



symbolic image

DATA SHEET

twilight switches

Dasy 016-230 V TC - an

for time and illumination dependant lighting control (outdoor mounting)

Article number 09500048



Function

Twilight switches switch on electrical consumers when the daylight level drops below a lower light value and switches off the electrical consumers again when an upper light value is exceeded. Doepke twilight switches are available in designs for outdoor mounting and also for distribution board installation with light sensors mounted outdoors. The Dasy series devices are twilight switches with a fixed hysteresis. A rotary potentiometer allows the twilight value, at which the lighting is switched on, to be reset. The lighting is switched off when the brightness level reaches 1.5 times the set value. Twilight switches of variant TC provide an integrated time switch for energy-saving lighting control (night-time switch-off). It allows for switching the lighting off or on in an adjustable time interval.

Features

wide adjustment range of 1 lux ... 200 lux and high switching stability, quick and precise adjustment of switching values thanks to logarithmic characteristics and instant LED, significantly reduced sensitivity to visual feedback through fixed hysteresis, no undesired switching when there are short-term changes to the ambient brightness, temporary suppression of switching delay after adjustment for immediate load test, robust switching contact allows switching of lamps offset in parallel, large connection space and cable glands for easy wiring

Mounting

On-wall housing for wall mounting indoors and outdoors. Mast or pipe mounting is also possible if the optional mounting kit is used.

Applications

Control of lighting for streets, buildings and industrial premises.

Notes

Product name #91we#92 for white housing, #91an#92 for anthracite-coloured housing.

Accessories

mast brackets

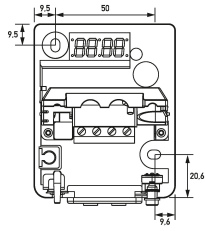
Technical Data

| Technical Data | Dasy 016-230 V TC - an |
|---|------------------------|
| Series | Dasy TC |
| Number of (n.o, n.c.,change-over) | 1 0 0 |
| Manual operating mode possible | false |
| Adjustability, delay | fixed |
| Switch-on delay range | max. 10 s |
| Switch-off delay range | max. 40 s |
| Adjustability, switch-on threshold twilight | Smooth, logarithmic |
| Switch-on threshold range shading twilight | 1 lux ... 200 lux |
| Adjustability of twilight hysteresis | fixed |
| Adjustability of the switch-off threshold hysteresis factor | 1.5 |

Subject to technical changes

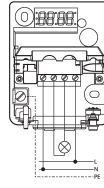
| Technical Data | | Dasy 016-230 V TC - an |
|---|--|---|
| Twilight switch-off threshold range shading | | 1 lux ... 200 lux |
| Operating voltage (AC) | | 115 V, 230 V (207 V ... 253 V) |
| Operating frequency | | 50 Hz, 60 Hz |
| Internal consumption | | max. 2.5 W |
| | | Display switch-on threshold |
| Number | | 1 |
| Type | | LED |
| | | load circuit |
| Specification | | relays |
| Rated voltage (AC) | | 230 V |
| Rated current (AC) | | 16 A |
| Rated power | | max. 4000 VA |
| Rated frequency | | 50 Hz |
| max. Rated power LED | | 400 VA |
| | | screw-type terminal (load circuit) |
| Clamping area | | 0.4 mm ² ... 4 mm ² |
| Tightening torque | | max. 0.5 Nm |
| Connection C2 Maximum number of conductors per terminal | | 2 |
| | | General data |
| Operating position | | 90° tilted |
| Mechanical endurance | | min. 100 · 10 ⁶ cycles |
| Electrical endurance | | min. 1 · 10 ⁶ cycles |
| Ambient temperature | | -40 °C ... 45 °C |
| Housing type | | wall-mounted housing |
| Installation type | | Mast assembly |
| Housing material | | polycarbonate (PC) |
| Housing colour | | anthracite (similar to RAL 7016) |
| Protection class | | IP54 |
| Width | | 70 mm |
| Height | | 90 mm |
| Depth | | 53 mm |
| Design requirements/Standards | | EN 60669-1 |

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams

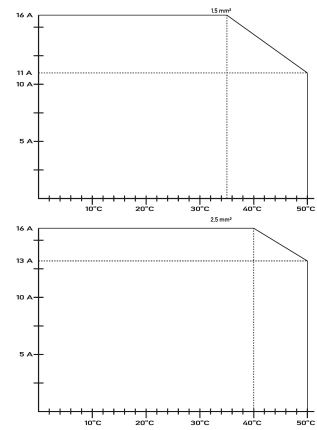
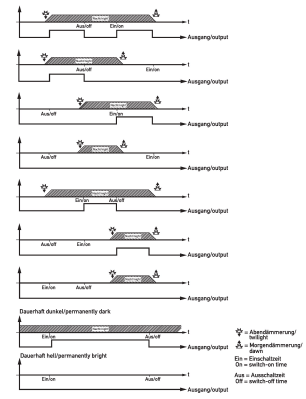


Diagram Derating curve DASY TC

Diagram Assemblies DASY TC