

Twilight switch SOU-1

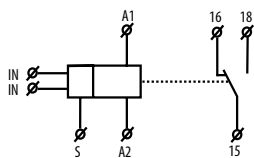
1M



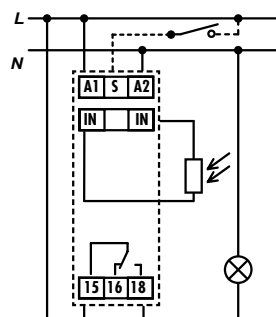
- serves to control lights on the basis of ambient light intensity
- used for switching street illumination and garden lights, illumination of advertisements, shop windows, etc.
- level of ambient intensity is monitored by an external sensor and output is switched according to set level on the device
- control input for additional control, e.g. time switch, pre-switch etc.
- level of illumination adjustable in two ranges: 1 - 100 Lx and 100 - 50000 Lx
- adjustable time delay to eliminate short term fluctuation in illumination
- external sensor IP56 suitable for mounting on the wall (cover and holder of a sensor are a part of the package)
- supply voltage AC 230 V or AC/DC 12 - 240 V
- output contact: 1x changeover 16 A
- red LED output indication
- 1-MODULE, DIN rail mounting

Technical parameters	SOU-1
Supply terminals:	A1 - A2
Supply voltage:	AC/DC 12 - 240 V (AC 50 - 60 Hz)
Consumption:	AC 0.7 - 3 VA / DC 0.5 - 1.7 W
Supply voltage:	AC 230 V / 50 - 60 Hz
Power input (apparent/loss):	AC max. 12 VA / 1.8 W
Supply voltage tolerance:	-15 %; +10 %
Supply indication:	green LED
Time delay:	0 - 2 min
Time delay setting:	potentiometer
Illumination rang 1):	1 - 100 Lx
Illumination rang 2):	100 - 50000 Lx
Output	
Number of contacts:	1x changeover (AgSnO ₂)
Rated current:	16 A / AC1
Breaking capacity:	4000 VA / AC1, 384 W / DC
Inrush current:	30 A / <3 s
Switching voltage:	250 V AC1 / 24 V DC
Min. breaking capacity DC:	500 mW
Output indication:	red LED
Mechanical life:	3x10 ⁷
Electrical life (AC1):	0.7x10 ⁵
Control	
Power the control input:	0.8 - 530 mVA (UNI), 0.8 - 530 mVA (AC 230 V)
Load between S-A2:	Yes(UNI, AC 230 V)
Glow-lamps:	No (UNI), Yes - max. 4 pcs at 1mA (AC 230 V)
Control. terminals:	A1-S
Impulse length:	min. 25 ms / max. unlimited
Reset time:	150 ms
Other information	
Operating temperature:	-20 .. +55 °C
Storage temperature:	-30 .. +70 °C
Electrical strength:	4 kV (supply - output)
Operating position:	any
Mounting/DIN rail:	DIN rail EN 60715
Protection degree:	IP 40 from front panel
Sensor cable length:	max. 50 m (standard wire)
Oversvoltage category:	III.
Pollution degree:	2
Max. cable size (mm ²):	solid wire max. 1x 2.5 or 2x1.5/ with sleeve max. 1x2.5
Dimensions of the sensor:	see page 91
Weight of sensor:	20 g
Dimensions:	90x17.6x64 mm, see page 90-92
Weight:	(UNI) - 75 g, (230) - 65 g
Standards:	EN 60255-6, EN 61010-1

