



**DATA SHEET**  
**SIDS mit LF 1**  
*for daylight-linked lighting control*  
 Article number 09500156



[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 SIDS twilight switch is an SI impulse system component connected in series and facilitates the daylight linking of electrical consumers. The LF 1 light value sensor connected to the SIDS detects the current brightness. If the brightness falls below the value set on the potentiometer at the front, the device activates the static output or sends an impulse to the dynamic output after a delay time has expired. If the light value exceeds the set value, the SIDS resets the static output or sends an impulse to another output. The hysteresis (to prevent excessive switching) can be adjusted via the second potentiometer.

**Features**

wide adjustment range for switch-on threshold of 2 to 500 lux, smoothly adjustable hysteresis from one to three times the switch-on threshold, status display using front green and red LEDs, which also simplify adjustment, fixed switch-on/switch-off delay of 60 s, lock input, outputs: semiconductor, static and dynamic, 24 V DC, 50 mA load capacity, operating voltage: 24 V DC, installation width: 17.5 mm (1 unit), integrated protection class: IP40

**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.

**Accessories**

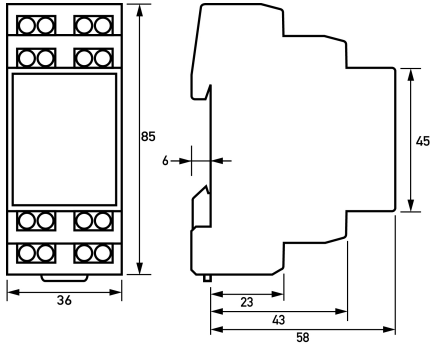
Sensors LF

**Technical Data**

Technical Data	SIDS mit LF 1
Series	SIDS
Number of (n.o, n.c.,change-over)	1
Manual operating mode possible	true
Adjustability, delay	fixed
Switch-on delay range	max. 30 s
Switch-off delay range	max. 40 s
Adjustability, switch-on threshold twilight	Smooth, logarithmic
Switch-on threshold range shading twilight	1 lux ... 500 lux
Adjustability of twilight hysteresis	Smooth

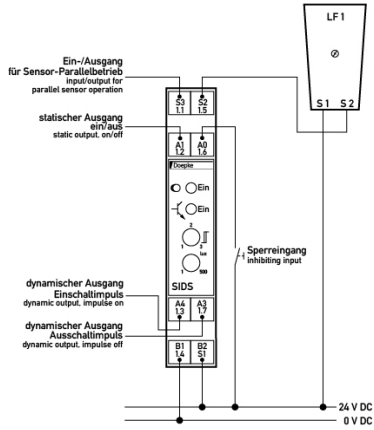
Technical Data	SIDS mit LF 1
Twilight switch-off threshold range shading	1 lux ... 1500 lux
Operating voltage source	external power supply
Operating voltage (DC)	24 V (21.6 V ... 26.4 V)
Internal consumption	max. 0.3 W
	Display Power-on threshold, Output state
Type	LED
	Sensor input
Load factor	1 ELF
	Control output
Specification	Semiconductor
Rated voltage (DC)	24 V
Rated current (AC)	0.05 A
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	17.5 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	1
Design requirements/Standards	EN 60669-1

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram