

Connected self-testing self-contained emergency evacuation lighting unit

Cat. No: 0 625 25

www.legrandoc.com



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1. DESCRIPTION

IP 43 - IK 07 self-contained emergency evacuation lighting unit
 45 lm - 1 h
 Class II:
 Consumption: 0.5 W - 0.7 VA

• As-shipped product

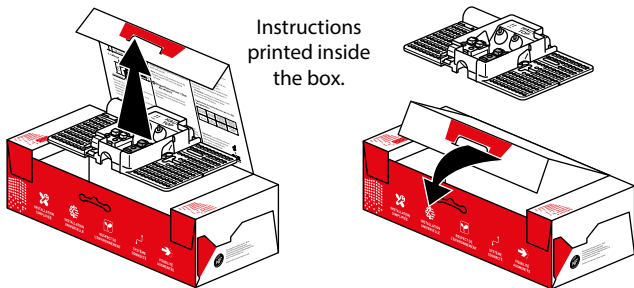
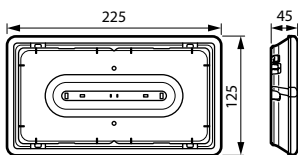


Plate delivered not connected. The box can be re-closed after the plate has been used.



Separable signalling label
 (supplied already attached to product)
 Cat. No. 0 612 10.

• Dimensions



Weight of product in packaging: 480 g.
 Volume: 1.9 dm³.

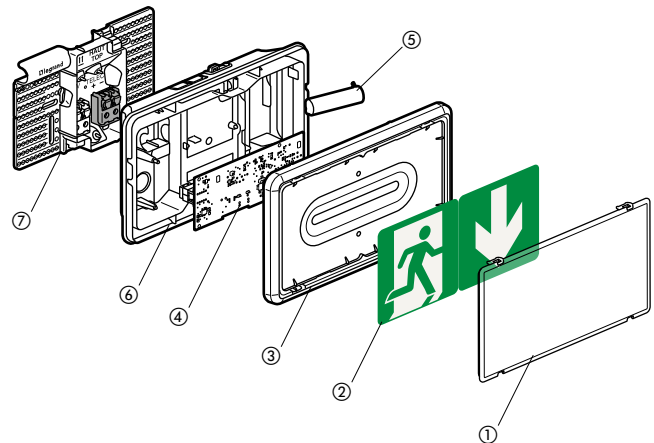
• Technical characteristics

Product for surface mounting on walls or ceilings.
 Self-contained emergency lighting unit with LEDs used for evacuation in public buildings and work premises.
 Rated flux at one hour: 45 lumens.
 Standby power: 1 hour (to ensure this duration, the standard requires a minimum standby power of 1 hour 30 minutes when new).
 Conforming to standards: NF C 71-800 and NF EN 60598-2-22
 NF C 71-820 + NF 413.
 Awarded the "NF AEAS performance SATI" and NF environment quality marks.

• Technical characteristics (continued)

Class II:
 Remote control for setting to rest mode during intentional mains power breaks.
 Remote control input terminals protected against connection errors.
 230 V \sim - 50/60 Hz power supply.
 Fitted with large-capacity automatic connection terminals (2 x 2.5 mm²).
 Usage temperature: -5°C to +35°C

• Materials



Class II plastic casing:

- ① Diffuser: clear polycarbonate, self-extinguishing 850°C 30 s.
- ② Label: Lexan, self-extinguishing 850°C 30 s.
- ③ Reflector: white polycarbonate, self-extinguishing 850°C 30 s.
- ④ Circuit board.
- ⑤ Battery.
- ⑥ Base: white polycarbonate, self-extinguishing 850°C 30 s.
- ⑦ Plate incorporating the weatherproofing membranes: polypropylene + SEBS, self-extinguishing 850°C 30 s.

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 the life.

• Calorific value

Thermal load of the plastic components of the casing: 10.4 MJ.

1. DESCRIPTION


• Signalling options

This product is supplied with a separable label (already attached to the product) Cat. No. 0 612 10 (one direction arrow and 1 human figure) suitable for most evacuation situations encountered in buildings.

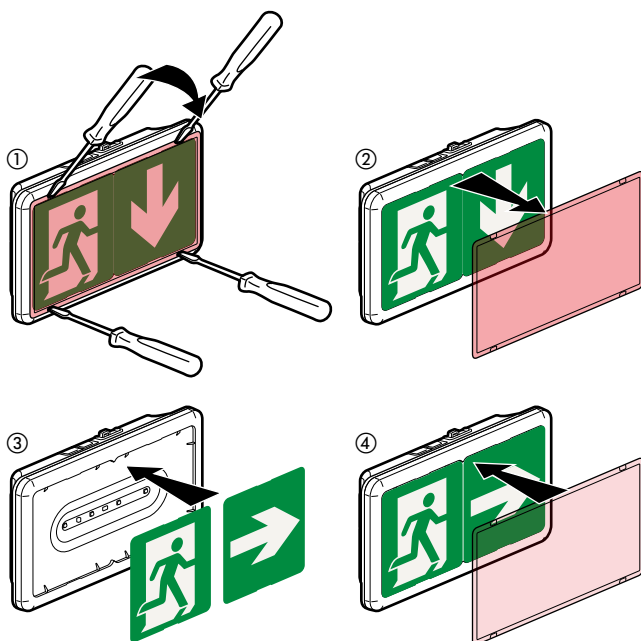


Examples of possible evacuation situations.



 Separable evacuation label, Cat. No. 0 612 11, illustrating a human figure and a 45° arrow.

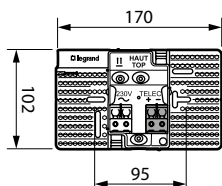
All these labels can be removed and recycled.



2. INSTALLATION

• New installation

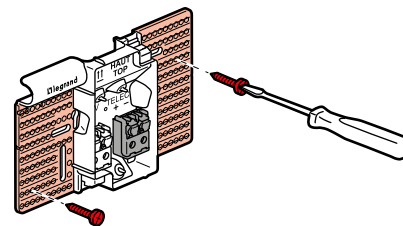
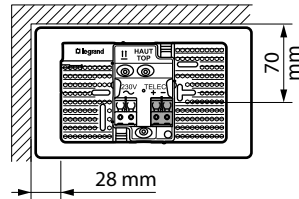
Plate dimensions.



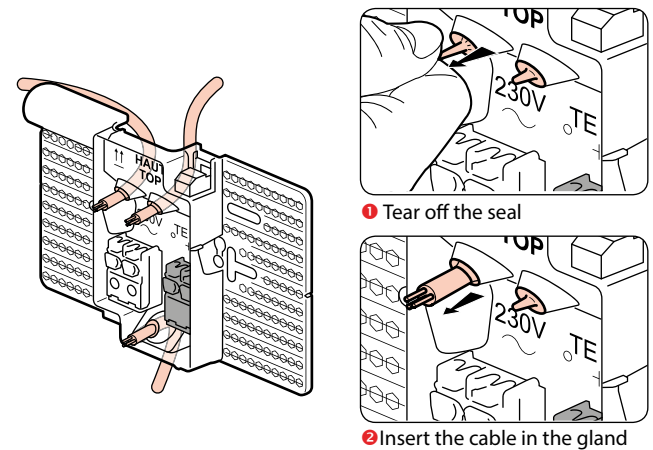
REMOTE CONTROL - Connection terminals: no direction of connection with Legrand remote controls.
Terminal capacity: 2 x 2.5 mm².

2. INSTALLATION (continued)

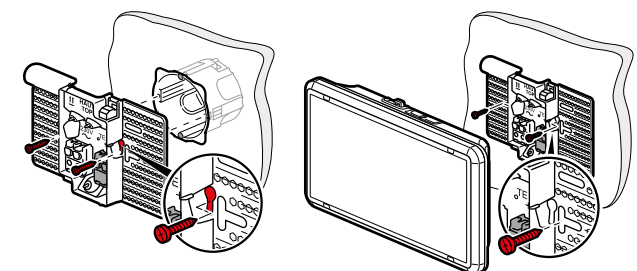
Fixing the plate



Can be attached over the whole marked area.

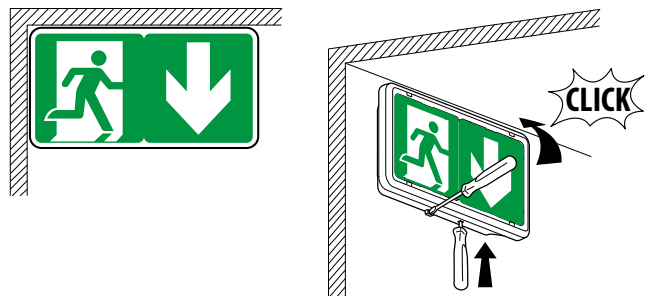


• Fixing the plate on a flush-mounting box



1 Positioning the 2 screws in the flush-mounting box. 2 Fixing in the wall with 2 additional screws.

• Installation level with the ceiling

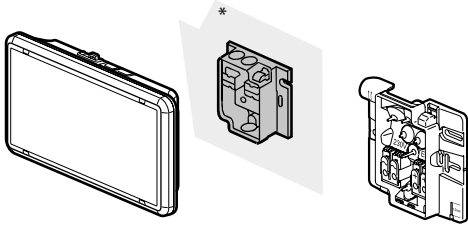


⚠ Can be unlocked by pushing a screwdriver right through to the back of the unit (minimum blade length 110 mm).

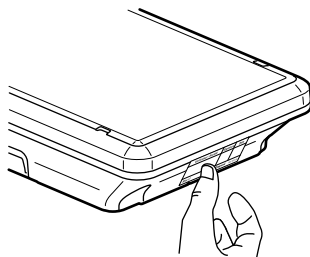
2. INSTALLATION (continued)

• Replacing an existing unit with a 0 625 25 unit while keeping the old plates:

* For plates from 1998 to 2010 you should turn the unit upside down and reposition the pictogram, in which case the unit protection rating becomes IK 05.

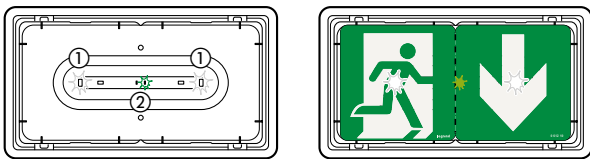


Attach a maintenance label Cat. No. 0 609 00 and write the commissioning date on it.



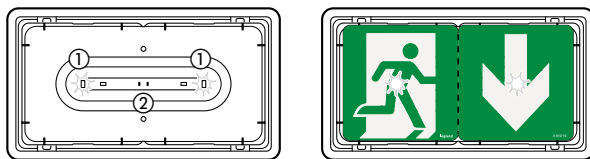
3. OPERATION

■ 3.1 Switch-on/standby state



The 2 white standby LEDs come on ①
The green unit status LED comes on (flashing while the batteries are charging: 24 hours max.) ②


■ 3.2 Mains supply break/emergency operation



The emergency LEDs come on (45 lm) ①
The green unit status LED goes off ②

■ 3.3 Setting to rest mode using remote controls 0 625 20/21 and 0 039 00/01

After the normal lighting is switched off intentionally:

Pressing the Off button  sets the unit to rest mode to prevent the battery discharging, in compliance with regulation EC14.

Normal lighting switched back on:

The unit automatically returns to standby.


3. OPERATION (continued)

■ 3.3 Setting to rest mode using remote controls 0 625 20/21 and 0 039 00/01 (continued)

Compatibility with commercially-available remote controls

 Remote control compatible only for setting to rest mode with Mains power absent in compliance with regulation EC 14.

Brand	Remote control reference
Luminox-EATON	EX 500
Luminox-EATON	TL 500
Luminox-EATON	TLI 500
Luminox-EATON	TLU
KAUFEL	BT 12V
SCHNEIDER	TBS SMART 100
SCHNEIDER	TBS SMART 250 LS
SCHNEIDER	TBS_50
SCHNEIDER	TBS_100
URA	140 010
URA	140 011
URA	140 012

 Ensure compatibility by respecting the remote control line polarity, except for the KAUFEL remote control.

■ 3.4 Automatic checking of the unit status (self-testing system)

This unit automatically checks its operating status.







Once a week:

Switches to emergency state and tests the light source for 15 s.



Once every three months:

Switches to emergency state and tests the light source and the standby battery power time.


3.4.1 Result of the automatic checks

LEDs	Luminaire OK	Battery fault	Other fault(s)
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 units are tested can be changed to the required time by simultaneously pressing the On  and Off  buttons on the remote control.

3.4.2 Stopping a test in progress

If a manual autonomy test hinders operation, it can be stopped immediately. Press the Off button  on the remote control Cat. No. 0 625 20/21 or 0 039 00/01. The test is stopped and postponed until the following day.

■ 3.5 Increased visibility

This new function is used to make the self-contained emergency lighting unit pictograms more visible in the event of evacuation due to a fire alarm with mains power present.

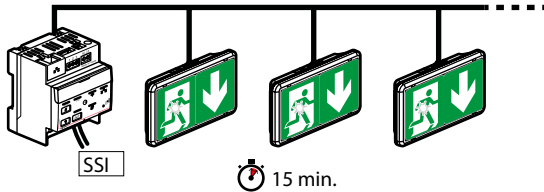
3. OPERATION (continued)

■ 3.5 Increased visibility (continued)

3.5.1 Standard increased visibility

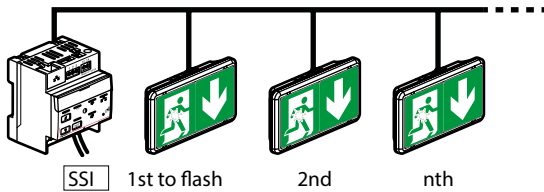
Increased visibility is a function that can be accessed without setting any parameters. The units are supplied with this function by default.

With mains power present, following opening of the SSI (Fire safety) contact on the remote controls 0 625 20/21 or 0 039 00 the evacuation units will flash for 15 minutes to make the pictograms more visible.



3.5.2 Escape sign lighting

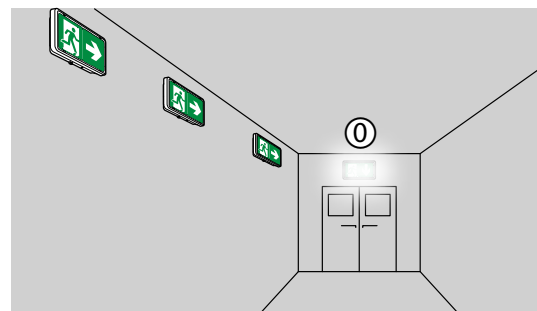
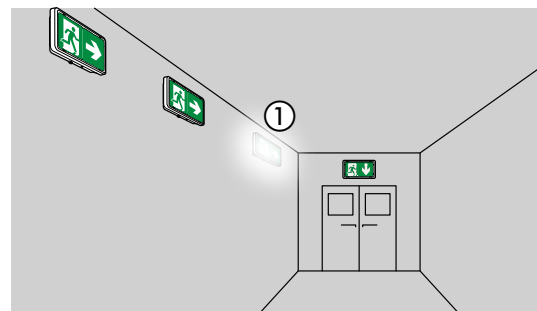
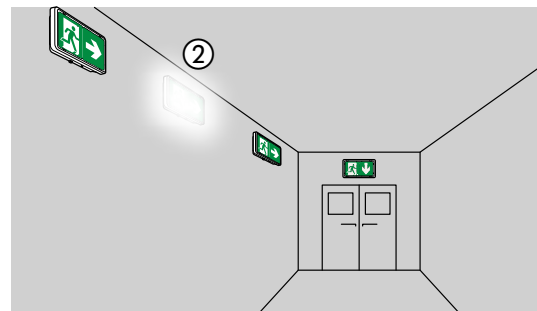
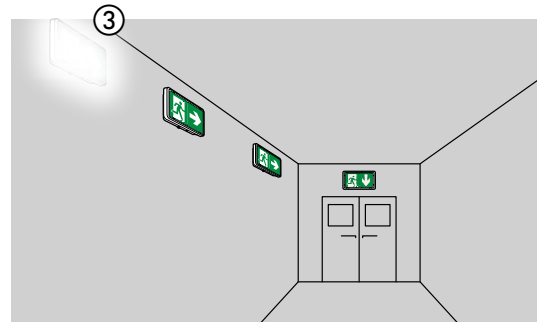
This function requires parameter setting.



This parameter setting must be done with configuration tool Cat. No. 0 882 40 and the CloseUp app. This action can assign a number that indicates the unit position in the queue.

