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## Staircase time switch TLZ12G-230V+UC

**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

**Noiseless solid-state relay not potential-free 400 W, also energy saving lamps ESL and LED lamps. Switch-off early warning and pushbutton permanent light switchable. Standby loss 0.4 watt only. With ESL optimisation and multifunction.**

Modular device for DIN-EN 60715 TH35 rail mounting.

1 module = 18 mm wide, 58 mm deep.

**Zero passage switching** to protect lamps. This prolongs in particular the lifetime of energy saving lamps.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with a nearly wear-free switching solid-state relay.

230 V control voltage and additionally 8 to 230 V UC electrically isolated universal control voltage. 230V supply voltage and switching voltage.

**Glow lamp current up to 50 mA**, dependent on the ignition voltage of the glow lamps. Precise variable time range from 1 to 30 minutes, settable by minute scale.

**Permanent light switch** with the big rotary switch.

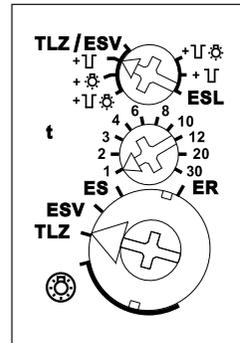
3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.

**Automatic detection of the method of connection.**

If the function TLZ is set, the lighting is switched on again after a power failure provided the set time has not yet elapsed.

**With double connections** for pushbutton and lamp in order to connect either above or below or only below.

### Function rotary switches



- ⏏ = switch-off early warning function
  - ⊙ = pushbutton permanent light
  - ⏏⊙ = switch-off early warning function and pushbutton permanent light
  - ⊙⊙ = permanent light switched on (all click-stop positions)
- TLZ/ESV/ES/ER = the set function is active

**If switch-off early warning function** ⏏ is switched on the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

**If push-button permanent light** ⊙ is switched on permanent light can be switched on by pressing pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing push-button longer than 2 seconds.

If both switch-off early warning function and permanent light pushbutton ⏏⊙ are switched on, the switch-off early warning function is activated before the permanent light switches off.

**When energy saving lamps ESL are completely or partially switched, then set the switch-off early warning and the pushbutton permanent light on the right hand side of the rotary switch.**

If the function TLZ is selected **the time can be extended** within the first second after switching on or resetting **by pressing the push-button repeatedly up to three times** (incrementing). Each momentary-contact control increments the set time once.

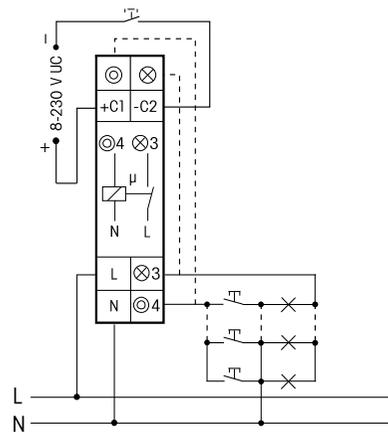
**With multifunction:** the following functions can be selected optionally: **ES** (impulse switch), **ER** (relay), **ESV** (impulse switch with release delay).

If the function ESV is set the time ranges (t) which can be set with the middle rotary switch are as follows:

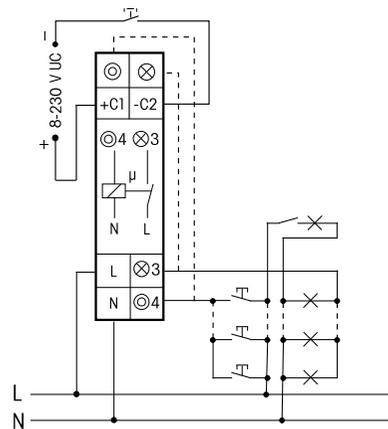
1 = 2min, 2 = 5min, 3 = 10min, 4 = 15min, 6 = 25min, 8 = 35min, 10 = 45min, 12 = 60min, 20 = 90min, 30 = 120min.

In this function the impulse switch automatically disconnects after the set delay is timed out, if a manual OFF command has not been given. Switch-off early warning and push-button permanent light can be switched on additionally in this position as well. Forgotten permanent light is switched off after 2 hours.

### Typical connections



3-wire circuit, resettable.



4-wire circuit with attic lighting, resettable.

### Technical data

⊙	Control pushbutton 230 V with glow lamp current up to 50 mA
	Control voltage C1/C2 8..230 V UC
	Rated switching capacity up to 400 W
	Incandescent lamp and halogen lamp load <sup>1)</sup> 230 V, I on ≤ 70A/10ms up to 400 W
	Fluorescent lamp load with KVG shunt compensated or with EVG up to 400 VA
	Compact fluorescent lamps with EVG and energy saving lamps ESL up to 400 W <sup>2)</sup>
	230 V LED lamps up to 400 W <sup>2)</sup>
	Standby loss (activ power) 0.4 W

<sup>1)</sup> Applies for lamps with max. 150 W.

<sup>2)</sup> Usually applies for energy saving lamps and 230 V LED lamps. Due to different lamp electronics it may come to a restriction on the maximum number of lamps, dependent on the manufacturer, especially if the connected load is very low (eg 5 W LEDs).

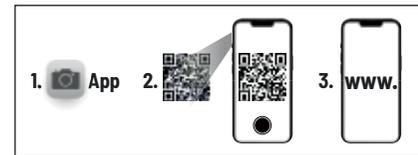


The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

### Manuals and documents in further languages:



[https://eltako.com/redirect/TLZ12G-230V\\*UC](https://eltako.com/redirect/TLZ12G-230V*UC)



### Must be kept for later use!

We recommend the housing for operating instructions GBA14.

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