


230 V self-test

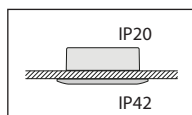
## CONTENTS

Page

1. Description .....	1
2. Installation .....	2
3. Operation .....	3
4. Connection .....	3
5. Maintenance .....	4
6. Compliance and approvals .....	5
7. Equipment and accessories .....	5

## 1. DESCRIPTION

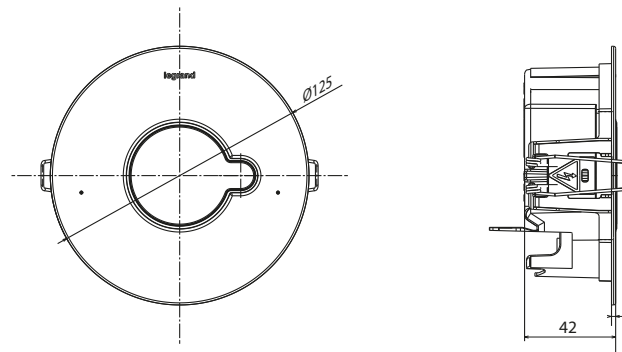
IP42 - IK07 emergency lighting LED luminaires  
Class II: 




Cat. No.	Flux/ standby power	Mode	M pwr cons. (W)	NM pwr cons. (W)	Batteries	No. of LEDs
6 601 42	100 lm/1 hr	M/NM	1.6	0.35	Ni-MH	4
6 601 44	200 lm/1 hr	M/NM	1.9	0.4	Ni-MH	6
6 601 45	350 lm/1 hr	M/NM	1.9	0.4	Ni-MH	8
6 601 46	100 lm/3 hrs	M/NM	1.9	0.4	Ni-MH	4
6 601 47	200 lm/2 hrs	M/NM	1.6	0.55	Ni-MH	6

## 1. DESCRIPTION (CONTINUED)

### • Dimensions



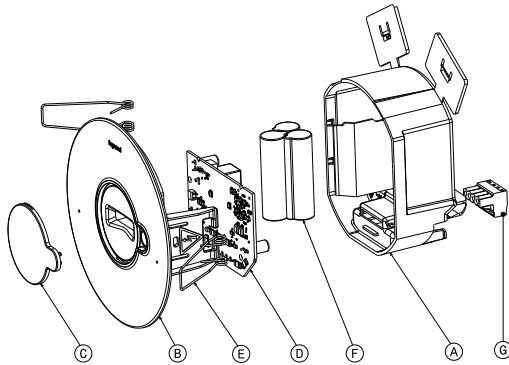
### • Technical characteristics

Power supply:  
230 V~ - 50/60 Hz  
Equipped with screw terminals 2.5 mm<sup>2</sup> max. (draw-out connector).  
Class II:   
Operating temperature: 0°C to +40°C  
Connection to remote control 0 039 00/01 for setting to rest state during intentional mains power breaks.  
Remote control input terminals protected against connection errors.

Conforming to standards: UNE EN 60598-2-22: 2014 + AMD: 2020  
Awarded ENEC EN 60598-2-22 quality mark and AENOR quality mark  
For flush mounting in ceiling.

## 1. DESCRIPTION (CONTINUED)

### • Materials

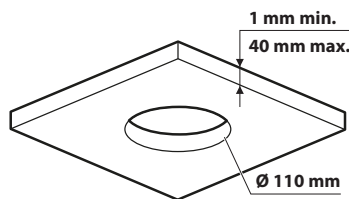


- (A) Base: white polypropylene, self-extinguishing 850° 30s
- (B) Reflector: white polycarbonate, self-extinguishing 850° 30 s
- (C) Diffuser: opal polycarbonate, self-extinguishing 850° 30 s
- (D) Circuit board
- (E) Spring
- (F) Battery pack
- (G) Power supply and remote control connector