3.5.2 Escape sign lighting (continued)

• Installation with escape sign lighting in a corridor

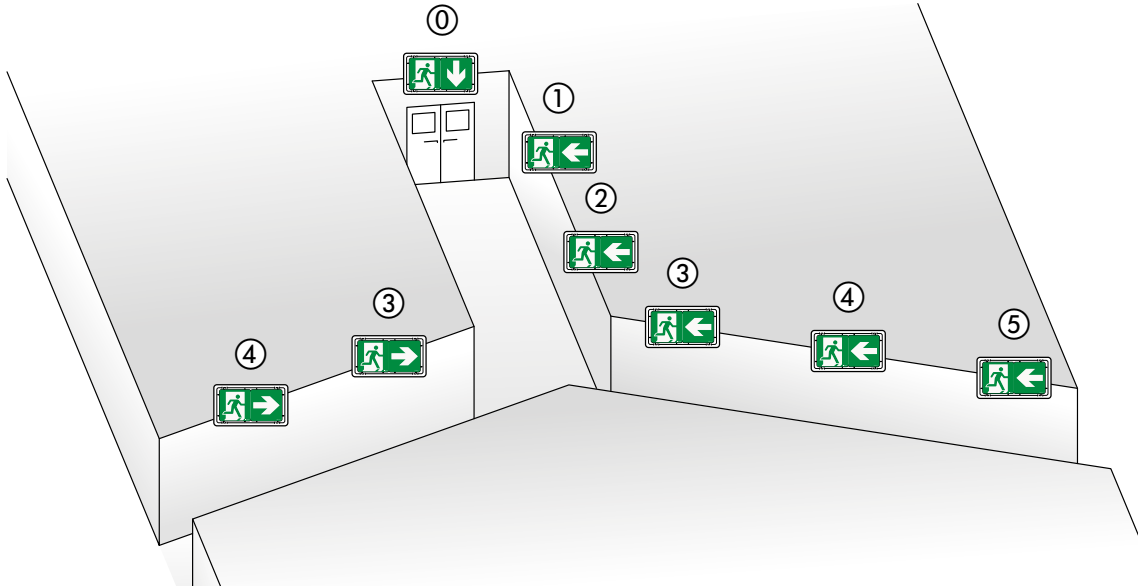


3. OPERATION (continued)

■ **3.5 Increased visibility** (continued)

3.5.2 Escape sign lighting

• **Installation with escape sign lighting in several corridors**



■ **3.6 Interrogating the unit**

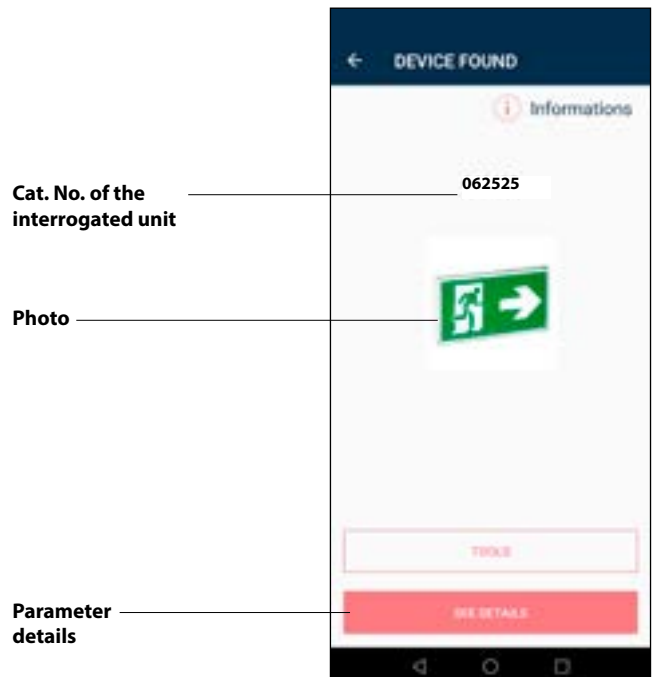
Infrared configuration tool Cat. No. 0 882 40 with the Close Up app is used to view and modify the emergency lighting unit parameters.



⚠ The screenshots change as and when the Close Up app is updated.

3.6.1 Viewing information


Step 1: After interrogating the desired unit, the following information is accessible:



3. OPERATION (continued)

■ 3.6 Interrogating the unit (continued)

3.6.1 Viewing information (continued)

Step 2: Click  to access the technical documentation

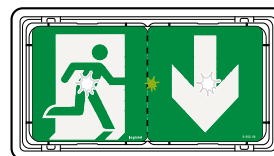


Link back to www.legrandoc.com to view all the product documentation.



Step 3: Click "TOOLS" to start a manual functional test and a manual autonomy test.

The manual functional and manual autonomy tests will only start running if the unit is sufficiently charged. These tests are immediate, they are not postponed.



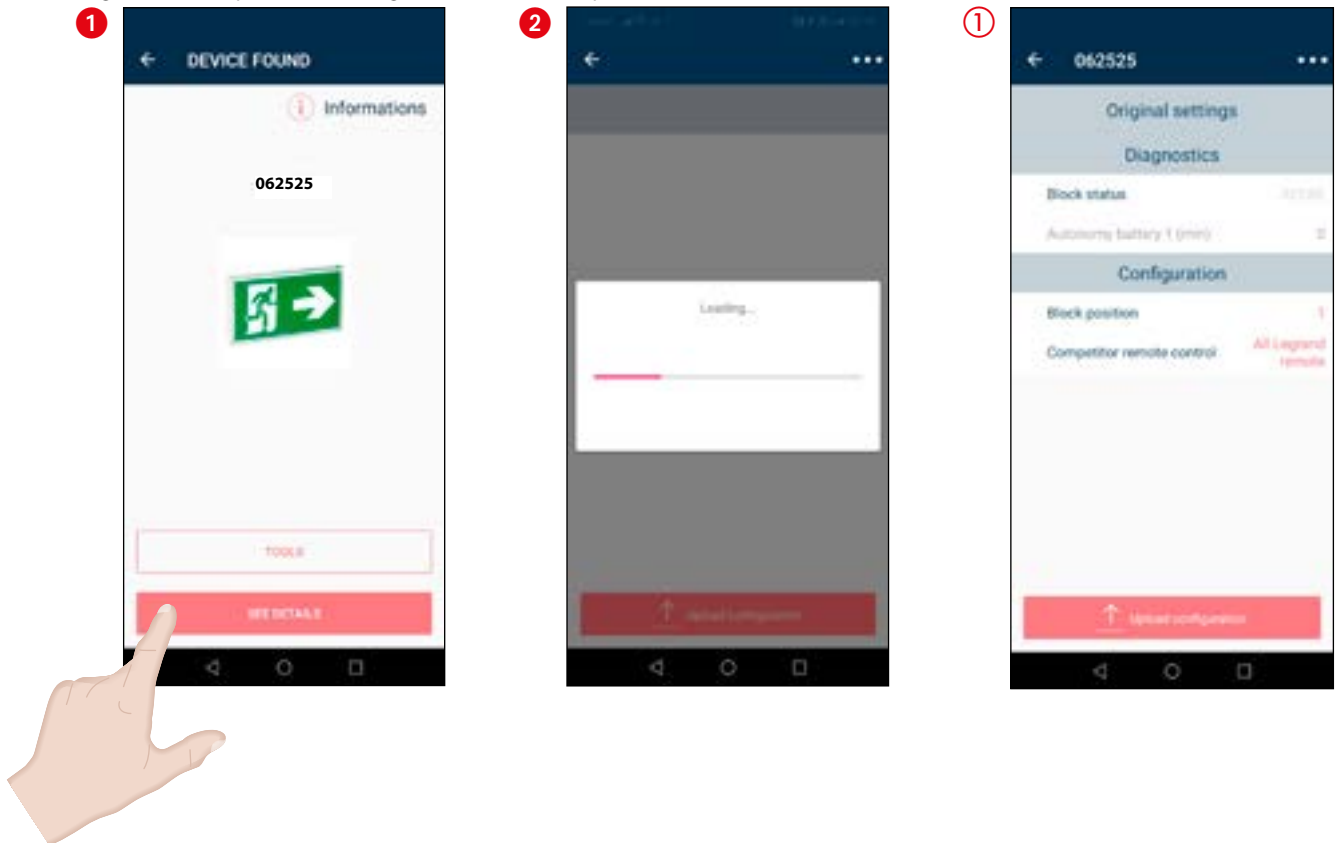
After clicking on manual functional test or manual autonomy test, the result can be viewed on the unit:
- For the manual functional test the unit comes on in emergency mode for 15 seconds
- For the manual autonomy test, the unit stays on until its battery has fully discharged

