

DATA SHEET

Article number: 09500121

twilight switches EDS 16 ohne LF 1

for daylight-linked lighting control (mounting rail installation)



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 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 operating and control voltage of the devices is 230 V AC. The EDS 16 compares the current illuminance with the set switch-on threshold. If the illuminance reaches the desired switch-on threshold, a delay time starts. Once the delay time has expired the load relay of the twilight switch is switched on. If the switch-off threshold is reached due to increasing illuminance, the relay switches off again after the delay time has expired. The slow switching responses prevent unnecessary switch-on or dangerous switch-off when the brightness changes briefly (e.g. due to lightning and car headlights).

Features

energy saving thanks to automatic lighting control, switch-on/switch-off delay mutes brief fluctuations in brightness, low internal consumption, easy mounting and adjustment, adjustable switch-on threshold of 2 to 1000 lux, switch-off threshold prescribed by internal factor 1.5, potential-free NO contact (16 A), switch-on/relay status indicated by LED, LF1 light sensors for outdoor mounting (IP44), cable length to LF1 up to 100 m, more than one twilight switch can use one LF1.

Mounting

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

Applications

Control of lighting for streets, buildings and industrial premises.

Notes

Depending on the order number, the twilight switch is supplied with or without a light sensor.

Accessories

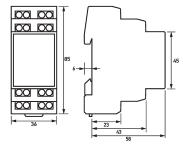
sensors LF

Technical data

	load circuit
Туре	LED
Number	2
	Display (switch-on threshold, status output)
Internal consumption	max. 1.6 W
Operating frequency	50 Hz
Operating voltage (AC)	230 V (207 V 253 V)
hysteresis factor	
Adjustability of the switch-off threshold	1.5
Adjustability of twilight hysteresis	fixed
Switch-on threshold range shading twilight	2 lux 1000 lux
Adjustability, switch-on threshold twilight	Smooth, logarithmic
Switch-off delay range	max. 40 s
Switch-on delay range	max. 6o s
Adjustability, delay	fixed
Manual operating mode possible	false
Number of (n.o, n.c.,change-over)	1
Series	EDS 16

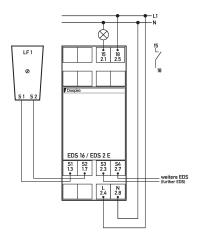
Specification	relays
Rated voltage (AC)	230 V
Rated current (AC)	16 A
Rated power	max. 3680 VA
Rated frequency	50 Hz
max. Rated power glow lamps	3000 VA
max. Rated power fluorescent lamp	200 VA
compensated	
max. Rated power fluorescent lamp not	1000 VA
compensated	
max. Rated power fluorescent lamps duo-	1000 VA
switching	
	screw-type terminal (sensor input)
max. Connection C1 cable length	100 M
Clamping area	0.4 mm ² 2.5 mm ²
Tightening torque	max. o.6 Nm
	screw-type terminal (load output)
Clamping area	o.4 mm ² 2.5 mm ²
Tightening torque	max. o.6 Nm
	General data
Duty cycle	continuous operation (Duty cycle ≤ 100 %, at Ue)
Operating position	optional
Storage temperature	-40 °C 70 °C
Ambient temperature	-10 °C 45 °C
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	polycarbonate (PC)
Protection class	IP20
sealable	false
Width	35 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Module widths	2
Weight	0.131 kg
Design requirements/Standards	EN 60669-1

Dimensions



Dimensioned drawing twilight switches EDS 16 ohne LF 1 $\,$

Wiring example



Technical changes reserved 2025_10_14 doepke_09500121_dbl_en.pdf 2/3

