

## COSMIC LED & COSMIC QUAD LED - SURFACE MOUNTED LIGHTING FITTINGS

(switching: standard, MD ON-OFF or MD DIM)

### OPERATING INSTRUCTIONS

#### Dear Customer,

Thank you for the confidence you have bestowed on our company by choosing to purchase one of our devices. Prior to its use, for the sake of your own safety, please review carefully information about the product provided below.

#### INSTALLATION INSTRUCTIONS

The lighting fitting is made of plastic PC with a PC shade and is intended for surface mounting. The light source is 9W or 12W LED supplied with mains voltage via an LED power supply, integrated with the lighting fitting. The light fitting can be optionally equipped with a movement detector, either of a standard (i.e. ON-OFF) or of a dimmable (so-called DIM) type. The fitting can be also optionally equipped with an additional "Master" terminal block. If yes, then it allows optional connection of consecutive Cosmic LED / Cosmic Quad LED lamps which would work as "Slave" fittings. Then the „Slaves" would switch on and off in parallel with „Master" fitting. A "Slave" must be a special version fitting, comprising a dimmable driver. The design of the lighting fitting and the materials used ensure high mechanical strength as well as resistance to water and dust penetration.

#### USE

For illumination of plates with numbers on buildings, lighting of staircases, garages, corridors and halls as well as various types of entrances and driveways.

#### POWER SUPPLY VOLTAGE

230V/50Hz.

#### ENERGY EFFICIENCY CLASS

Cosmic LED 9W – D / Cosmic LED 12W – D / Cosmic Quad LED 9W – E / Cosmic Quad LED 12W – D.

#### INSTALLATION

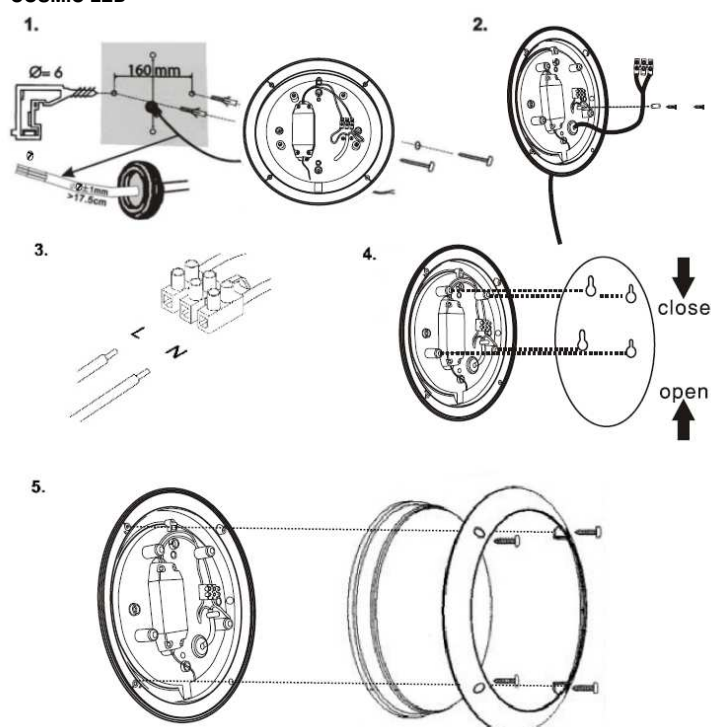
Before connecting, make sure that the power is turned off.

Electrical wiring must be connected in accordance with the instructions and applicable regulations.