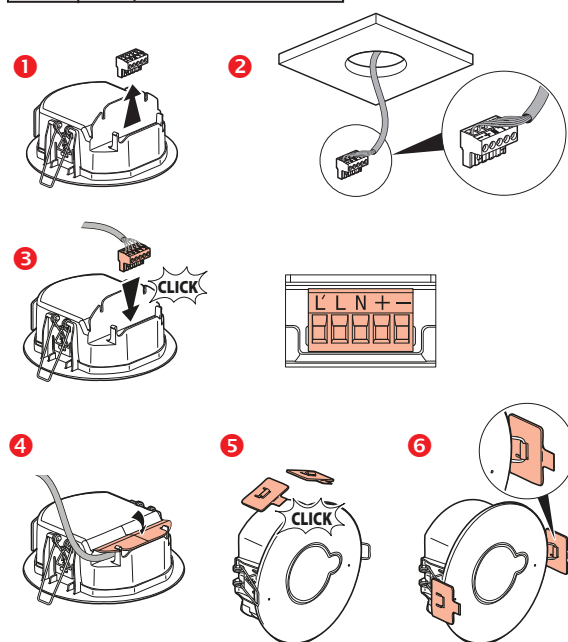
All plastic parts weighing more than 50 g are marked with their material type so that the materials can be recycled at the product's end of life.

## 2. INSTALLATION

### • Ceiling cut-out

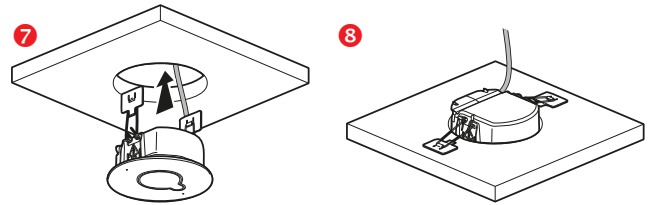


### • Wiring



## 2. INSTALLATION (CONTINUED)

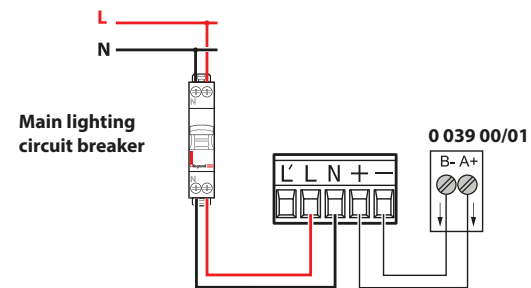
### • Wiring (continued)



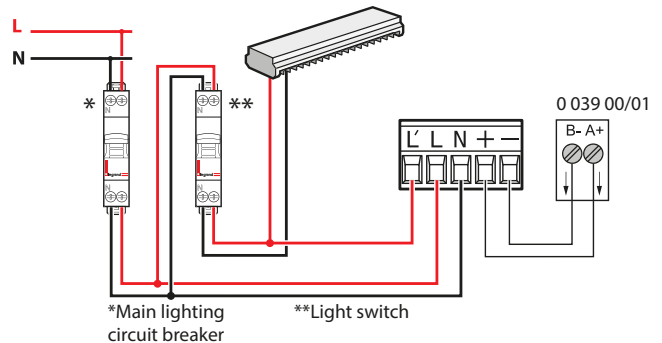
TELEC - Connection terminals: direction of connection with Legrand remote control Cat. No. 0 039 00/01 must be complied with.  
Terminal capacity: 2.5 mm<sup>2</sup> max.

### • Wiring up M-NM products

**NM**



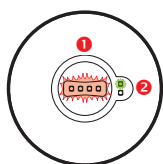
**M**



**Note:** Although self-contained emergency lighting units do not consume much power, you must check that the line dedicated to these lighting units can deliver the necessary current. You will find below the current the line needs to withstand for 100 installed lighting units according to the catalogue number (for simplicity, we have assumed just one type of lighting unit is installed per line):  
100 x 6 601 42/44/45/46/47 current = 1A

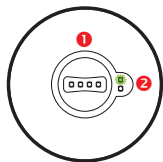
### 3. OPERATION

#### ■ 3.1 Switch-on/standby state



##### Maintained

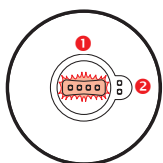
- ❶ The emergency LEDs come on
- ❷ Luminaire green status LED on



##### Non-maintained

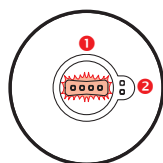
- ❶ The emergency LEDs are off
- ❷ Luminaire green status LED on

#### ■ 3.2 Mains supply break/emergency operation



##### Maintained

- ❶ The emergency LEDs come on at the rated flux
- ❷ The green luminaire status LED goes off



##### Non-maintained

- ❶ The emergency LEDs come on at the rated flux
- ❷ The green luminaire status LED goes off

#### ■ 3.3 Setting to rest state via the remote control Cat. No. 0 039 00/01

##### After the lighting is switched off intentionally:

Pressing the button sets the luminaire to rest state to prevent the battery discharging.

