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*Eltako*

## Staircase time switch

### TLZ12-8plus

**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%.

**1 NO contact not potential free 16 A/250 V AC. Incandescent lamps up to 2300 W, energy saving lamps ESL and LED up to 600 W. Control voltage 230 V and / or 8..230 V UC. Switch-off early warning and pushbutton permanent light switchable. Standby loss 0.7 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 contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.

**The noiseless electronics** do not even bother the sensitive ear – unlike many synchronous motors with mechanical gears.

**By using a bistable relay coil power loss and heating is avoided even in the on mode.**

The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.

Control voltage, supply voltage and switching voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC. 3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit. **Automatic detection of the method of connection.**

**Glow lamp current up to 50 mA**, dependent on the ignition voltage of the glow lamps.

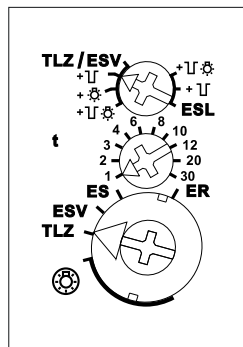
Precise variable time range from 1 to 30 minutes, settable by minute scale.

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

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



TLZ = Switch-off early warning function

ESV = Pushbutton permanent light

TLZ/ESV = Switch-off early warning function and pushbutton permanent light

ES = Permanent light switched on (all click-stop positions)

TLZ/ESV/ES/ER = The set function is active

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

**If pushbutton permanent light** ESV 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 TLZ/ESV 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.**

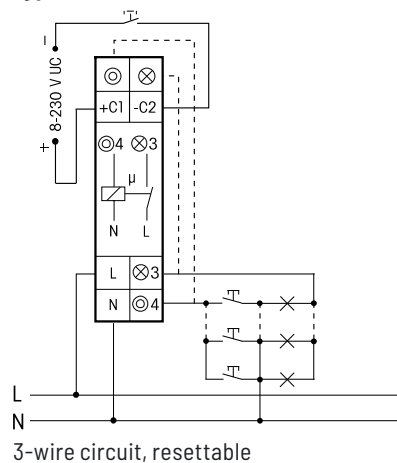
If the function TLZ is selected the **time can be extended** within the first second after

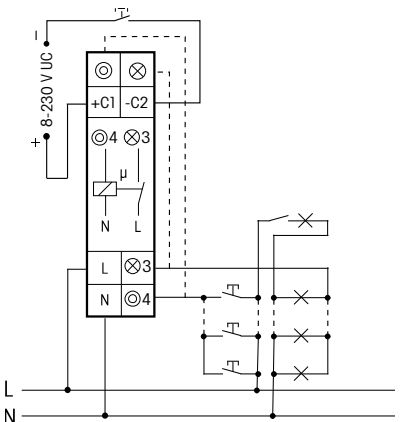
switching on or resetting **by pressing the pushbutton repeatedly up to three times** (incrementing). Each momentary-contact control increments the set time once.

**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 = 2 min, 2 = 5 min, 3 = 10 min, 4 = 15 min, 6 = 25 min, 8 = 35 min, 10 = 45 min, 12 = 60 min, 20 = 90 min, 30 = 120 min. 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 pushbutton permanent light can be switched on additionally in this position as well. Forgotten permanent light is switched off after 2 hours.

### Typical connections





4-wire circuit with attic lighting, resettable



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



<http://eltako.com/redirect/TLZ12-8plus>

### Technical data

Rated switching capacity	16 A/250 V AC
230 V LED lamps	up to 600 W <sup>2)</sup> I on ≤ 120 A/5 ms
Incandescent lamp load and halogen lamp load <sup>1)</sup>	2300 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA
Fluorescent lamps with KVG* shunt-compensated or with EVG*	500 VA
Compact fluorescent lamp with EVG* and energy saving lamps	200 W <sup>2)</sup>
Control voltage C1/C2	8..230 V UC
⊙	Control pushbutton 230 V with glow lamp current up to 50 mA
⊗	Lamp connection
Standby loss (activ power)	0,7 W

\* EVG = electronic ballast units;  
KVG = conventional ballast units

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

<sup>2)</sup> Usually applies for dimmable 230 V LED lamps and dimmable energy saving lamps. Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 W LEDs).



### Must be kept for later use!

We recommend the housing for operating instructions GBA14.

### Eltako GmbH

D-70736 Fellbach

### Technical Support English:

+49 711 94350025

technical-support@eltako.de

eltako.com