

Package Contents

1	Luminaire
1	Battery
1	Set of lens accessories
1	Manual
1	Label for 3hours duration

General

These devices are used indoors and (ta 40°C) in places where emergency light is needed. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. In case of a mains power supply failure, the device enters emergency mode and the illumination LED turns on. When the mains power supply is restored the device turns to normal operation.

**Manual Operational Test**  
This test can be done by pressing the test button briefly (less than 5 seconds). The light source and the emergency circuit of the device are tested. The manual test can be conducted only if the mains power supply and the battery are connected. During this test period the white LED will lit and the red LED will flash. The battery must have adequate charge. This test lasts for 3 seconds.

**Manual Autonomy Test**  
A duration test can be conducted by pushing the button steadily for 5 to 10 seconds. In order to be performed, the mains power supply should be connected and the battery should be fully charged. During this test period the white LED will be lit and the yellow LED will flash. This test last for the stated duration.

**Automatic Operational Test**  
This test includes all the operations that are provided in Manual Operational Test and is conducted automatically every 15 days and lasts 3 seconds.

Indications LED Status

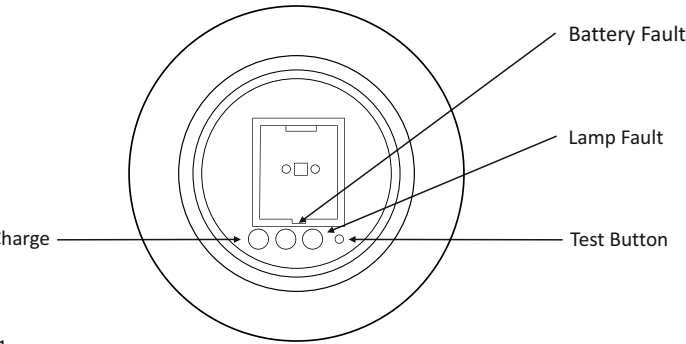
CHARGE (green)	BATT. FAULT (yellow)	LAMP FAULT (red)

Description
Charging (battery test not possible while charging)
Normal
Mains off (battery not connected or charger fault)
Light Source Test
Light Source Fault
Battery Test
Battery Fault
Battery Fault & Light Source Fault

Note:

	Permanently ON
	Blink
	Off

Indications



Battery Fault

Lamp Fault

Test Button

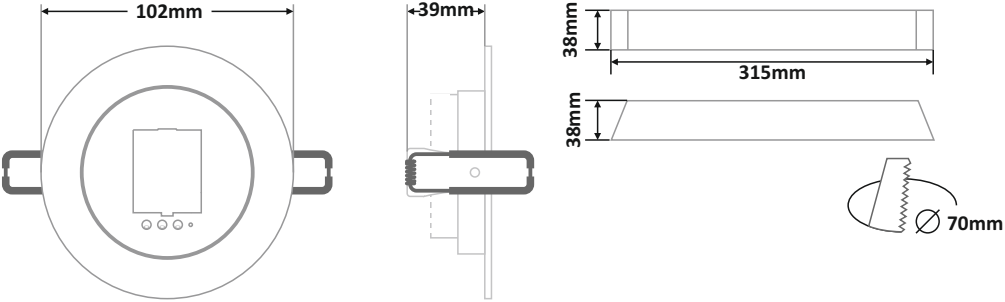
Charge

**Automatic Autonomy Test**  
The Automatic Autonomy Test is conducted every 6 months and measures the device's back up operation and emergency duration. This test includes all functions of the Manual Autonomy Test.