##### Lighting switched back on:

The luminaire automatically returns to standby in its operating mode.

#### ■ 3.4 Automatic testing of emergency lighting luminaires

This luminaire automatically checks its operating status, the light sources and battery.

##### Once a week:

It tests the operating status and light sources by switching to emergency mode for 15 seconds.

##### Once every three months:

It tests the battery by switching to emergency mode for the rated operating time.

#### ■ 3.5 Result of automatic checks

LEDs	Luminaire OK	Battery fault	Electronic/light source fault
Green	(steady or flashing)		
Yellow		(steady)	(rapid flashing)

The time of the tests is set at the time the unit is first switched on. The day of the test is chosen randomly in order to ensure that a minimum number of units is tested at the same time.

The time at which all the luminaires are tested can be changed to the required time by simultaneously pressing the and buttons on the remote control.

### 3. OPERATION (CONTINUED)

#### ■ 3.5.3 Stopping a test in progress

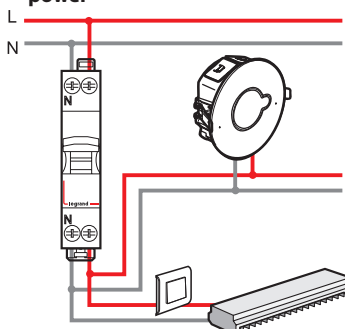
If a standby power test hinders operation, it can be stopped immediately. Press the OFF button on remote control unit Cat. No. 0 039 00/01. The test is stopped and postponed until the following day.

#### ■ 3.5.4 Specific cases

When the unit has been switched off for more than 3 days, the tests are no longer carried out. The test cycle will resume after the unit is switched back on and the batteries have been recharged. The tests planned for the day the unit is switched back on are automatically postponed for 24 hours.

### 4. CONNECTION

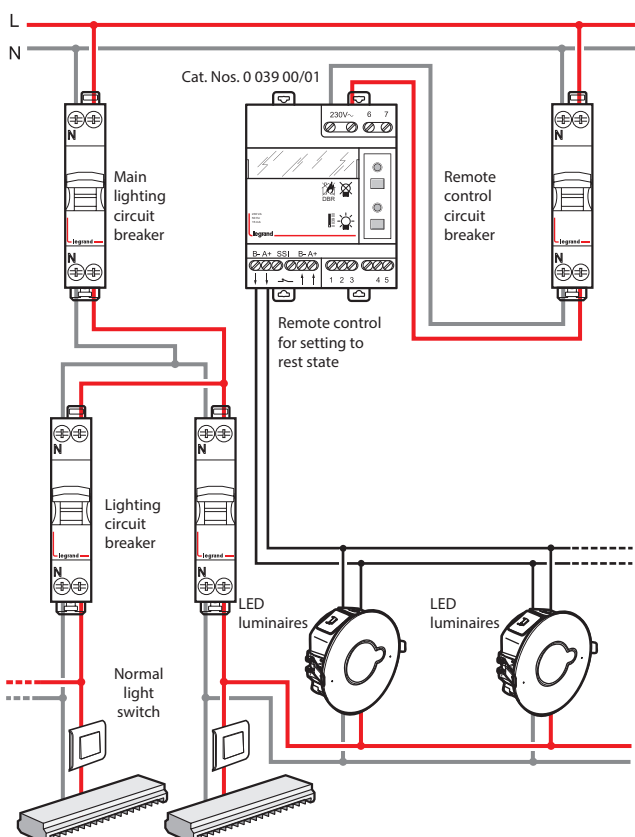
#### ■ 4.1 Connection of emergency lighting luminaires to the mains power



The branch can be joined in the electric cabinet, on the switch or in a junction box.

The rules concerning the power supply are the same for emergency lighting as for any other type of luminaire.

#### ■ 4.2 Connecting the remote control



##### Note:

In the event of interference on the remote control line or unwanted switching on of the self-contained emergency lighting units: add a 1 kohm resistor between the A+ and B- terminals on remote control 0 039 00/01 (this resistor is supplied with the remote control).