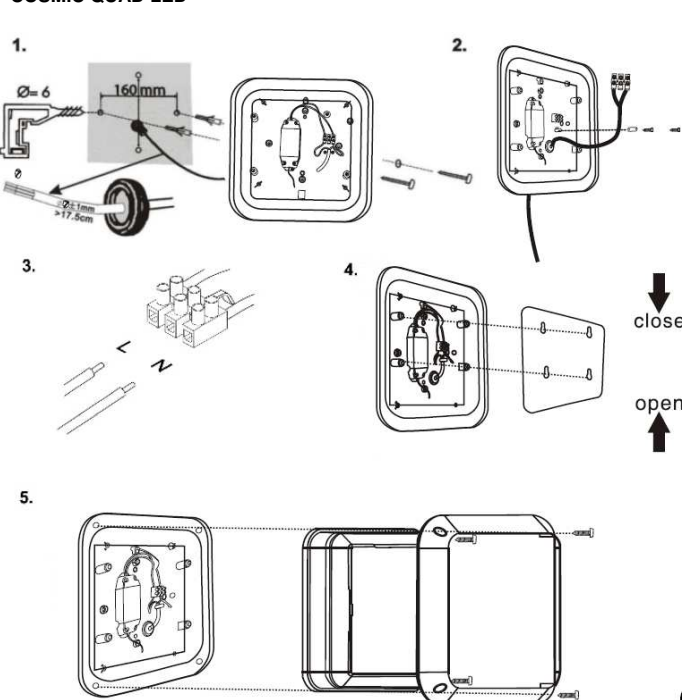
1. Drill two holes properly spaced properly in the surface on which the lighting fitting is to be mounted.
2. Insert raw plugs into the holes (attached).
3. Remove the lamp shade by loosening the mounting screws.
4. Remove the LED panel by sliding it to the side, as shown on picture.
5. Install the attached grommet in the hole in the bottom of the light fitting.
6. Conduct the power cord through the hole with a grommet.
7. Secure the lighting fitting with two screws in the two raw plugs.
8. Install the LED panel in its place.
9. Set a movement detector parameters, according to a user preference.
10. Remove part of the insulation from the power cord (app. 1 cm) and connect it to the connector terminal as follows: the phase wire (brown or black) in the hole marked "L", the neutral wire (blue) in the hole marked "N" and (depending on version) the protective (yellow- green) in  $\perp$  or "PE".
11. If a lamp is to work as "Master" fitting, one need to connect a first "Slave" fitting in line to a "Master output" terminal block.
12. Put the shade on so that the cover gasket is aligned with the corresponding edge on the bottom part.
13. Put then the outer ring and screw it in place by means of four screws.

#### INSTALLATION STEPS ILLUSTRATED

##### COSMIC LED



##### COSMIC QUAD LED



## FEATURE OPTIONS

### Additional "Master" terminal block:

- ON-OFF version can be optionally equipped with an additional "Master" terminal block. It allows optional connection of consecutive COSMIC LED lamps which will work as "Slave" fittings. Then the „Slaves" switch on and off in parallel with „Master" fitting;
- DIM version can be also equipped in the above functionality, however it needs "Slave" lamps of a special version, which comprise a dimmable driver.

### Optional movement detector:

The lamp can be equipped in one of several microwave movement detectors and can operate either in a standard (i.e. ON-OFF) mode or in a dimmable (i.e. DIM) mode. It blocks for the luminaire to operate when there is no one in proximity, what gives energy savings. There can be used following movement detectors: ST701F or MC030S (for ON-OFF) either ST760 or MC003V (for DIM). Their detection range: 360°, detection distance: up to 8 m (6 m for MC030S), HF system: 5,8 GHz, ISM wave band, transmitting power: from below 0.2 mW to 0.5 mW, depending on model. The default factory settings used are as follows:

- ON-OFF version (ST701F detector): LUX = 2000lx, SENS = 8m, TIME = 5s;
- ON-OFF version (MC030S detector): Daylight sensor = Disable, Detection area = 100%, Hold time = 5s;
- DIM version (ST760 detector): Daylight sensor = 2000lx, Detection area = 100%, Hold time = 5s, Stand-by period = 10s, Stand-by dimming level = 20%;
- DIM version (MC003V detector): Daylight sensor = Disable, Detection area = 100%, Hold time = 5s, Stand-by period = 5s, Stand-by dimming level = 20%.

The factory settings enable to test a fitting both during production and during final installation. The parameters should be modified during installation according to a final user's preferences.

## MOVEMENT DETECTOR SETTING

### Ambient light setting

Can be adjusted using "LUX" (ST701F) or "Daylight Sensor" (other models) section of dip switches. There are several settings available, out of which the ones from between 2lx and 10lx are designed for operation in darkness, the ones from between 25lx and 150lx allow operation during twilight period, while 2000lx or "Disable" settings can be used to determine working during both day and night or for the purpose of testing if a lamp or a detector work properly.

### Sensitivity setting

Can be adjusted using „SENS" (ST701F) or „Detection Area" (other models) section of dip switches. There are several settings available, out of which 8m (for ST701F) or 100% (other sensors) gives maximum sensitivity, i.e. optimum operation in 8m or 6m radius (16m or 12m diameter) and allows them to be used in biggest spaces, e.g. big halls or long corridors. Other settings can reduce this range, depending on application.