**Resetting Errors**  
Push the test button for >10 seconds to delete all indicated errors. Then the luminaire enters regular operation mode

- ATTENTION!!!**
- Operations for installation, maintenance or testing must be done by authorized personnel only.
  - Always use in any case round mains cable, with a diameter of 5-10mm (H05RN-F type 2x1mm² or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the IP rating).
  - The device must be connected to the mains power supply through a circuit breaker that is depends on the total line's power load.
  - In case of battery replacement, it must be replaced by the same type, by the manufacturer or a competent person.
  - In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.
  - It is not allowed to discard batteries into common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

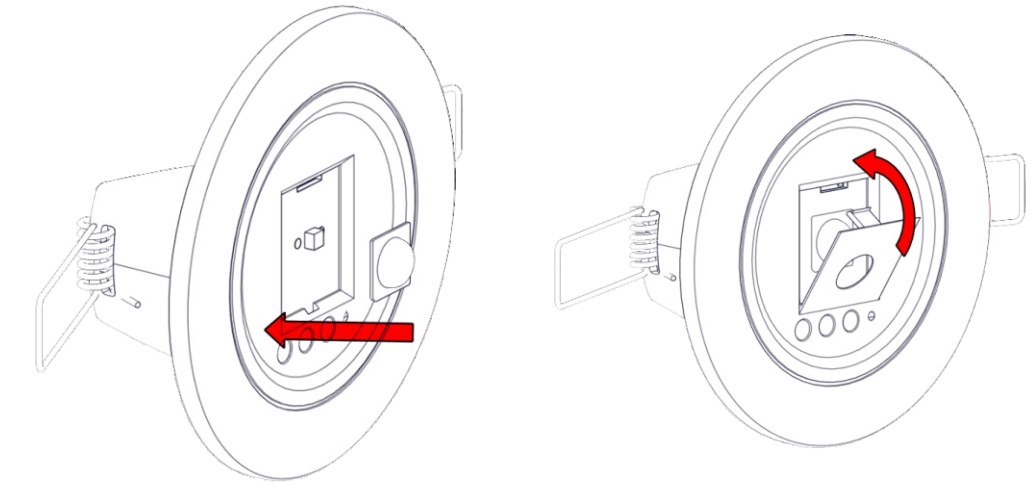
Dimensions



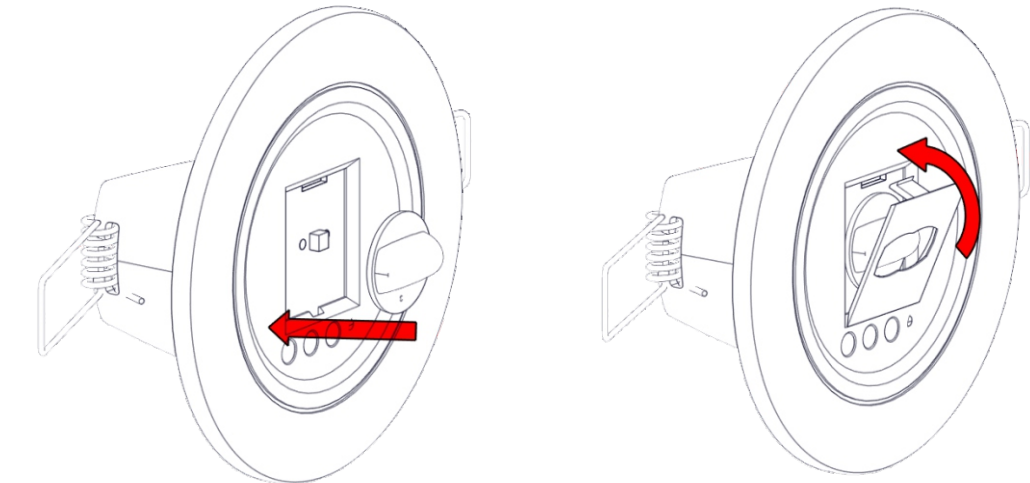
To install this luminaire, a hole Ø 70 mm must be cut in the suspended ceiling.  
For correct mounting, observe the light direction.

Lens Installation

Anti-Panic



Escape Route



In order to place the proper lens (Anti - Panic or Escape Route), first be sure that the luminaire is not connected in the mains power supply and the battery is disconnected. Place the proper lens and retaining cover on the luminaire. Be careful not touch the LED with your hand.

