

Instructions for Twilight switch DASY 10 / DASY 16

Operating principle

The twilight switch compares the real lighting level to the set switching threshold. When the luminosity reduces below ON threshold, the light will be switched ON with a time delay of 10 s. When the luminosity rises above the OFF threshold, the light will be switched OFF with a time delay of 40 s. The time delays will avoid reaction to temporary light changes (lightning, car lights, etc.).

Mounting

To be done only by a qualified electrician. Mount the twilight switch on an outside wall protected from direct sunlight, for example facing East or North in northern hemisphere (South in southern hemisphere). To ensure proper water projection, position the LED-indicator and the potentiometer facing downwards. Make the connections by using preferably cable entry located on the bottom of the device. The entry on the top is to be used only in dry conditions. When using the entry located on the back of the device, it is advisable to perforate the casing as shown in fig. 1. If switching is required under low luminosity conditions, make sure the light measuring cell is not darkened by eaves or similar objects. Make sure the cell is not influenced by the lights it is controlling; otherwise the intensity of the lights will cause the unit to switch them OFF as soon as they are switched ON.

Switch On threshold setting

After installation turn the potentiometer fully to the left. When the desired light level has been reached, turn the potentiometer slowly until the LED Indicator lights up. The lights will be switched ON after the time delay has elapsed (10 s).

Switch OFF threshold

The twilight switch is fitted with an hysteresis, which calculates the switch OFF threshold by multiplying the switch ON threshold by 1,5. This factor is constant and defined by construction. When the switch-OFF threshold is reached, the lights will be switched OFF after the time delay has elapsed (40 s).

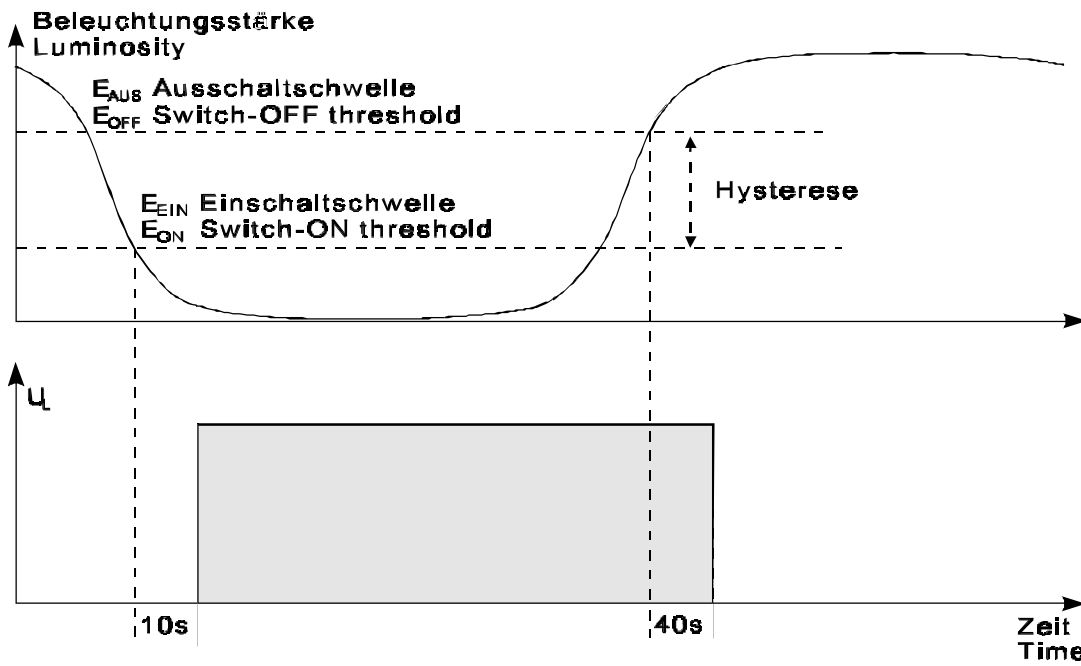
Warranty

We give a 12 month warranty from the date of purchase by the end user for equipment which has been expertly installed and not been modified in any way. This warranty does not apply to any damage which has been incurred during transit or which has been caused by a short circuit or overload. Our factory will rectify free of charge any manufacturing and material defects discovered within the warranty period.

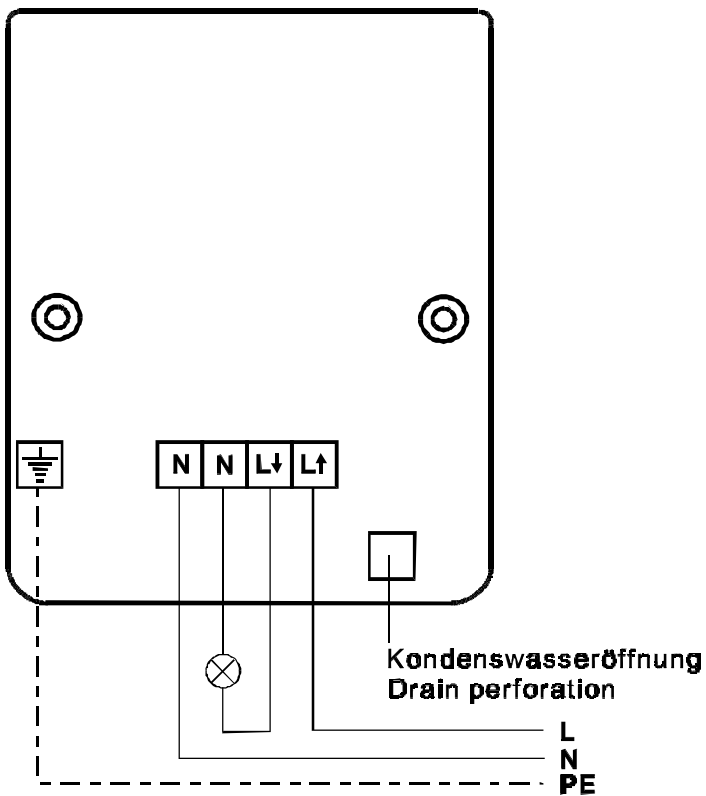
Technical data

| | DASY 10 | DASY 16 |
|--|--------------------------------|---------|
| Supply voltage (+/- 10 %) | 230 V AC \pm 10% 50-60 Hz | |
| Setting range | 5 - 1000 lux logarithmic scala | |
| Switch-off threshold | 1,5 x ON threshold | |
| Output | 1 relay contact NO (SPST) | |
| Current rating | 10 A | 16 A |
| Power rating resistive load and incandescent lamps | 2300 VA | 3680 W |
| Power rating resistive and inductive loads | 2300 VA | 3680 VA |
| Time delays: ON delay | 10 s | |
| OFF delay | 40 s | |
| Switching threshold indicator (instantaneous) | red LED | |
| Protection class | IP 54 | |
| Casing | Blend (ABS/PC) | |
| Wiring terminals | 2,5 mm ² | |
| Operating temperature | - 25°C to + 45°C | |
| Standards | DIN VDE 0632; IEC 669 | |

Funktionsdiagramm Switching Diagram



Anschlußbild Wiring diagram



Empfohlene Abisolierung Cable stripping diagram