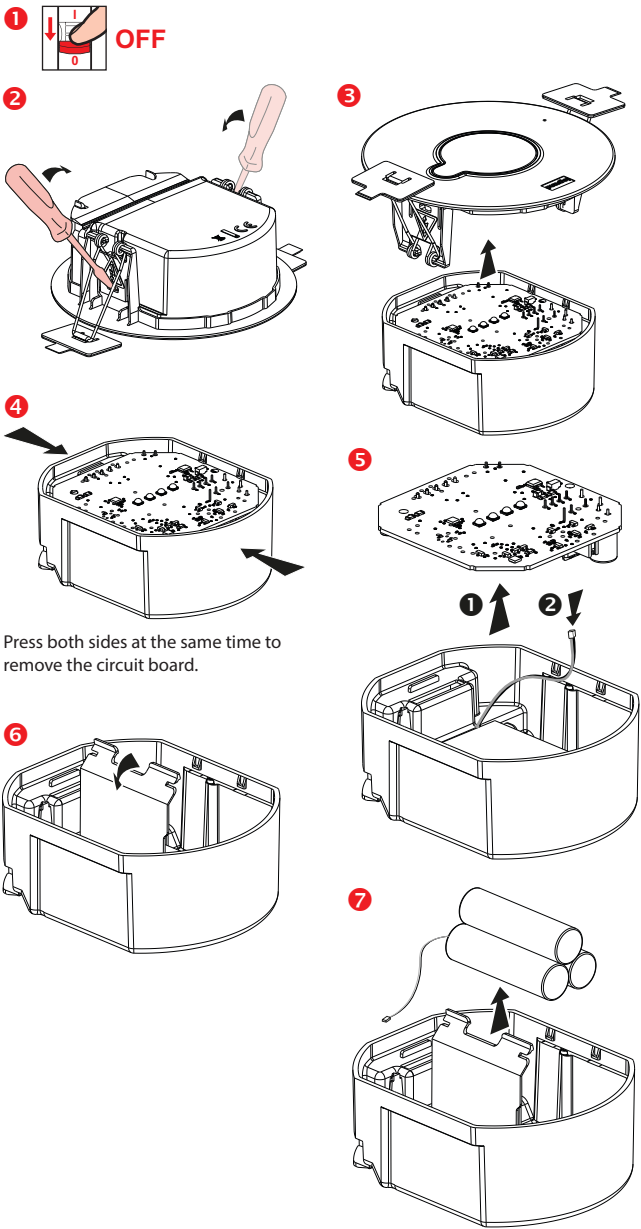
5. MAINTENANCE

■ 5.1 Spare parts

Luminaire Cat. No.	Battery	Spare battery Cat. No.
6 601 42	3.6 V 0.5 Ah Ni-MH	6 601 82
6 601 44/46	3.6 V 1.1 Ah Ni-MH	6 601 83
6 601 45/47	3.6 V 1.5 Ah Ni-MH	6 601 84