Installation Instructions

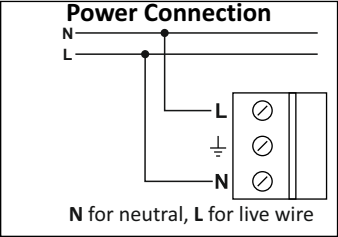
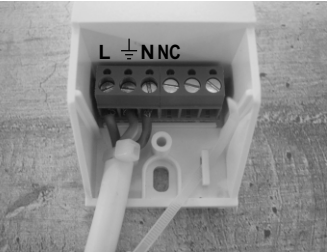


Unfasten the mounting screws, **A** for battery compartment and **B** for electrical connections. Remove the respective covers.

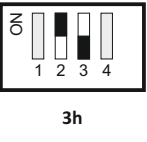
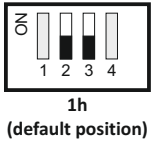
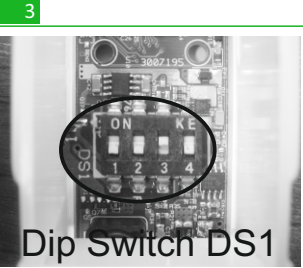
1  
Battery Connection



Connect the battery and place the battery inside the compartment. Refit the cover and fasten the removed screw (**A**) in step 1.

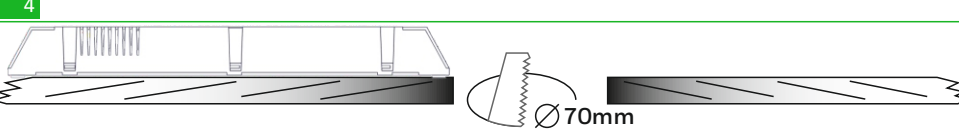


Connect the mains cables to the terminal blocks. **L** for live wire **N** for neutral. The ground terminal is for termination purposes only. Power supply cables cross section should be 0.8 – 3 mm². After the connection of the cables, secure them with the provided ties. Refit the cover (**B**) and fasten the removed screw in step 1.



The user can select one of the 2 available minimum autonomy durations: 1 hour and 3 hours. The selection must be done while the luminaire is disconnected from AC and battery supplies. The selection is achieved through Switches 2 & 3 of

DS1 according to image above. Switches 1 and 4 are not used. One additional label is included in the package for 3 hours duration (180), the installer must cover the default 1 hour (60) printing. **Please take notice of the orientation of the label.**



Open a hole in the false ceiling. (Required opening Ø70mm). Install the electronic ballast on the suspended ceiling.



To install the spot, bend one spring to get into the hole of the suspending ceiling. Bend the other spring and push the luminaire upwards until it is securely mounted. The device is now ready to operate. **ATTENTION!** For the escape route lens, careful the orientation of the spot.

**NOTE!!**  
After finishing the installation you must power the luminaire for at least 24 hours in order to completely charge the battery. The rated autonomy duration can be achieved after that time.

Battery Replacement

- It can be done only by a competent person and after the mains interruption.
1. Disconnect mains, carefully pull the luminaire and main unit down, make sure that the springs do not snap.
  2. Unscrew the battery cover (step 1 of installation procedure, screw A).
  3. Disconnect the battery and install a new one of the same type and characteristics.
  - 4.Refit the cover and fasten the screw.

Important notice for the installed luminaires in one area !!!


The installer must connect the battery’s connector first and then should power the luminaire.

The time between batteries connection must be, at least 1.5 minute.

With this variation, it is ensured that the non synchronized Automatic Autonomous Test for two or more luminaires installed in one area, is not conducted in the same day.

- Note:** In case of mains power disconnection for a period of more than two months, the battery must be disconnected.
- Note:** In case of battery replacement, this must be replaced with parts of the same type and characteristics. The replacement must be performed by the manufacturer or a competent person.
- Note:** If the supply cable of the luminaire is damaged, it shall exclusively be replaced by a competent person in order to avoid hazard.

