

LE50

EMERGENCY LIGHTING KIT FOR LED INSTALLATION GUIDE

The electronic units for emergency lighting are suitable for power LED (current controlled). They can be used indifferently for maintained (main, 220-240V, in combination with LED electronic driver), or emergency operation. All the models have sealed NiCd batteries able to guarantee high efficiency with high temperatures. The electronic units can be put on a false ceiling or an a ceiling lamp, module, channel, thus allowing any light spot to be qualified for emergency in a simple and quick way, where needed.

The electronic devices are designed according to EN61347-2-13, EN61347-2-7, EN61547, EN55015, EN60598-2-22, EN61000-3-2, SELV.

IMPORTANT: Always read the present instruction leaflet

- For the wiring please refer to enclosed wiring diagrams.
- Great attention must be paid to polarity during the installation of the battery.
- Keep batteries away from heat sources (away from electronic driver or LED source).
- In order to check the correct functionality we recommend a charging of about 24 hours.
- This system is made to be powered only with the supplied batteries: do not connect any external battery charger.
- It is advisable to effect periodically (every 3 months) at least one discharge and charge cycle in order to assure the max efficiency.
- Replace the batteries every 4 years
- Before every maintenance operation, disconnect all mains.
- This product contains material which could be toxic if improperly disposed in the environment.
- Keep this instruction leaflet for any further reference.

ATTENTION: This unit should only be used for purposes for which it has been intended and should be installed using the instructions which are provided. The manufacturer cannot be held liable for damages to person, animals or objects as a result of improper, unreasonable and wrong usage.

Technical characteristics:

- supply voltage: 220+ 240V - 50/60Hz
- supply current: 20mA - $\cos\phi 0.6$
- max case temperature: 70°C
- ambient temperature: 5+ 50°C
- recharging time: 24h
- terminals max connection size: 1.5mm²
- connected to power supplies 90V maximum output voltage, 0,9A maximum output current
- charging device with supply is reinforced insulation able to recharge the battery normally after the test in clause 22.3 of the IEC61347-2-7:2007

LE5041- LE5041BB - 1h - Batt. NiCd 4,8V-1,6Ah	
emergency working voltage (V)	emergency output current (i)
9 - 48V	347-65mA

LE5071/3-LE5071/3BB - 3h - Batt. NiCd 7,2V-1,6Ah	
emergency working voltage (V)	emergency output current (i)
9 - 48V	170-32mA

The model LE5071/3, guarantee 3h duration after 12h recharge.

ATTENTION

To not cause led damage, please connect following this order:
1)led source; 2)battery cable;3)mains connection

NB:Do not disconnect and connect the led source during emergency operation

WIRING

Led source out: connect LED source to the LED OUT terminal (always respect cable polarity).
Battery: connect battery to BATT Terminal.

Direct Line (Charge): connect the terminals 1-2 (L - N) to the mains that must never be disconnected (battery charge). When there is a decrease in mains voltage the emergency automatically starts working.

External driver LED connection - maintained version:

connect the terminal (+) and (-) POWER IN to external driver (always respect polarity).
Led indicator: shows the presence of mains and battery incharge. It must always remain connected to device in a visible place outside near the lamp qualified for the emergency.

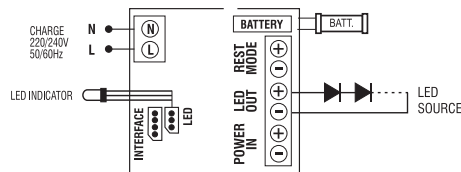
DALI or Self-test (optional): DALI version or self diagnosis system with external module MAT4 DALI.

Remove the green LED from the emergency kit.

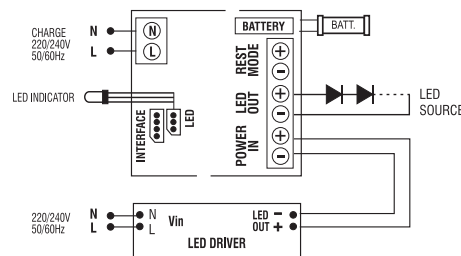
Connect the MAT4 to the emergency kit by inserting the connector 4-pole in the "INTERFACE" socket and the 3-pin connector in the "LED" socket on the emergency kit.

LE50- WIRING DIAGRAMS

non-maintained (emergency only)

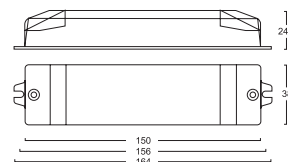


maintained with external electronic driver



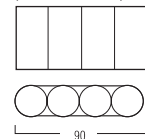
DIMENSION AND WEIGHT

LE50 - 0,13Kg

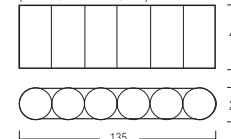


Battery:

BAT4816P
4,8V-1,6Ah | 0,20Kg
(LE5041 - LE5041BB)

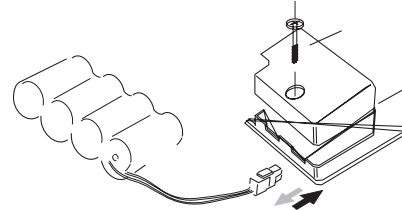


BAT7216P
7,2V-1,6Ah | 0,30Kg
(LE5071/3 - LE5071/3BB)



BATTERY REPLACEMENT

Sealed NiCd batteries.To replace batteries follows the instructions.Use only original batteries.**Do not discard in the environment. Return to manufacturer.**

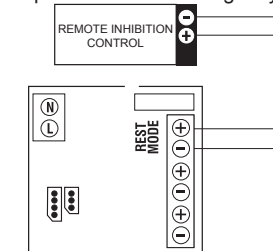


INHIBITIONS WIRING DIAGRAMS

rest mode facility

REMOTE CONTROL DEVICE

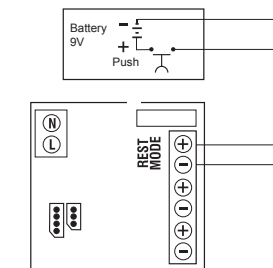
It allows both to switch off and switch on the emergency lamps during emergency mode. The rest mode is automatically resetted when mains voltage is restored. This remote control device can be installed so as to operate several emergency units at the same time.



PUSH BUTTON AND BATTERY

It allows only to switch to "rest mode" during emergency mode, using a remote push button and 9V battery.

The rest mode, in accordance with Standards prescriptions, is automatically resetted when mains voltage is restored.



FLUX TABLE

The table indicates the values of current supplied by the electronic unit during emergency operation, in relation to the Vf (forward voltage) of the LEDs.

LE5041 LE5041BB		LE5071/3 LE5071/3BB	
Vled(V)	Iled(mA)	Vled(V)	Iled(mA)
9	347,1	8,58	176,1
11,8	285,8	11,28	137,9
14,5	239,5	13,95	112,5
17,3	203,5	16,6	95,3
20	175,2	19,27	82,7
22,6	151,6	21,92	73,2
25,3	132,1	24,55	65,05
27,9	115,5	27,17	59,7
30,6	103,1	29,79	54,3
33,3	96,6	32,3	48,9
35,9	90,9	35,01	45,5
38,6	84,6	37,64	42,8
41,2	78,4	40,25	40
43,8	72,8	42,82	37,2
46,4	68,2	45,39	34,4
49,1	64,3	47,97	32,2