



symbolic image

# DATA SHEET

## SIROLUX ohne LF 1

for daylight-linked control of drives

Article number 09500169



[Internetlink](#)

### Function

Twilight switches are switches that 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 twilight switches of this series are devices for distribution board installation with an external light sensor. It is possible to install the switch and external light sensor anywhere, regardless of the lighting to be switched; the distribution board easily handles the settings for the switch-on/switch-off thresholds. The SIROLUX compares the current illuminance with the set switch-on threshold. If the illuminance falls below the desired switch-on threshold, the twilight switch output switches to 24 V after a switch-on delay time has expired. If the switch-off threshold is reached due to increasing illuminance, the output switches off again after the delay time has expired. The delay ensures that the outputs of the twilight switch do not respond to brief lighting fluctuations (lightning, car headlights, etc.)

### Features

separate adjustment options for the switch-on/switch-off threshold, wide adjustment range for the thresholds, front LED display of the switching status, static and dynamic outputs for extended automation functions, outputs in semiconductor design, LF 1 light sensors for outdoor mounting (IP44), cable length to LF 1 up to 100 m, more than one twilight switch can use one LF 1.

### Mounting

Twilight switch: quick fastening to mounting rail, any installation position  
 Light sensor LF 1: Wall mounting, preferably facing north or east

### Applications

The twilight switch is suitable for use in private, commercial and industrial systems and building for switching electrical consumers at twilight, e.g. for lighting systems (advertising lights, display windows, car parks) or for motors (roller shutters, blinds, awnings).

### Notes

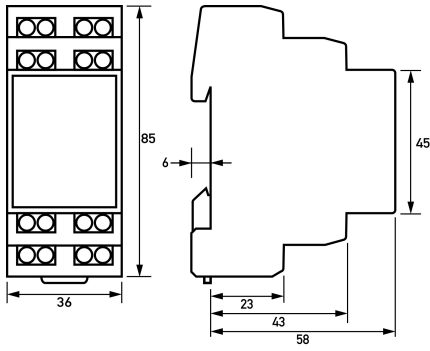
Up to 10 twilight switches (SIROLUX/SIDS, in any combination) can be operated in parallel on one light sensor LF 1. Depending on the order number, the twilight switch is supplied with or without a light sensor.

### Technical Data

Technical Data	SIROLUX ohne LF 1
Series	SIROLUX
Number of (n.o, n.c., change-over)	1
Manual operating mode possible	false
Adjustability, delay	Smooth
Switch-on delay range	60 s ... 180 s
Switch-off delay range	6 s ... 600 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

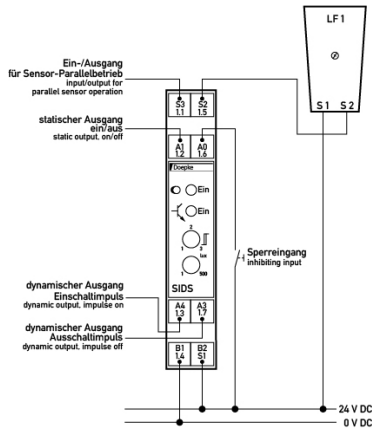
Technical Data	SIROLUX ohne LF 1
Adjustability, switch-on threshold shading	Smooth, logarithmic
Switch-on threshold range shading	2000 lux ... 200000 lux
Adjustability of hysteresis shading	Smooth
Switch-off threshold range shading	400 lux ... 160000 lux
min. Sensor, measuring range, brightness	2000 lux
max. Sensor, measuring range, brightness	200000 lux
Operating voltage source	external power supply
Operating voltage (DC)	24 V (21.6 V ... 26.4 V)
Internal consumption	max. 0.3 W
	Display Power-on threshold, Output state
Type	LED
	Sensor input
Load factor	1 ELF
	Control output
Specification	Semiconductor
Rated voltage (DC)	24 V
Load factor	20 ALF
	Screw-type terminal (Sensor input)
Connection cable	100 m
Clamping area	0.4 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Tightening torque	max. 0.6 Nm
	Screw-type terminal (SteuerAusgang)
Clamping area	0.4 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Tightening torque	max. 0.6 Nm
General data description	General data
Duty cycle	continuous operation (Duty cycle ≤ 100 %, at U <sub>e</sub> )
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	35 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	2
Design requirements/Standards	EN 60669-1

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams

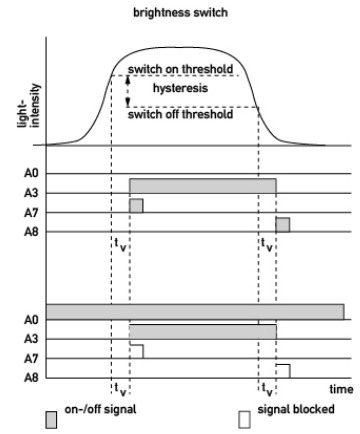


Diagram Brightness