### Time-delay setting

Can be adjusted using "TIME" (ST701F) or „Hold Time" (other models) section of dip switches. There are 6 settings available - to be chosen according to a user preference, from 5s up to 30min. The counting restarts with every new movement detected.

### Stand-by settings

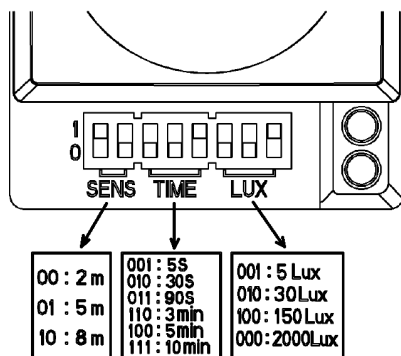
Concerns dimmable versions only (ST760, MC003V). Intended to create a comfort light while assuring energy savings after "Hold Time" (i.e. 100% light) was finished. Can be adjusted using "Stand-by Period" and "Stand-by Dimming Level" sections of dip switches.

"Stand-by period" will last as long as determined by a user, starting from 5s or 10s up to 1h. When there is no new movement during the set time, the lamp is switched off. Additionally, sensors are equipped in functions described as "Disable" or „+∞" – which enable to maintain the comfort light level all the time, until new movement is detected (light is never off). The setting 0s for ST760 allows inhibition of a dimmable operation.

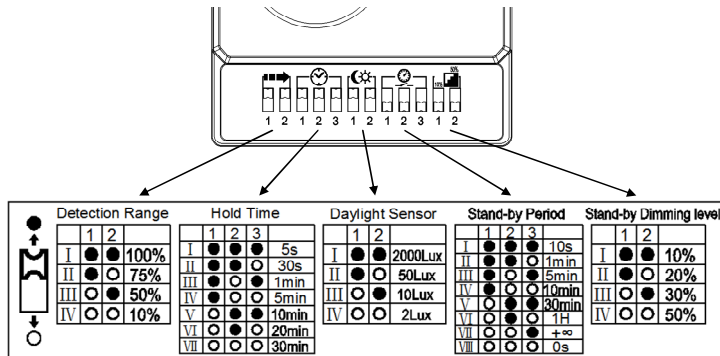
„Stand-by Dimming Level" means a desired comfort light level, which can be chosen between 20% and 50%, with several steps between, depending on sensor model.

On the drawings below there are all possible settings, depending on the detector.

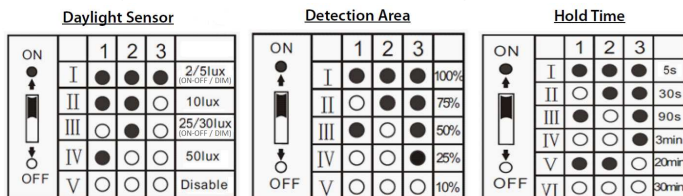
All settings for ST701F sensor:



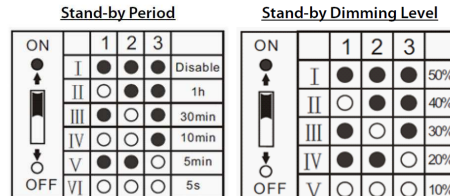
All settings for ST760 sensor:



All settings for MC030S sensor and basic settings for MC003V sensor:



Dimmable settings for MC003V sensor:



## REMARKS

- any settings, installation, replacement of light sources can only be carried out when the supply voltage turned off;
- carrying out any work when the power is on may cause electric shock. If in doubt, please contact a qualified electrician.

## DECLARATION OF CONFORMITY

The products described herewith meet the requirements of the following EU Directives:

- Low Voltage Directive;
- Electromagnetic Compatibility Directive.

## GUARANTEE

Intelight Sp. z o.o. provides free removal of faults resulting from defects in material and workmanship by repairing or replacement of the device, for a period of two years from the date of purchase. In case of malfunction, please deliver the product to the place of purchase along with a warranty tag. The guarantee shall not cover wearing parts as well as defects resulting from improper operation of the device, in particular mechanical damage or malfunction caused by temperature or chemical agents. Please also note that the costs of unjustified complaint shall be charged to the customer. For complete guarantee details please visit our website at: [www.intelight.eu](http://www.intelight.eu)

Intelight Sp. z o.o. shall not liable for damages resulting from improper installation or use of improper light source.

Intelight Sp. z o.o. reserves the right to change the design of the product.



This symbol indicates selective collection of electrical and electronic equipment. Obsolete equipment must be returned to appropriate WEEE collection point.