -10°C to +40°C |
| Suitable for: | 20mm (or deeper) single-gang UK pattress or back box |
| Ingress protection rating: | IP40 |
| Guarantee: | 5 Years |
| Weight: | 95g |
| Dimensions: | 86mm x 86mm x 26.9mm |

IMPORTANT INSTALLATION NOTICE

The installation of this product should be carried out in accordance with the latest IEE wiring regulations and all wiring completed by a qualified electrician.

Technical Support

For further help or information on this and the other products in the MS Electronics range visit www.mselectronics.co.uk or call 0333 666 1176.

Alternatively, email techsupport@mselectronics.co.uk
Additional copies of this product guide can be downloaded from our website.

Product Warranty

MS Electronics guarantees all their products against manufacturing defects for 5 years from the purchase date. If your product is found to be faulty, MS Electronics will, at their discretion, repair or replace the product free of charge.

Note

Any modification or damage to the outer casing of the product, as well as any damage to the product due to abuse or incorrect wiring may invalidate the guarantee.



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