3. OPERATION (continued)

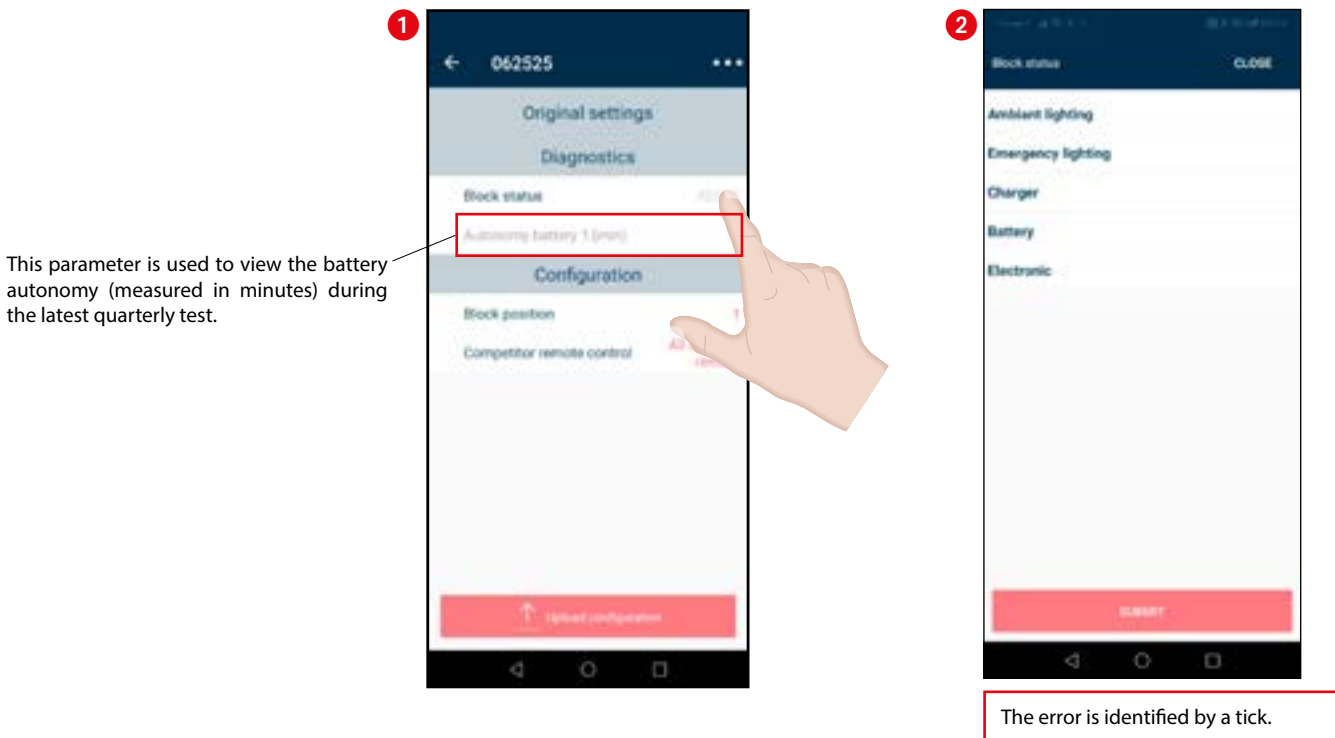
■ 3.6 Interrogating the unit (continued)

3.6.1 Viewing information (continued)

Step 4: Click "SEE DETAILS" to access the full list of parameters and additional information. During this step you must hold the configuration tool facing the interrogated unit, the parameter loading is then visible on the phone screen.



Step 5: In the "Diagnostics" part, right-click "Block status" to access the error type.



This parameter is used to view the battery autonomy (measured in minutes) during the latest quarterly test.

The error is identified by a tick.

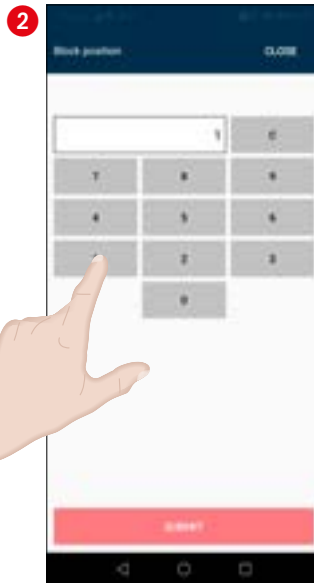
3. OPERATION (continued)

■ 3.6 Interrogating the unit (continued)

3.6.2 Assigning the sequence number in the queue



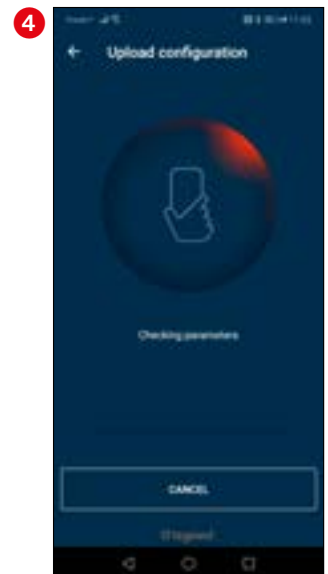
In the "Configuration" part, click to the right of "Block position" on the number



Enter the unit number in the queue.



Aim the configuration tool at the unit to confirm this action.

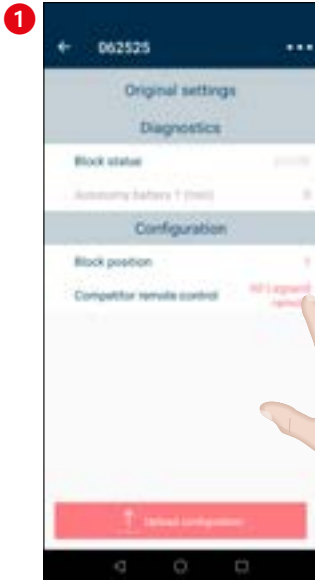


3. OPERATION (continued)

■ **3.6 Interrogating the unit** (continued)

3.6.3 Choosing the remote control

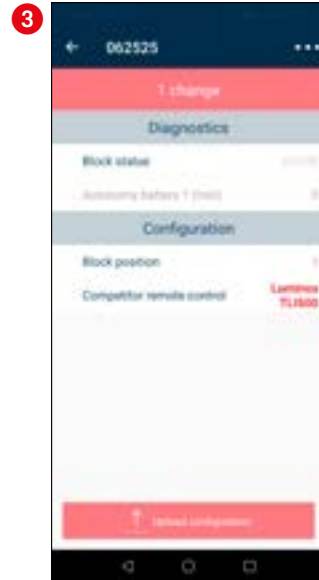
The Legrand remote control is selected by default, but this can be changed by following the steps below.



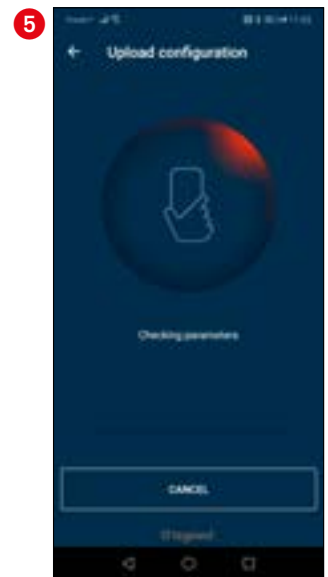
In the "Configuration" part, click to the right of "Legrand" to access the list of compatible remote controls (see 3.3).



Click on the remote control you wish to associate with the unit.



Aim the configuration tool at the unit to confirm this action.

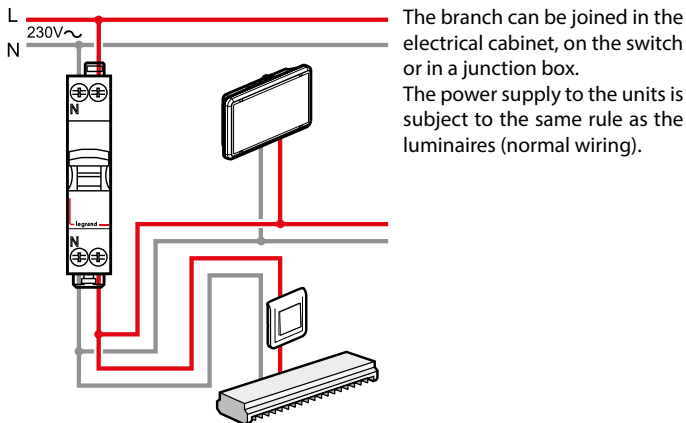


4. CONNECTION

■ 4.1 Connecting mains power to the self-contained units

Art. EC 12 section 3 of the safety regulations.

