Industrigatan 4 212 14 Malmö Sweden



(EN)

Twilight and light switch

4056-02-044 Rev.: 1 A4

Warning

The device is constructed to be connected into 1-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro-technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. Too ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A,B,C) and screening of disturbances of switched devices (contactors, motors, inductive load etc.) as it is stated in a standard. Before you start with installation are supply main. Too ensure correct installation in the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver width approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.

Technical parameters	SOU-3				
Supply	L-N				
Supply terminals:	AC 230V / 5060Hz				
Supply voltage:	- 15% +10%				
Tolerance of supply voltage:	max 6VA / 0.7W				
Input (apparent/loss):	by jumper J2				
Set. the scale level of lighting					
Function twilight switch					
- range 1:	1 10 Lx				
- range 2:	10 100 Lx				
- range 3:	100 1.000 Lx				
Function light switch					
- range 1:	100 1.000 Lx				
- range 2:	1.000 10.000 Lx				
- range 3:	10.000 100.000 Lx				
Setting function	by jumper J3				
Level of light-slight:	0.1 1 x range				
Slight setting of light level:	potentiometer				
Time delay t:	0/1 min. / 2 min.				
Delay setting t:	by jumper J1				
<u>Output</u>	777				
Output contact:	1 x NO (AgSnO _x)				
Rated current:	12 A / AC1				
Switching output:	3000 VA / AC1, 384 W / DC				
Peak current:	30 A / < 3 s				
Switched voltage:	250 V AC / 24 V DC				
Min.switching output:	500 mW				
Mechanical life:	3 x 10 ⁷				
Electrical life:	0.7 x 10 ⁵				
Other information					
Operation temperature:	-30 +60°C				
Storing temperature:	-30 +70°C				
Electrical strengh:	4kV (supply-output)				
Operation position:	sensor-side down or on the sides				
Protection degree:	IP65				
Overvoltage cathegory:	-				
Pollution level:	2				
Max. cable size (mm²):	max.1x2.5,max. 2x1.5/with sleeve max.1x2.5				
Suggested power-supply cable	CYKY 3x2.5 (CYKY4x1.5)				
Dimensions:	98 x 62 x 34 mm				
Weight:	122 q				
Standards:	EN 60255-6, 61010-1				

Characteristics

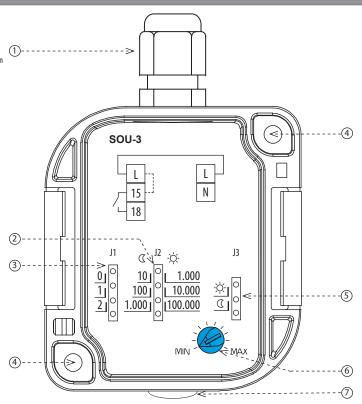
- serves as control of the device on the basis of ambient light intensity.
- external version in IP65, box for mounting on the wall
- exact built-in light sensor
- two devices in one, function setup by jumper:
 - twilight switch ramps down during decreasing ambient light intensity, ramps up during increasing. Used for switching the lights during twilight and in the night (street illumination and garden lights, illumination of advertisements, shop windows, etc..)
 - light switch ramps down during increasement of ambient light intensity, ramps up during decreasement. Used for switching the lights after reaching the ambient light seting e.g. shinning of sun (blinding shutters and Venetian blinds, solar panels activation)
- adjustable (by jumper) ranges of light level
- 3 adjustable levels of time delay (for elimination of short-term fluctuations of light intensity—for example car reflectors lighting)
- supply voltage 230V AC
- potentialless NO contact 12A/AC1 switching

Note: Device is supplied with jumper L-15 (3-wire connection).

For the correct function of device is neccesary sensor-side down device mounting.

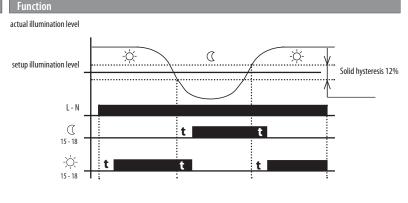
Device description

- _____Light switch
- (Twilight switch
- (1) Cable gommet M16x1.5 for cable max. Ø 10mm
- (2) Adjustable range setting (Lx)
- 3 Delay (min)
- (4) Hole for mounting on the wall Ø 4.3mm
- (5) Function setting
- 6 Slight setup finish in the frame of range
- (7) Sensor of ambient light



Connection L N potentialless NO contacts 3- wire connection

Contacts 4- wire connection



Type of load		-M-	-(M)-	======		HAL.230V	36	-~~~	
	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
mat. contacts AgSnO ₂ , contact 12A	250V / 12A	250V / 3.7A	250V / 2.2A	230V / 2.2A (510VA)	230V / 2.2A (510VA) do max. input C=14uF	1120W	Х	250V / 2.2A	250V / 7.5A
Type of load	AC13		 	———— DC1	—(M)—	—(M)—	———— DC12		 DC14
mat. contacts AgSnO ₂ , contact 12A	250V / 4.5A	250V / 4.5A	250V / 4.5A	24V / 12A	24V / 4.5A	24V / 3A	24V / 12A	24V / 1.5A	24V / 1.5A