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Made in Czech Republic

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SOU-3

Twilight and light switch



Characteristics

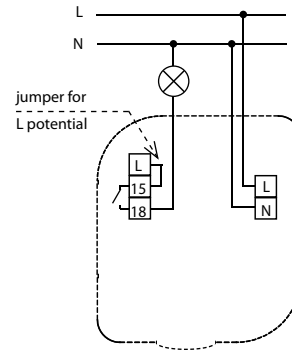
- serves as control of the device on the basis of ambient light intensity.
- external version in IP65, box for mounting on the wall
- exact built-in light sensor
- two devices in one, function setup by jumper:
 - twilight switch - ramps down during decreasing ambient light intensity, ramps up during 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 increase of ambient light intensity, ramps up during decrease. Used for switching the lights after reaching the ambient light setting e.g. shining 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 230 V AC
- potentialless NO contact 12 A / AC1 switching

Note:

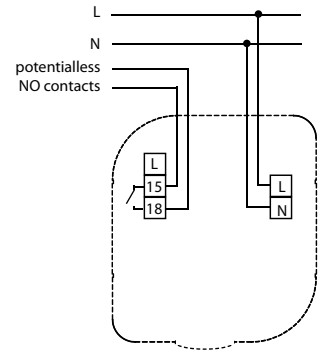
Device is supplied with jumper L-15 (3-wire connection).
 For the correct function of device is necessary sensor-side down device mounting.
 Attach the device with a suitable bonding material based to the substrate (eg round head screw, Ø 4 mm, min. Length 30 mm).

Connection

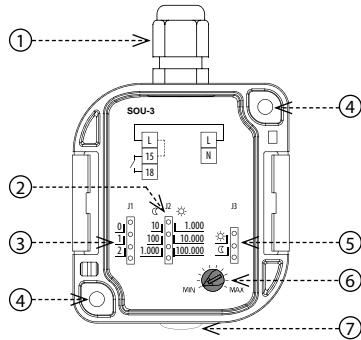
3-wire connection



4-wire connection



Description



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

Type of load	cos φ ≥ 0.95	M	M	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) to max. input C=14uF	1120W	x	250V / 2.2A	250V / 7.5A
Type of load	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	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

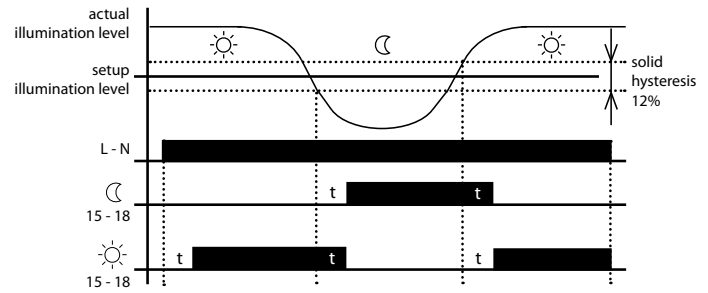
SOU-3

Supply	
Supply terminals:	L - N
Supply voltage:	AC 230 V / 50 .. 60 Hz
Input (apparent / loss):	max. 6 VA / 0.7 W
Max. dissipated power (Un + terminals):	2.5 W
Tolerance of supply voltage:	- 15% .. +10%

Setting the scale level of lighting by jumper J2	
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

Output	
Output contact:	1x NO - SPST (AgSnO ₂)
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
Mechanical life:	3 x 10 ⁷
Electrical life:	0.7 x 10 ⁵

Other information	
Operation temperature:	-30 °C to +60 °C (-22 °F to 140 °F)
Storing temperature:	-30 °C to +70 °C (-22 °F to 158 °F)
Electrical strength:	4 kV (supply-output)
Operation position:	sensor-side down or on the sides
Protection degree:	IP65
Overvoltage category:	III.
Pollution level:	2
Max. cable size (mm ²):	max. 1x 2.5, max. 2x 1.5 / with sleeve max. 1x 2.5 (AWG 12)
Suggested power-supply cable:	CYKY 3x2.5 (CYKY 4x1.5)
Dimensions:	96 x 62 x 34 mm (3.8" x 2.4" x 1.3")
Weight:	117 g (4.1 oz.)
Standards:	EN 60255-6, 61010-1



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. To 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, make sure that the device is not energized and that 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.