The branch supplying a unit must be joined downstream of the protection device and upstream of the normal lighting control device for the room or exit route in which the unit is installed.



The branch can be joined in the electrical cabinet, on the switch or in a junction box. The power supply to the units is subject to the same rule as the luminaires (normal wiring).

Standard NF C 15-100 permits, in article 521.6.1, the mains supply connection and the remote control to be in the same cable or conduit.

Tap-off from one unit to another is permitted as long as the protection device for the line on which they are connected is 16 A or more.

The remote control polarity may not be correct on this self-contained emergency lighting unit if a Legrand remote control Cat. No. 0 625 20 or 0 625 21 or previous generation Cat. No. 0 039 00 or 0 039 01 is used. If another remote control is used, the correct polarity must be followed when wiring, and the switch-on or switch-off command must be maintained for at least 2 seconds.

Remote controls Cat. Nos. 0 625 20/21 have 3 operating modes:

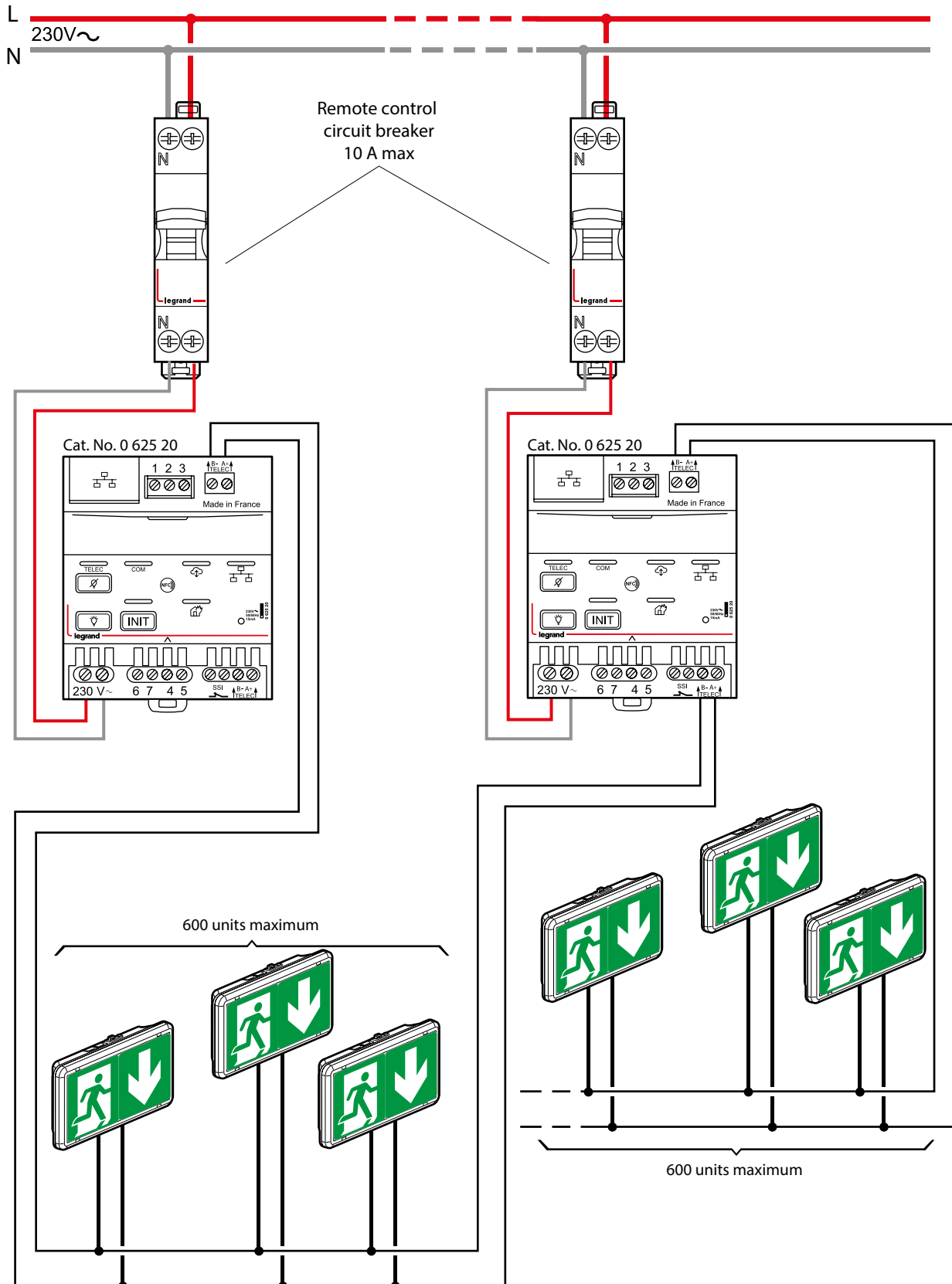
- **Standard mode:** up to 600 products
- **Supervised mode:** used for surveillance of installations with up to 63 products max.
- **Connected supervised mode:** supervised mode with remote management using the legrandERPconnecté app.

i For more information, see technical data sheet for connected remote control Cat. No. 0 625 20.

4. CONNECTION (continued)

4.2 Remote control for setting to rest mode

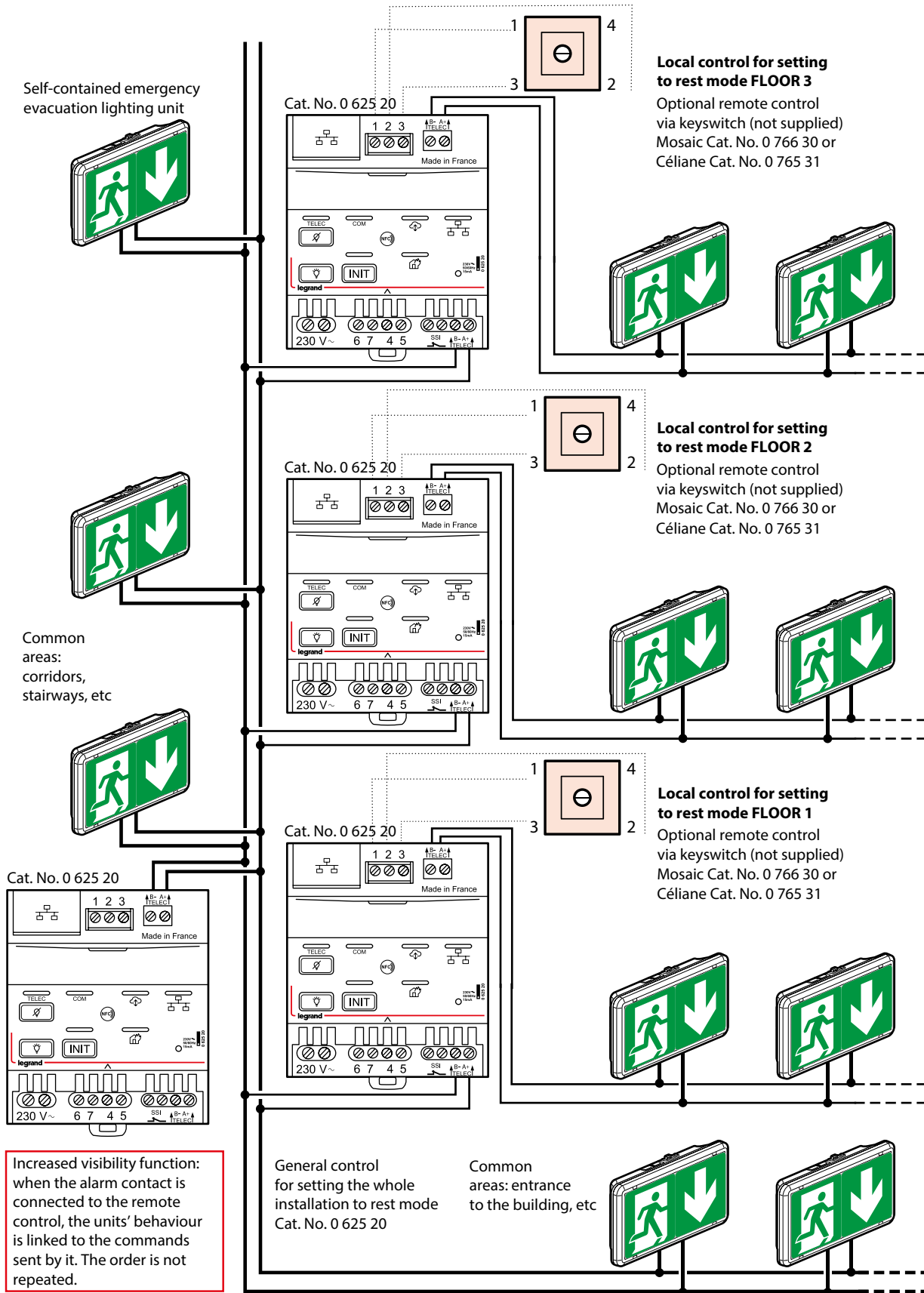
Installation (in standard mode) comprising more than 600 self-contained emergency lighting units:



