

SELF CONTAINED LED EMERGENCY

Model: ESCAPE LED AT

Self-contained emergency equipped with LED lamp 1*3W (CREE) with special wide angle lens and constant current control, ideal for installation in escape routes.

The luminary is designed to work in Maintained & Non Maintained mode depending on the connection and has a small green LED which indicates the power presence and battery charging.

Characteristics:

- Supply 230 V 50/60Hz.
- Input current: 40mA (Maintained mode).
- Maintained/Non Maintained.
- Automatic TEST function (Self –test).
- Tri-color LED (green/red/yellow) to indicate the different stages of the luminary.
- Output voltage: 3VDC/Output current: 600mA (constant current control)/Output power: 1.8W.
- Autonomy superior 1 or 3 hours.
- Protection against Overloading and end of Battery Discharge.
- Color Temperature 6000-6500K/Lumens: 150Lm.
- Grade IP20/Class II device / Ambient temperature: 0-50°C.
- Standby-restart and manual control of AUTO TEST function via Telemando TM.
- Battery charging 24 hours.
- Max cross section of cable to be connected 1,5mm.
- Recessed mounting.
- CE marked as per directives 2006/95/CE and 2004/108CE EMC.
- Manufactured in accordance to norms UNE-EN 60598-2-22/UNE-EN 61347-2-13.

SELFTEST Function

The Emergency Luminary has a programmed micro controller to execute automatically or manually a series of verification TESTS, to verify the working of the Luminary.

Basically these TESTS do the verification of the two of the most important elements of the Luminary:

1. Emergency Lamp (3W LED): Runs an Automatic TEST WEEKLY during 15 seconds.
2. Battery (Autonomy): Runs an Automatic TEST of 1 hour duration, every 26 weeks.

*uses an internal clock for the timings and it is not as perfect as a profession calendar clock.

SELF TEST programming:

Once the Luminary is connected to the Power for the 1st time, the dates for AUTOMATIC TESTS are set. It runs a Verification TEST of LED LAMP weekly and a verification TEST of the BATTERY every 26 weeks.

In a situation, when there is a POWER failure coinciding with the execution of the Programmed BATTERY TEST, the TEST is postponed and is executed when NEXT LAMP TEST is programmed. If during a TEST there is a power failure, the TEST will continue till the end. The battery TEST can be cancelled by pressing the TEST button for more than 6 seconds.

The TEST results are indicated by Green & Red LED and are memorized until performing RESET.

RESET:

On doing the RESET all the Timings and Alarms are **RESTARTED**. To perform the RESET, disconnect the battery connector, wait approx. 10 seconds and connect the battery. All memorized FAULTS are deleted only if the indicated fault is solved, if the cause of the fault is battery, then the next battery test will be programmed within 1 week to check the correct autonomy of the battery.

Manual TESTS:

The LAMP and battery TESTS can also be done manually by using TELEMANDO TM (pressing ON).

LAMP TEST: To execute the LAMP TEST manually, Press the TELEMANDO TM ON button during 3 to 6 seconds.

BATTERY TEST: To execute the BATTERY TEST manually, Press TELEMANDO TM ON button for more than 6 seconds

On executing the manual test all the times are RESET (lamp test every week & battery test every 26 weeks from the date of execution of manual test). During the 1st 24 hours or after prolonged power failure it only allows to do the lamp TEST and not the battery test.

Standby-restart (Emergency mode)

In emergency mode it is possible to switch off and ON the luminary to save battery power, to do this press the ON button of TELEMANDO more than 6 secs. Telemando can be connected to several luminaries (see connection diagram)

Test results & different situation Indications:

1. Luminary OK: GREEN Led ON or blinking during 1st 24 hours of installation.
2. Lamp Failure: RED led blinking.
3. Electronic driver failure: YELLOW led blinking.
4. Battery Failure (Autonomy): RED Led ON.
5. Power Failure or Voltage below 170 Volts: RED and GREEN Led OFF.
6. Lamp test in progress: GREEN Led blinking (1 short blink).
7. Battery test in progress: GREEN Led blinking (2 short blinks).
8. On executing the manual test (via telemando): GREEN/RED led illuminate alternatively.

Installation:

- Make a hole of 57 mm diameter in the ceiling to introduce the driver and the battery and recess the luminary once connected. (refer to the connection diagrams on next page for connection and follow the following steps)
- Switch OFF the power to make the installation.
- Make connections to the connector (N,L), this line should be permanent, as it is charging the battery permanently and if the line is cut the luminary will enter in emergency mode.
- Make connection to connector (L1) (see Maintained mode connection diagram), It is also possible to connect a switch in this line to switch ON/OFF the in maintained mode (see connection diagram)
- Connect the 3*1W LED lamp wire to the driver connector (LED LAMP + -) respecting the polarity indicated (red+/black-)
- Connect the green LED wire to the driver connector (battery charging indicator), respecting the polarity, the special connector enables the possibility of connection error.
- Connect the battery to the driver verifying the correct polarity. It is advisable to maintain a distance with LED lamp.
- Introduce the driver and battery through the ceiling hole, and recess the luminary in the ceiling, Switch ON the power and verify that the Green LED indicating the battery charging and 3*1W LED lamp (in permanent mode) is ON.

