DATA SHEET
twilight switches
Dasy 016-230 V TC - we
for time and illumination dependant lighting control (outdoor mounting)
Article number 09500044

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

integrated time switch for energy-saving and comfortable switching of lighting, Easy-to-read, stable-temperature LED display with intuitive menu guidance and rotary/push-switch, simple, intuitive adjustment of times and options, big storage capacitor for buffering the time for several days, No time transmission device necessary thanks to quartz-stable circuit, Configurable, automatic daylight saving time adjustment, 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.

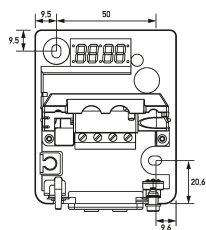### Accessories

mast brackets

Technical Data

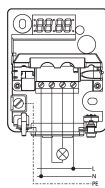| Technical Data	Dasy 016-230 V TC - we
Series	Dasy TC
Number of (n.o, n.c.,change-over)	1|0|0
Manual operating mode possible	false
Adjustability, delay	fixed
Switch-on delay range	max. 10 s
Switch-off delay range	max. 40 s
Adjustability, switch-on threshold twilight	Smooth, logarithmic
Switch-on threshold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

Subject to technical changes

Technical Data	Dasy 016-230 V TC - we
Adjustability of the switch-off threshold hysteresis factor	1.5
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 mm² ... 4 mm²
Tightening torque	max. 0.5 Nm
Connection C2 Maximum number of conductors per terminal	2
General data	
Operating position	90° tilted
Mechanical endurance	min. $100 \cdot 10^6$ cycles
Electrical endurance	min. $1 \cdot 10^6$ cycles
Ambient temperature	-40 °C ... 45 °C
Housing type	wall-mounted housing
Installation type	Mast assembly
Housing material	polycarbonate (PC)
Housing colour	signal white (similar to RAL 9003)
Protection class	IP54
Width	70 mm
Height	90 mm
Depth	53 mm
Weight	0.168 kg
Design requirements/Standards	EN 60669-1

Doepke

Dimensions

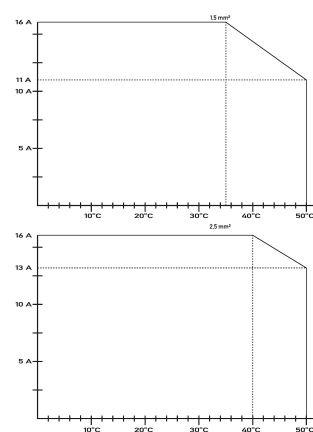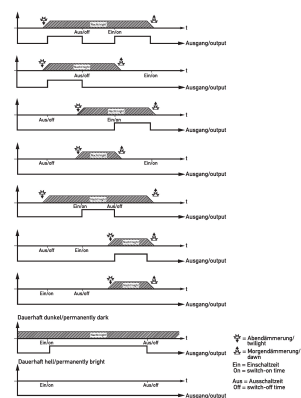*Dimensional drawing Group view*

Wiring example

Wiring diagram

Diagrams

Diagram Derating curve DASY TC

Diagram Assemblies DASY TC