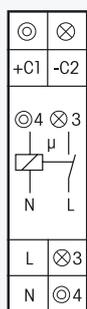
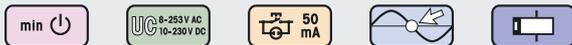


### TLZ12-8plus



**1 NO contact not potential free 16A/250V AC. Incandescent lamps up to 2300W, energy saving lamps ESL and LED lamps up to 200W. Control voltage 230V and/or 8..230V UC. Switch-off early warning and permanent light by pushbutton 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 230V. In addition electrically isolated universal voltage from 8 to 230V 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.

**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 permanent light by pushbutton is switched on**, permanent light can be switched on by pressing the pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing the pushbutton longer than 2 seconds.

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

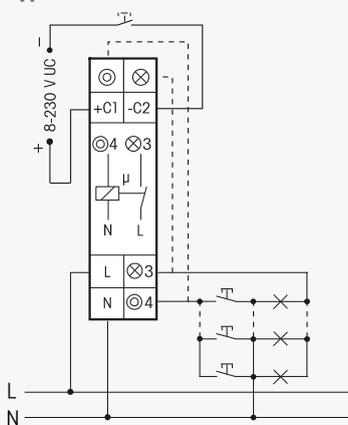
**When energy saving lamps ESL are completely or partially switched, then set the switch-off early warning and the permanent light by pushbutton on the right hand side of the rotary switch.**

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.

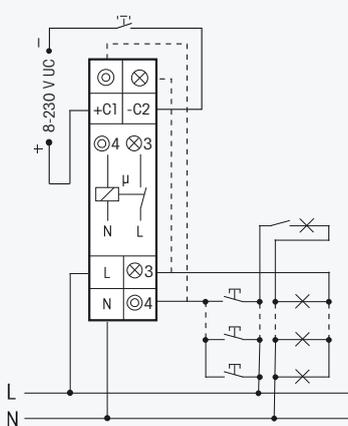
**With multifunction:** The following functions can be selected optionally: **ES** (impulse switch), **ER** (relay), **ESV** (impulse switch with release delay).

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 permanent light by pushbutton can also be switched on in this position. Forgotten permanent light is switched off after 2 hours.

#### Typical connections

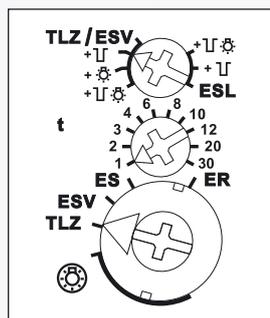


3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

#### Function rotary switches



TLZ/ESV = Switch-off early warning function

ESL = Permanent light by pushbutton

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

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

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

Technical data page 15-10.

Housing for operating instructions GBA12, see accessoires, chapter Z.