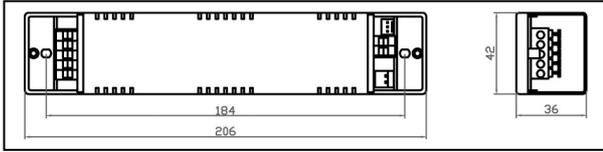
IMPORTANT: Do not disconnect the LED lamp from the driver in working mode.

Maintenance:

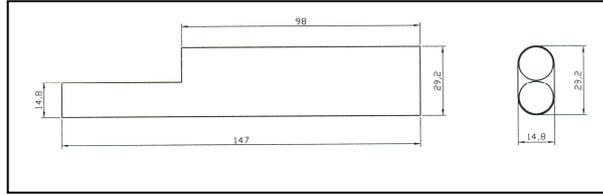
The manipulation and the installation of the kit should be done by qualified technicians. Always verify that the Voltage of the Mains is adequate to the input voltage of Luminary. Before installation make sure the mains is OFF and the battery is disconnected.

The Ni-cd battery has a life cycle of 4 years or 400 charging cycles, after this, it should be substituted and date of substitution should be notified.
The old battery should be recycled in a proper way, as it can be harmful for the environment.

Dimensions:



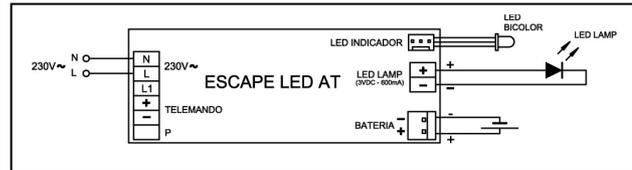
weight: 130gr.



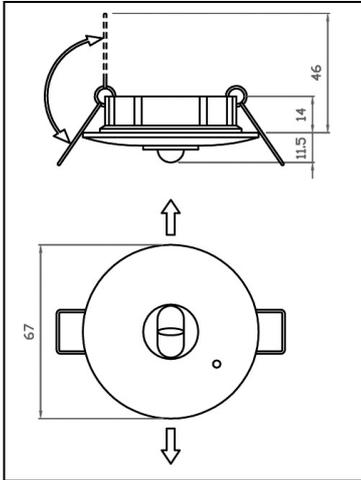
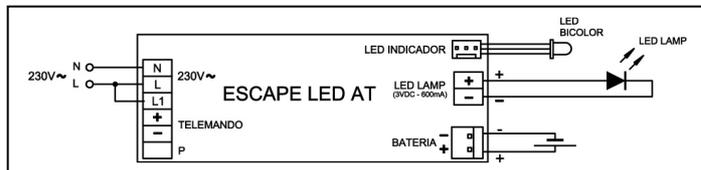
weight: 107gr.

Connection diagram:

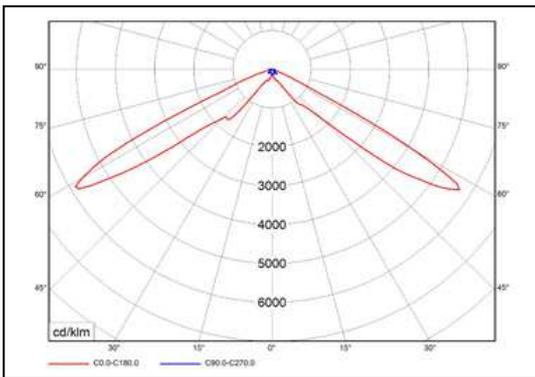
Non Maintained



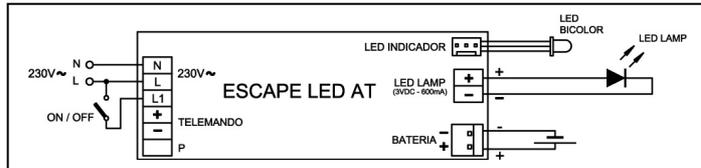
Maintained



The arrows above indicate the direction of maximum opening of light by lens.



Maintained with possibility ON/OFF led lamp



Distance table

Min 1 lux on axe of evacuation route

Mounting height (m)	2.00	2.50	3.00	3.50	4.00
2.00	4.49	10.95	9.34	4.60	2.14
2.50	5.36	13.08	11.07	5.65	2.59
3.00	6.15	15.03	12.62	5.18	1.34
3.50	6.87	16.76	14.23	5.52	1.14
4.00	7.85	18.47	15.91	4.13	0.78

Telemando connection