ATTENTION

 The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

**NOTE!!** The light source is non-user replaceable.



CAUTION : Do not view directly with bare eyes.

**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

**X:** Self contained

**0:** Non maintained operation (\*)

**A:** Including test device

**F:** Automatic test gear complying with IEC 61347-2-7 denoted EL-T

**60:** 60 minutes duration

**180:** 180 minutes duration


**X 0 A F 6 0**

(\*) Non Maintained operation: The luminaire lights its illumination source, only in power supply’s failure.

Technical Characteristics

KIT-230/DUO		
OPERATION VOLTAGE	220-240V AC / 50-60Hz	
MAXIMUM POWER CONSUMPTION	3.4W / 3.8VA	
MAX. SUPPLY CURRENT	16.2mA AC	
MINIMUM POWER FACTOR (λ)	0.9	
U-OUT	5V	
Prated/Irated	1h: 2.3W / 780mA	3h: 1W / 320mA
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic Insulation	
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic Insulation	
WORKING VOLTAGE AT WHICH THE INSULATION IS DESIGNED	500V	
BATTERY (NiMH, 4KRMT 15/51)	4.8V / 1.2Ah	
CHARGE TIME	16 hours	
BATTERY PROTECTION	Deep discharge and overcharge protection	
BATTERY SUPPLY CURRENT DURING EMERGENCY	(Vbat=4.8V):570mA	(Vbat=4.8V):225mA
BATTERY CHARGE CURRENT RANGE	88 - 150mA (normal charge) / 20 - 50mA (trickle charge)	
BATTERY DISCHARGE CURRENT RANGE	1h: 480 - 700mA	3h: 180 - 270mA
MINIMUM DURATION	1, 3 hour manually selected (default 1h)	
LIGHT SOURCE	1 White Power LED	
EMERGENCY ILLUMINATION	1h : 360lm	3h : 170lm
INDICATIONS - CONTROLS	Charge, Lamp Fault, Battery Fault - Test Button	
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015 EN 61547, EN 61000-3-2, EN 61000-3-3	
OPERATION TEMPERATURE RANGE	5 to 40°C	
CONTROL GEAR MAX. TEMPERATURE:tc	57°C at D2	
IK RATING	IK06 – LAMP HOUSING / IK02 – LED DRIVE	
DEGREES OF COVER PROTECTION	IP20	
RELATIVE HUMIDITY	Up to 95%	
CONSTRUCTION MATERIAL	ABS/PC	
EXTERNAL DIMENSION (L x W x H)	ø102 x 39mm for Spot / 315 x 38 x 38mm for Ballast	
WEIGHT	459gr.	
GUARANTEE	3 years (1 year for the battery)	
CONTROL GEAR WITH AUTOMATIC TEST FUNCTION	<div>EL-T</div>	
Controlgear classification in accordance with IEC 62034: with automatic test function		
The controlgear has mains-connected windings of transformer		
The controlgear is proof against supply voltage polarity reversal		

LED Characteristics

MANUFACTURER	Olympia Electronics S.A.	
MODEL NUMBER	2210195	
VOLTAGE RANGE	2.7-3.3V DC	
NOMINAL POWER	1h: 2.3W	3h: 1W
CONNECTIONS	Non reversible connection between main pcb and led module	
TEMPERATURE (tc)	60 °C max. across the board	
LED Module Type	BUILD IN 	

Warranty

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

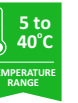


72nd km. O.N.R. Thessaloniki-Katerini  
P.C. 60300 P.O. Box 06 Eginio Pierias Greece  
[www.olympia-electronics.com](http://www.olympia-electronics.com)  
[info@olympia-electronics.gr](mailto:info@olympia-electronics.gr)



KIT-230/DUO

SELF TESTING NON-MAINTAINED  
EMERGENCY RECESSED LUMINAIRE SPOT  
WITH INTERCHANGEABLE LENS



Thank you for your trust in our products  
Olympia Electronics - European manufacturer