4. CONNECTION (continued)

■ 4.2 Remote control for setting to rest mode (continued)

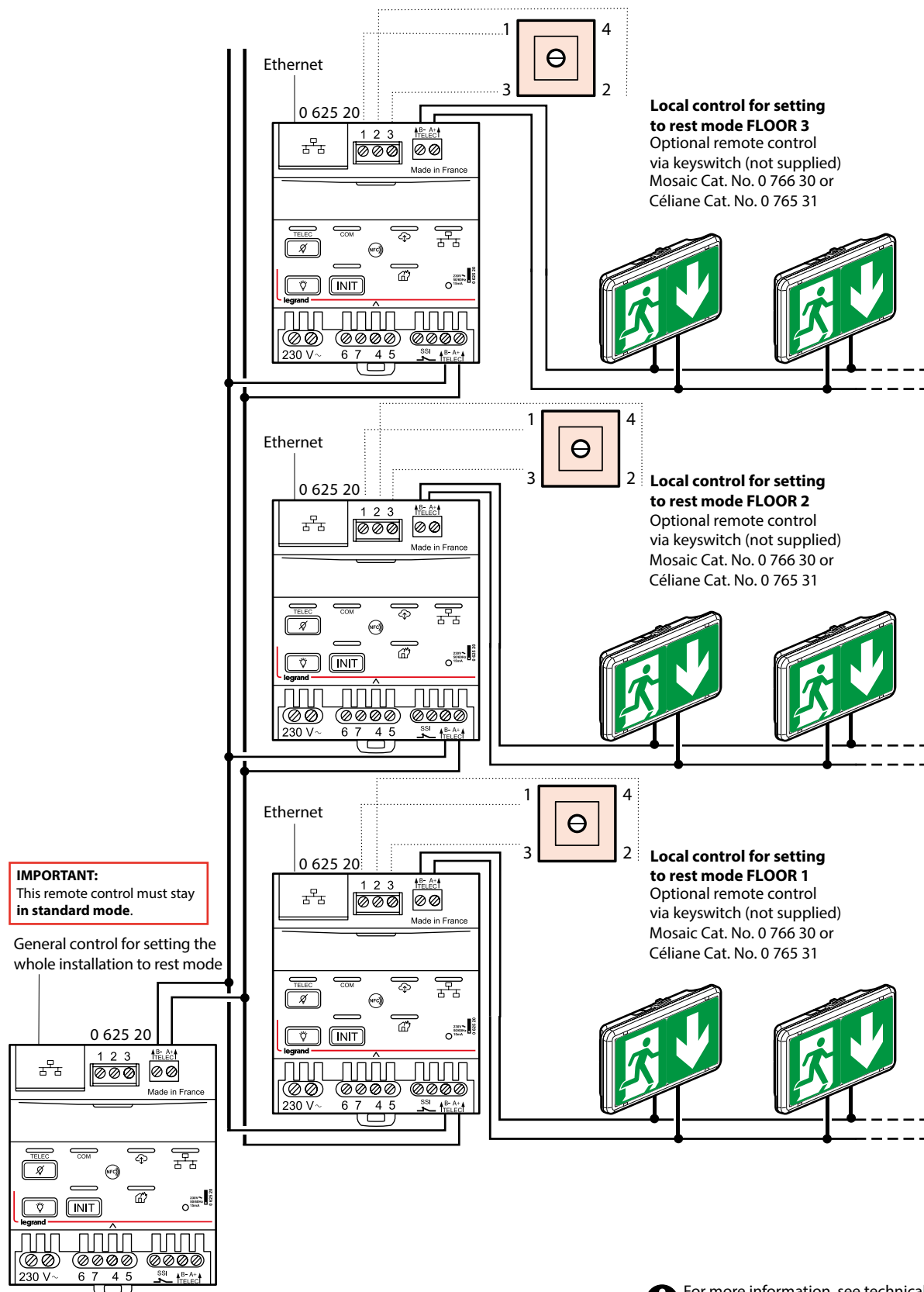
Setting an installation (in standard mode) comprising several operating zones to rest mode, zone by zone:



4. CONNECTION (continued)

■ 4.2 Remote control for setting to rest mode (continued)

Setting an installation (in supervised mode and in connected supervised mode) of more than 63 products to rest mode:

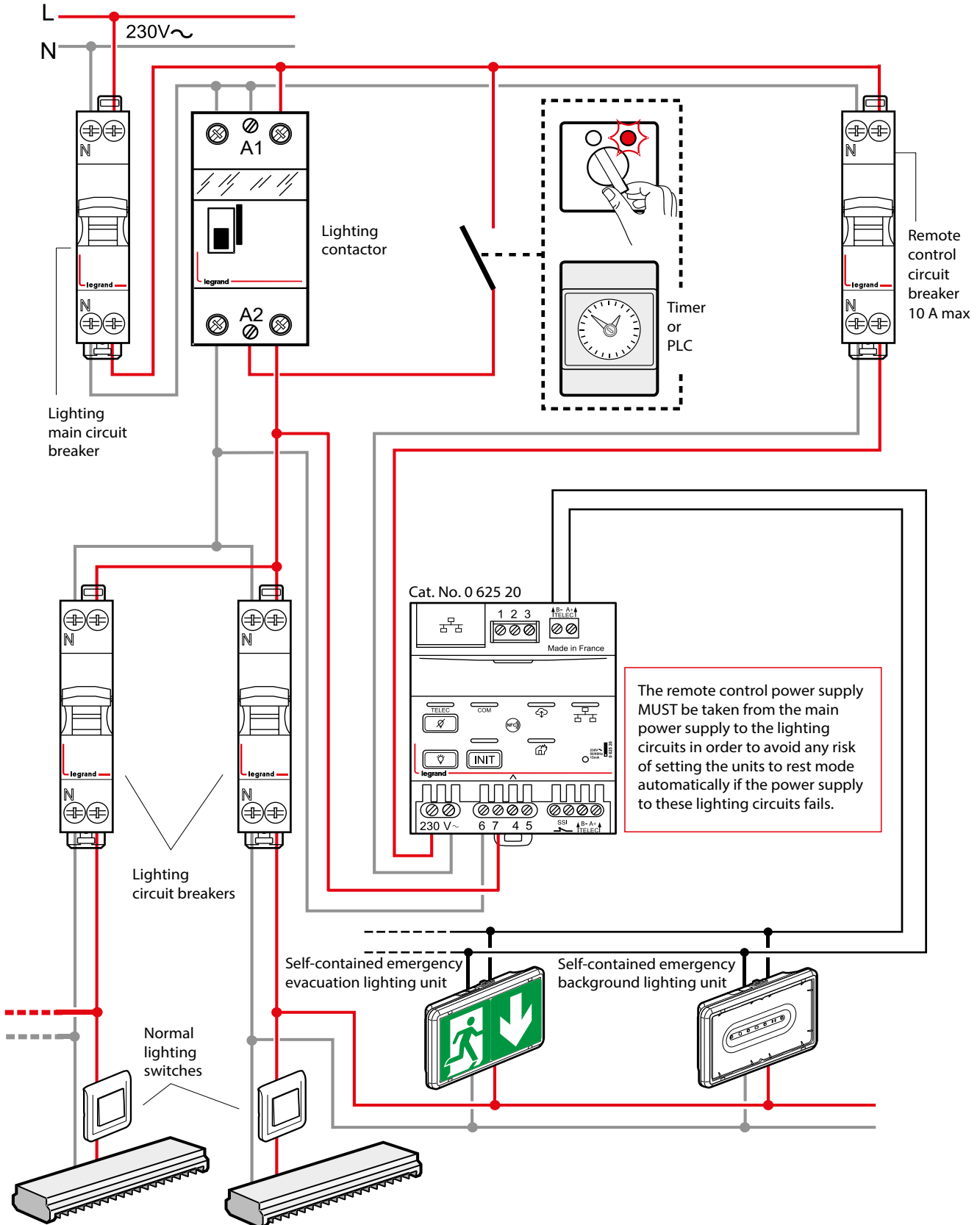


i For more information, see technical data sheet for connected remote control Cat. No. 0 625 20.