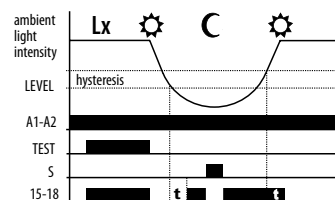
Symbol



Connection



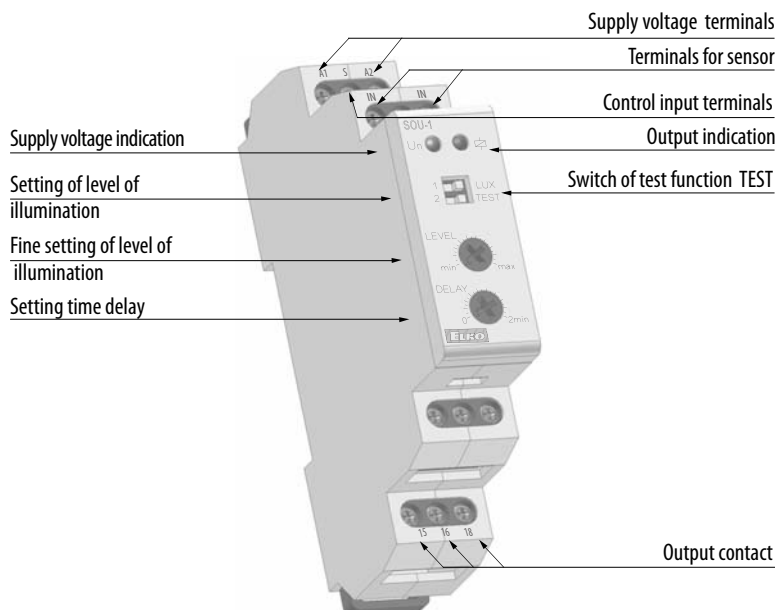
Function



Description of DIP switch

- DIP 1
- ON: 100 - 50000 Lx
 - OFF: 1 - 100 Lx
- DIP 2
- ON: TEST ON
 - OFF: NORMAL

Description



Accessories:

External sensors, see page 49

Twilight switch SOU-2 with digital time switch clock

2M



- serves for control of lights on the basis of ambient light intensity and real time (combination of SOU-1 and time switch clock SHT-1 in one device)
- advantage of real time is in blocking function of a twilight switch in case lights are not economical to be on (night hours, weekends, etc.)
- adjustable light intensity 1-50000 lx
- function of random switching enables simulation of people in a building switching: according to a program (AUTO) / permanently manual / random (CUBE)
- external sensor IP56 issuitable for mounting on the wall/ in panel (cover and sensors are part of delivery)
- 2-MODULE, DIN rail mounting

Technical parameters	SOU-2
Supply terminals:	A1 - A2
Supply voltage:	AC 230 V / 50 - 60 Hz
Consumption:	AC max. 14 VA / 2 W
Supply voltage:	-15 %; +10 %
Back-up supply:	yes
Summer/winter time:	automatic
Output	
Number of contacts:	1x changeover (AgNi)
Rated current:	8 A / AC1
Breaking capacity:	2500 VA / AC1, 240 W / DC
Switching voltage:	250 V AC1 / 24 V DC
Min. breaking capacity DC:	500 mW
Mechanical life:	> 3x10 ⁷
Electrical life (AC1):	> 0.7x10 ⁵
Time circuit	
Power back-up:	3 years
Accuracy:	max. ±1 s day (23 °C)
Minimum interval:	1 min
Data stored for:	min. 10 years
Program circuit	
Illumination range:	1-50000 Lx
Program place number:	100
Program period:	daily, weekly
Data readout:	LCD display, illuminated by back up
Other information	
Operating temperature:	-20.. +55 °C
Storage temperature:	-30.. +70 °C
Electrical strength:	4 kV (supply - output)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP 20
Overvoltage category:	III.
Pollution degree:	2
Max. cable size (mm ²):	solid wire max. 1x 2.5 or 2x1.5 with sleeve max. 1x1.5
Dimensions:	90 x 35.6 x 64 mm, see page 90-92
Weight:	110 g
Weight sensor:	20 g
Standards:	EN 61812-1, EN 61010-1, EN 60255-6

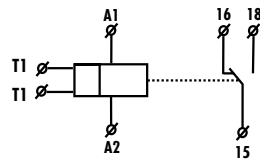
Accessories:

external sensor suitable for mounting on the wall/ in panel

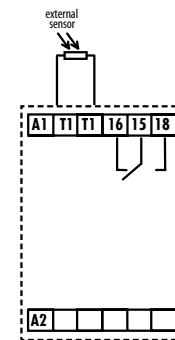


Resistance of sensor at:	Value:
1 Lx	843 KΩ
100 Lx	575 KΩ
10 000 Lx	81,86 Ω

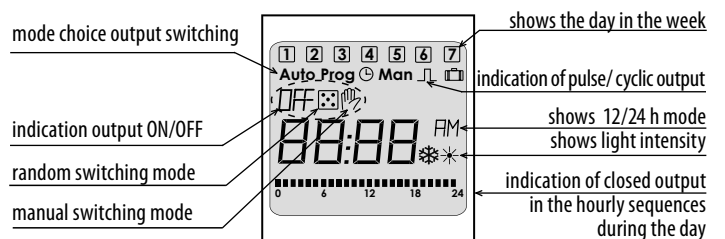
Symbol



Connection



Description of visual elements on the display



Description