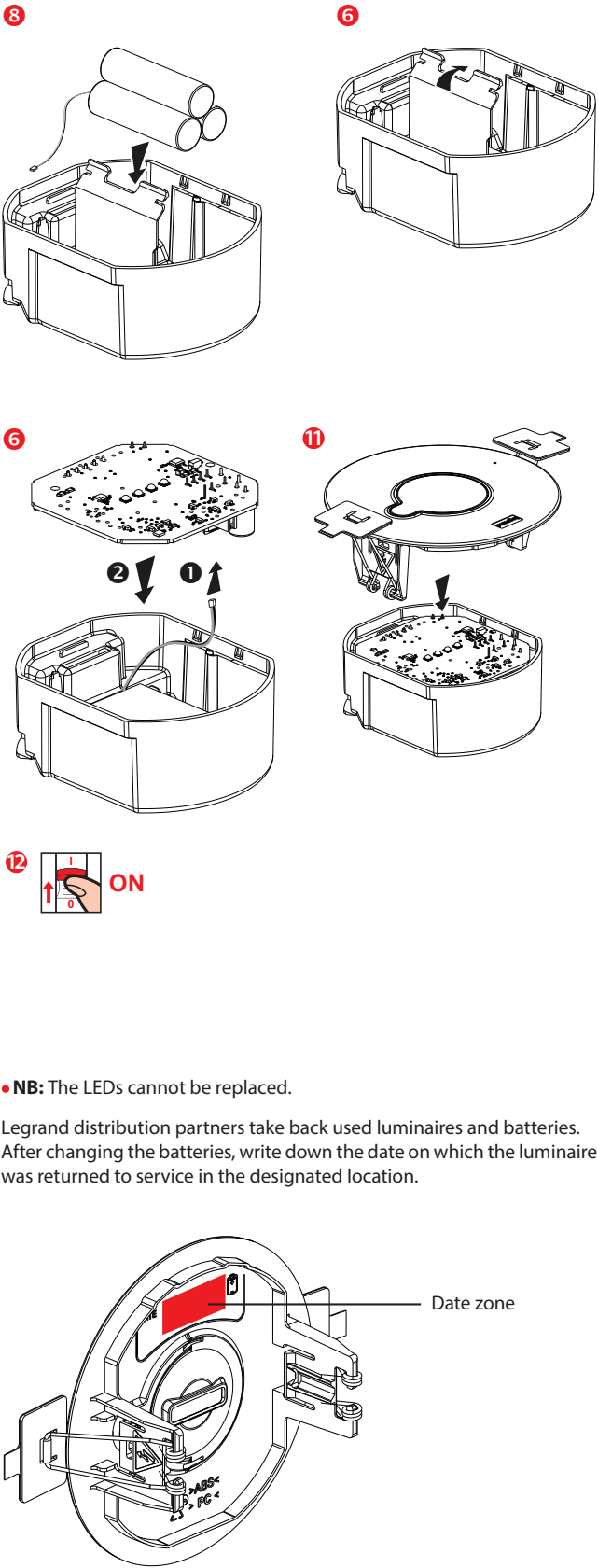
■ 5.2 Replacing the batteries

The batteries must be replaced when the self-contained luminaire can no longer stay on for its rated operating time.  
**Caution:** The product must be switched off before dismantling.



5. MAINTENANCE (CONTINUED)

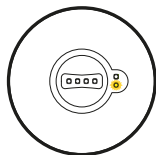
■ 5.2 Replacing the batteries (continued)



## 5. MAINTENANCE (CONTINUED)

### ■ 5.3 Troubleshooting

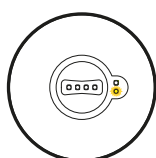
#### Steady yellow LED:



Check whether at least one of these faults is present:

- The battery is disconnected
- The battery has a voltage fault
- The battery has a standby power fault

#### Flashing yellow LED:



Check whether at least one of these faults is present:

- The charger and/or the electronics have a fault
- The light source has a fault

## 6. COMPLIANCE AND APPROVALS

EN 60598-2-22: 2014 + AMD: 2020: European standard "Luminaires: specific rules. Luminaires for emergency lighting"

EN 60598-1 2015 + A1 2018: European standard "Luminaires".

EN 50172: European standard "Emergency lighting systems"

EN 1838: European standard "Lighting applications – Emergency lighting"

Products certified with the AENOR N mark

#### Electromagnetic effects: EMC

##### Emission

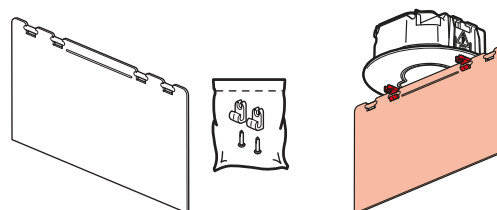
- EN 55015 (disturbance voltages)
- EN 61000-3-2 (harmonic measurements) class C
- EN 55022 (radiated interference) class B

##### Immunity

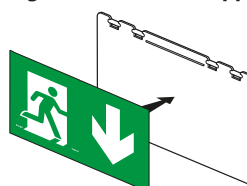
- EN 61000-4-2 (electrostatic discharges)
- EN 61000-4-3 (radiated fields)
- EN 61000-4-4 (fast transients/bursts)
- EN 61000-4-5 (lightning impulses)
- EN 61000-4-6 (radiated fields)
- EN 61000-4-8 (magnetic fields)
- EN 61000-4-11 (voltage dips and short interruptions)

## 7. EQUIPMENT AND ACCESSORIES

### Vertical sign plate Cat. No. 6 601 93



### Legend stickers (not supplied):



- Conforming to standard EN ISO 7010:

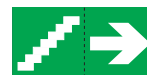


6 616 70

- Other available solutions:



6 616 71



6 616 72



6 616 80



6 616 82



6 616 83



6 616 84



6 616 85



6 616 88



6 616 89



6 616 90



6 616 91