4. CONNECTION (continued)

■ 4.2 Remote control for setting to rest mode (continued)

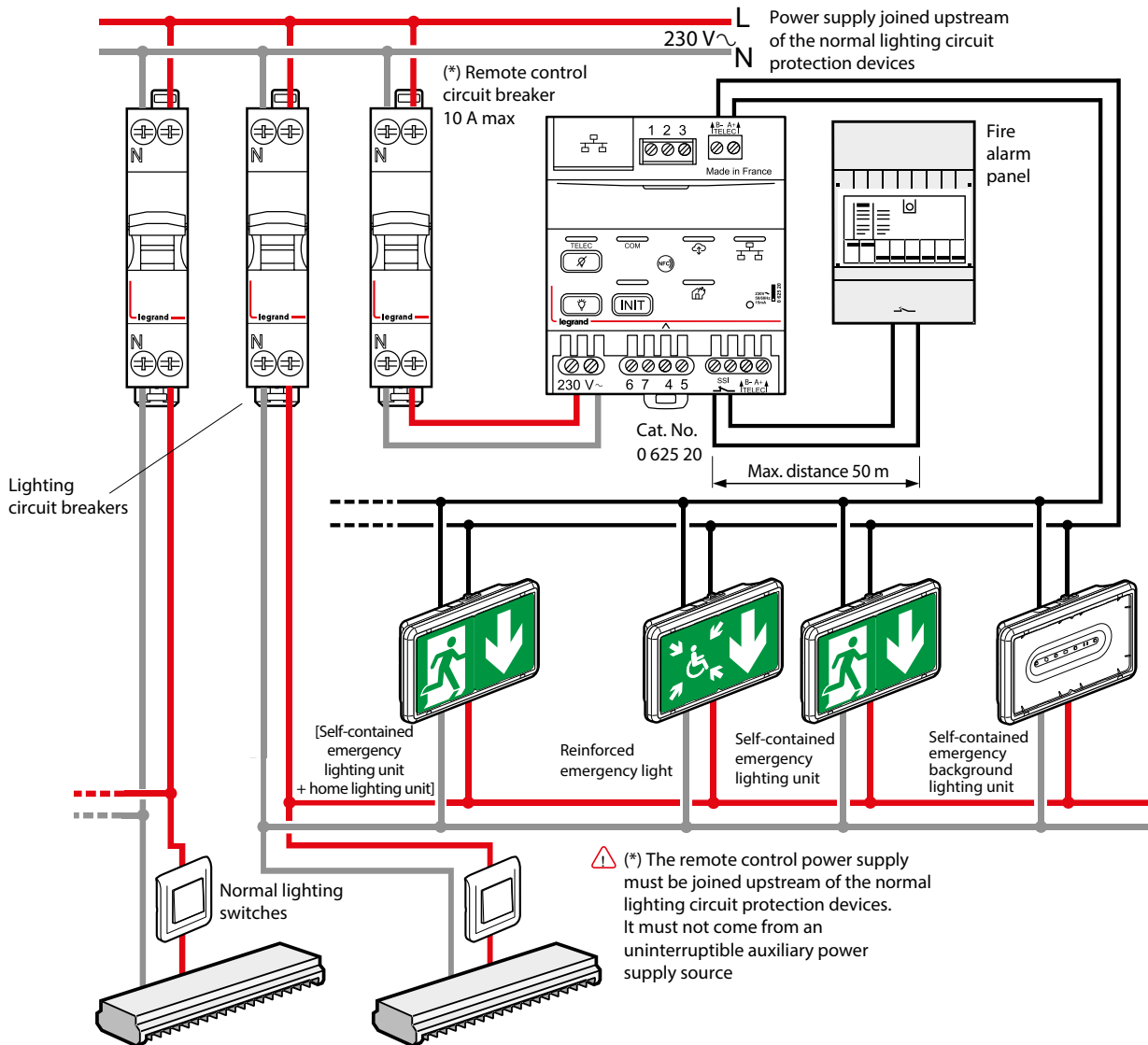
Setting units to rest mode automatically (standard mode) after the lighting is switched off intentionally:



4. CONNECTION (continued)

■ 4.2 Remote control for setting to rest mode (continued)

Operation with [self-contained emergency lighting + home lighting units] and/or reinforced emergency lights and Legrand self-contained emergency lighting units in buildings open to the public that have sleeping accommodation and/or safe waiting areas and operation of self-contained emergency lighting units in increased visibility:



5. MAINTENANCE

■ 5.1 Routine maintenance

• **Safety regulations covering public buildings** (article EL 18 and EC 13) Routine maintenance of self-contained emergency lighting units is mandatory in public buildings in France.

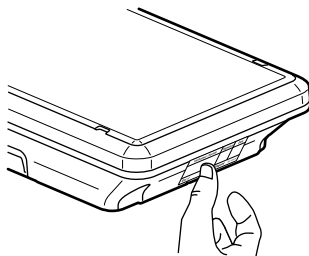
It can be carried out in accordance with the provisions of standard NF C 71-830.

The user must ensure that the lighting units are regularly checked and serviced.

The user must ensure that the annual maintenance operations are carried out by a qualified person.

After every annual maintenance operation, the qualified person must attach a new maintenance label and fill it in.

Checked by/Company	Signature	Date
Unit no.	legrand	Cat. No. 0 609 00



This maintenance label (Cat. No. 0 609 00) must be attached to each lighting unit in a position where it can be seen, and marked with the date on which the unit was commissioned.

• Operation (article EC 14)

The emergency lighting must be set to standby state during operating periods.

The emergency lighting must be set to rest mode or off state when the normal lighting installation is switched off intentionally.

The use of a hard-wired remote control Cat. No. 0 625 20/21 or 0 039 00/01 and a keyswitch in accordance with the corresponding wiring diagram enables the units to be set to rest mode at the same time as the normal lighting is switched off when the premises are not in use.

The user must regularly check the following:

Once a month:

- That the unit switches to operating position if the normal power supply fails, and that all the lights come on (operation must be strictly limited to the time required to carry out the visual check). These checks can be carried out by seeing that the green self-test indicator is on on all the units in the installation.

- The effectiveness of the remote command to switch to rest position and the automatic return to standby position when the normal power supply is re-established.

Once every six months:

- That there is at least one hour's standby power. These checks can be carried out by seeing that the green self-test indicator is on on all the units in the installation.

■ 5.1 Routine maintenance (continued)

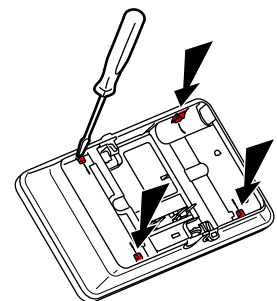
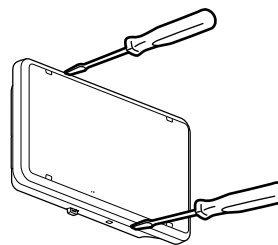
By using the legrand ERPconnecté web app you can be sure that your installations are compliant and simplify their maintenance.



Opens the legrand ERPconnecté app on a smartphone, PC or tablet: <https://erpconnecte.legrand.fr>
Compatible with Firefox, Chrome and Edge.

