SAFETY & SECURITY JADE

SELF-TESTING MAINTAINED EMERGENCY LUMINAIRE

CE

TECHNICAL CHARACTERISTICS	GR-390
OPERATION VOLTAGE	220-240V AC/50-60Hz
MAXIMUM POWER CONSUMPTION	13 VA
BATTERIES (Ni-Cd)	3.6V/1.5Ah
BATTERY PROTECTION	From overcharge and full discharge
INDICATIONS - CONTROLS	Charge, lamp fault, fault indication LED, TEST button
CHARGING TIME	24h
MINIMUM AUTONOMOUS DURATION	90 min
ILLUMINATION SOURCE	2X16 LED
ILLUMINATION (230V / EMERGENCY)	200/200lm
DEGREES OF COVER PROTECTION	IP 40
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22
OPERATION TEMPERATURE RANGE	0 to 40 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	Bayblend FR3010, transparent polycarbonate
EXTERNAL DIMENSIONS	350 x 134 x 60 mm (CRV 362 x 134 x 90 mm)
TYPICAL WEIGHT	870gr (CRV 950gr)
GUARANTEE	3 years (1 year for the battery)

GENERAL

These luminaires are used in places where emergency luminaires are needed.
Each luminaire must be permanently connected to mains power supply.
In normal operation the led strip lights and the battery is charging.
In case of a mains power supply failure the luminaire will light the led strip automatically in emergency mode. When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions in page 3.

Battery Cut-off

The luminaire enters in this operation when the mains power supply fails and battery has lost its energy. During this operation the luminaire enters the idle state and battery consumption is negligible, in order to be protected from deep discharge.

Battery charging

The battery charging is completely controled. In this case, is achieved the perfect battery maintenance , as well as the elongation of its duration. When the battery has completely charged, it charges with a maintenance current.

Manual Test

The manual test can be conducted only if the main power supply and the battery is connected. By pressing the test button briefly an operation test is initiated. During this test period all indication LEDs are OFF.

Automatic test

This test includes all the operations that provide the manual test and is conducted automatically every 15 days. In order to be performed, the main power supply and the battery should be connected.

Automatic Autonomous Test

The Automatic autonomous Test is conducted and measures the luminaire`s back up operation.
This test is conducted automatically every six months. In order to be performed, the main power supply and the battery should be connected (the battery should be charged). If the battery is not charged, the test is postponed until the battery is completely charged.

Back Up Operation

The autonomous duration of battery during emergency mode is at least the one that is stated in the list of the first page. During emergency mode, a LED strip test is also performed.

Resetting Errors
Push the Test button for 5 seconds, to extinguish all the indicated LED errors. Then the luminaire enters regular operation mode.

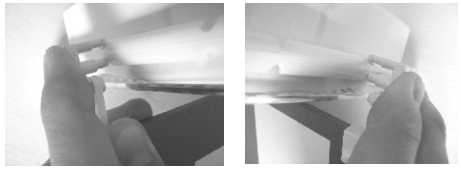
Indication LED status (with connected mains power supply).
AC Charge
On: Good charge current.
Off: No battery (No charging current or disconnected battery).
Lamp fault
On: faulty LED strip.
Off: Good LED strip.
Fault
Off: Battery OK.
Blink (With **AC Charge LED** ON): Autonomy or low battery problem
(the battery must be replaced).
Blink (With **AC Charge LED** Off):
No charging current or disconnected battery.

MARKING PANEL SP-114
A marking panel SP-114 can be installed on the luminaire in 3 different locations. This marking panel is installed perpendicular to the diffusor of the luminaire, as shown in the pictures below. The panel is pre-printed and has a plastic accessory on each side that is used to fasten the panel to the luminaires.
There are 2 arrow stickers that can be placed in each side of the marking panel to point to the desired direction.

NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:
X: Self contained
1: Maintained
A: Including test device
***90: 90min duration**

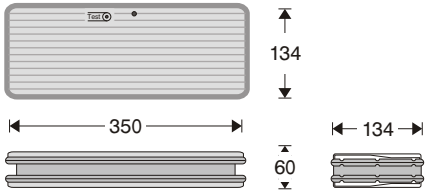
ATTENTION!!!
1. Operations for installation, maintainance or testing must be done by authorized personel only.
2. The device must be connected to the mains power supply thru a fuse dependent by the total amount of the line's power load.
3. In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.
4. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

Placing the SP-114 marking panel
Place the plastic mounting accessories of the marking panel as shown in pictures.

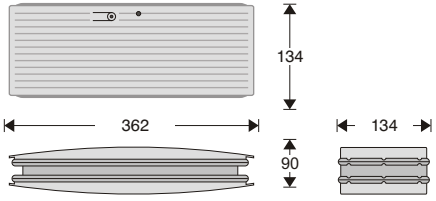


NOTE!! This marking panel (SP type) can not be installed on CRV luminaires.

Double Easy Light luminaires



Double Easy Light/CRV luminaires



*All the types of **Easy Light** series, are also produced with a new designed crystal with **GR-XXX/CRV** code, for example **GR-390/CRV.***

INSTALLATION INSTRUCTIONS

Connecting the terminal block

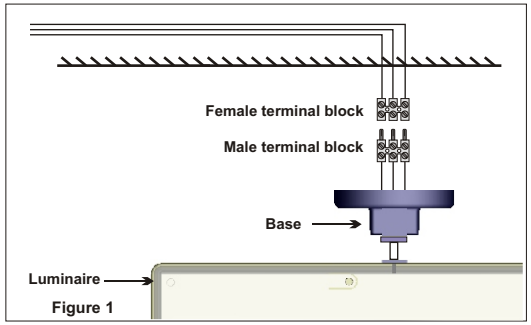


Figure 1

Connecting to the mains power supply

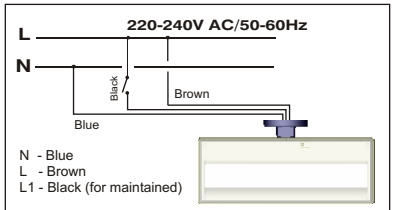
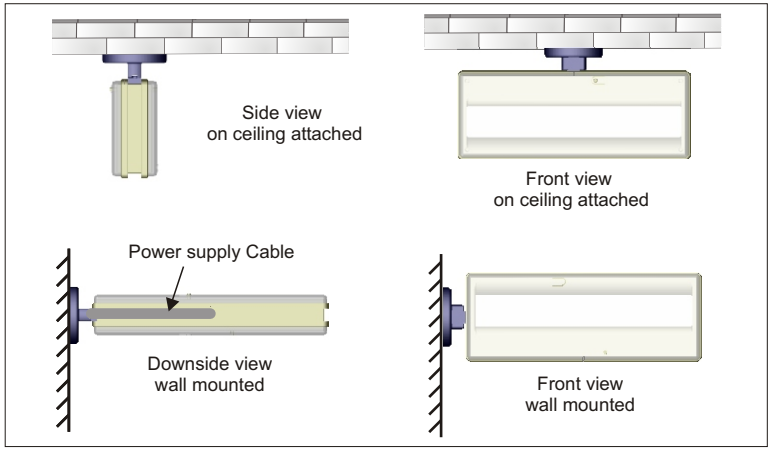


Figure 2: Connecting to the mains power supply

Mounting methods



① Connect the mains cables to the included detachable terminal block (figure1). N for neutral, L for live wire and L1 for the maintained operation. The L1 wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire. For permanent maintained operation use two wires to power the luminaire, N for neutral and L for live wire, and link the L and L1(Figure 2).
② Use the included mounting parts to mount the plastic base and follow the mounting methods to mount the luminaire to the wall or ceiling.

PLACING A-CRV PARTS
To install the curve crystal **A-CRV** you must first install the included plastic extension to mount it on the TEST button.