



Digital settable staircase  
time switch  
TLZ12D-plus

**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  
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 0.5 watt only. With ESL optimisation  
and multifunction.

Modular device for DIN EN 60715 TH35  
rail mounting. 1 module = 18mm wide,  
58mm deep.

The functions and times are entered using  
the MODE and SET keys as described in  
the operating manual and indicated on  
the LC display. A keylock function is  
provided.

**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**, depen-  
dent on the ignition voltage of the glow  
lamps.

Precise variable time range from 1 to  
99 minutes.

Separate continuous light pushbutton  
with projecting SET button in the func-  
tions STS, ISO, IS and R.

**With motion detector control input BM**,  
which converts the input signal into a  
control impulse if the function STS is set.  
In this case the permanent light by push-  
button function is not active.

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

The elapsed period is shown in the middle  
of the display. The set time flashes at the  
bottom edge of the display until the set  
period elapses. **The accrued switch-on  
time** is displayed there outside the  
elapsed time, first in hours (h), then in  
months (m) with 1 digit after the decimal  
point. When the set time flashes but the  
elapsed time does not change, a control  
pushbutton is inhibited.

**If switch-off early warning function is  
switched on**, the light starts flickering in  
time variable from 10 to 50 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 time variable from  
0.5 to 10 hours or by pressing the push-  
button longer than 2 seconds. This func-  
tion is not active at the BM input.

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.

**If energy saving lamps are switched  
completely or partially, activate position  
'ESL' in the menu guidance.** This is

indicated by a + sign next to the abbre-  
viation for the function at the top of the  
display.

If the function STS is selected **the time  
can be extended** within the first second  
after switching on or resetting **by pres-  
sing the pushbutton repeatedly up to  
three times** (incrementing). Each  
momentary-contact control increments  
the set time once. This function is not  
active at the BM input.

**With multifunction:** Switchable to the  
functions **IS** (impulse switch), **R** (relay),  
**ISO** (impulse switch with off-delay) and  
**HC** (hour counter). After setting the  
required function, the function can be  
blocked. An arrow on the right of the  
abbreviation indicates the blocking status.

**ISO:** The impulse switch automatically  
disconnects after the set delay from 0.1  
to 9.9 hours is timed out, provided there  
is no manual OFF command.

Switch-off early warning, permanent light  
by pushbutton and ESL are also swit-  
chable if the function ISO is set.

**HC:** As long as the pushbutton input is  
excited, the + sign is indicated next to  
the abbreviation for the function HC at  
the top of the display. The time is added  
and indicated at the bottom of the dis-  
play. Initially up to 9999 hours (h), then  
automatic change-over to months (m)  
each with 730 hours and display with  
1 digit after the decimal point. The relay  
is not switched on if the function HC is set.

Menu guidance with selectable languages  
German, English or French as described  
in the attached operating instructions.

### Typical connections