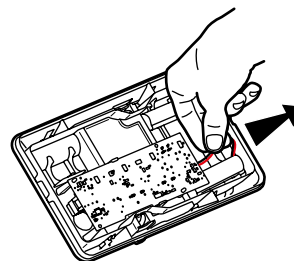
■ 5.2 Replacing the batteries

Ni-MH battery Type 1.2 V - 1.1 Ah AA Cat. No. 0 610 80

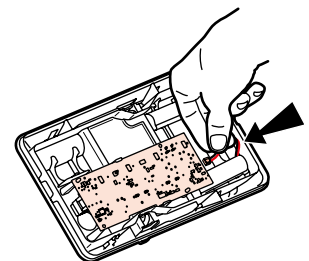


The batteries must be replaced when the self-contained unit can no longer stay on for its rated operating time.

Important: The product must be in rest mode before dismantling.



Legrand distribution partners take back used lighting units and batteries.



When the batteries have been changed, replace the maintenance label, marking on it the date on which the unit was returned to service.

6. COMPLIANCE AND APPROVALS

NF C 71 800: French standard "Performance of self-contained emergency evacuation lighting units in public buildings and work premises covered by regulations".

Compliance with this standard is mandatory when installing self-contained emergency evacuation lighting units in France.

NF EN 62 034: Automatic test systems for battery-powered emergency lighting.

NF C 71 820: French standard "Automatic test system for emergency lighting equipment".

NF EN 60 598-2-22: European standard "Luminaires: specific rules. Luminaires for emergency lighting".

NF EN 60 598-1: European standard "Luminaires".

UTE C 71 806: Rules applicable to the use of NiMH batteries in self-contained emergency lighting units

The "NF AEAS performance SATI" mark certifies compliance with these standards.

NF 413 NF ENVIRONMENT Emergency lighting units.

The "NF Environment" mark certifies compliance with this standard.

NF EN 50172: European standard "Emergency lighting systems".

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

Directives

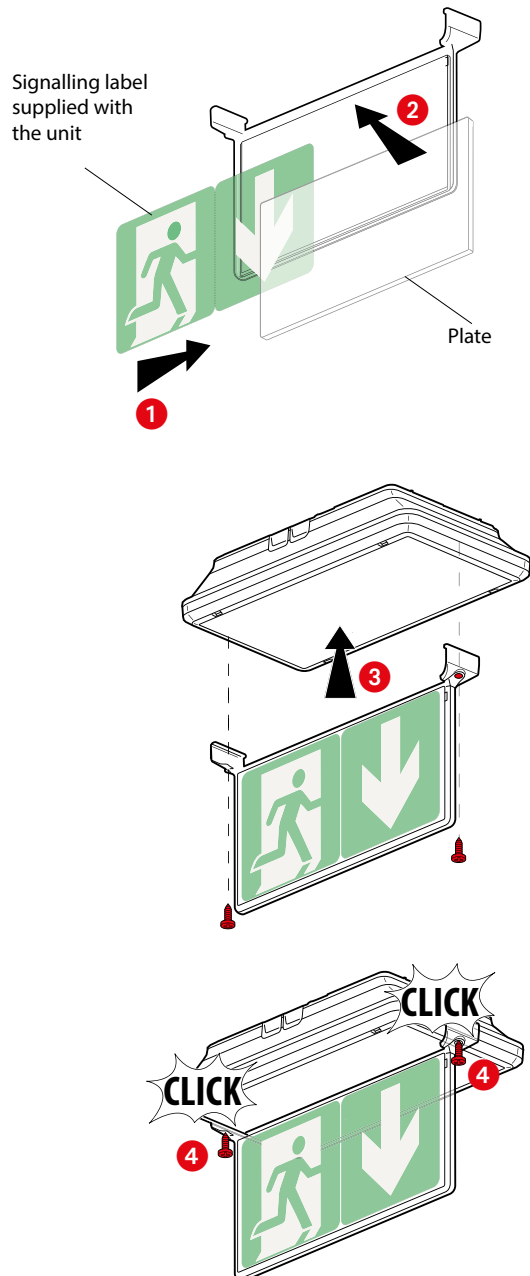
- LV directive 2014/35/EU of 26/02/2014 and 2011/65/EU of 08/06/2011 amended by 2015/863 of 31/03/2015 (ROHS 2)

- EMC directive 2014/30/EU of 26/02/2014

7. EQUIPMENT AND ACCESSORIES

7.1 Plate

IP43 sign plate Cat. No. 0 626 75 supplied with an opacifying label to be used for one-way display.

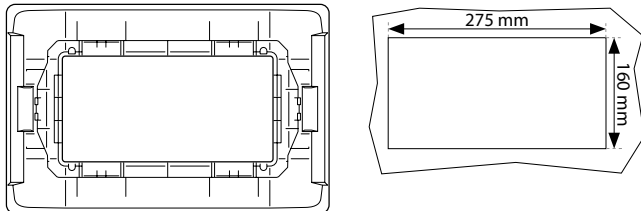


7. EQUIPMENT AND ACCESSORIES (continued)

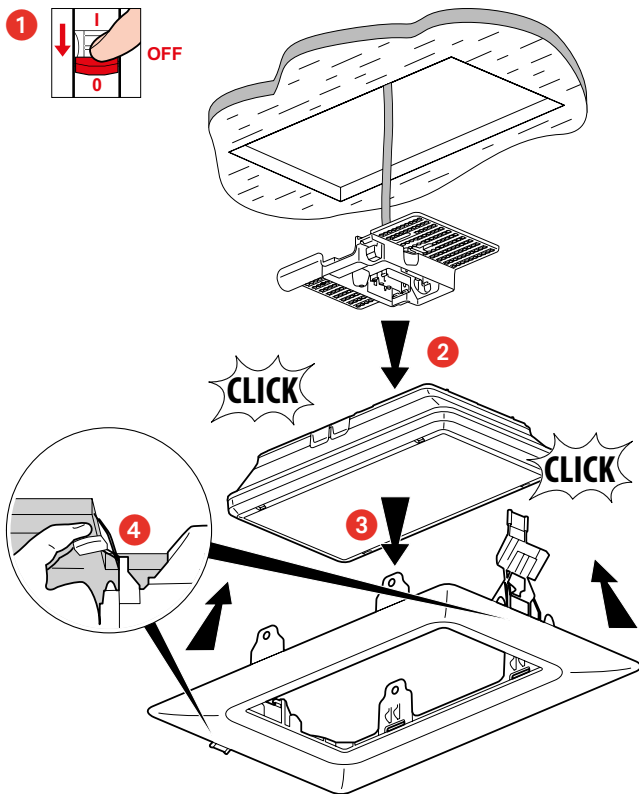
■ 7.2 Flush-mounting box Cat. No. 0 626 94

For fixing units in false ceilings:

- Fix using claws on solid load-bearing support, plaster, plasterboard, wood, etc.
- Fix using threaded rod, hooks or cables for flush mounting in suspended ceilings.
- Enables maintenance operations in flush-mounted position.
- Fix in wall or ceiling (plasterboard) or wood.



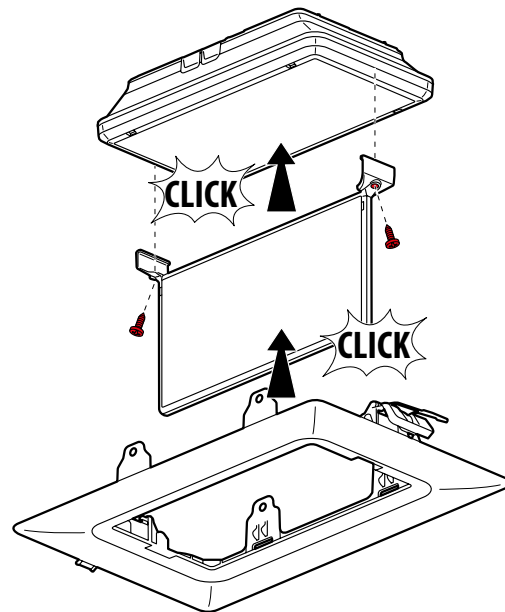
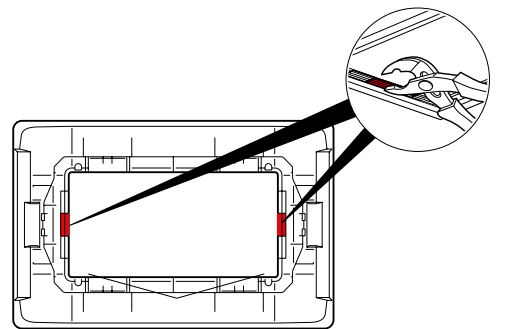
• New installation



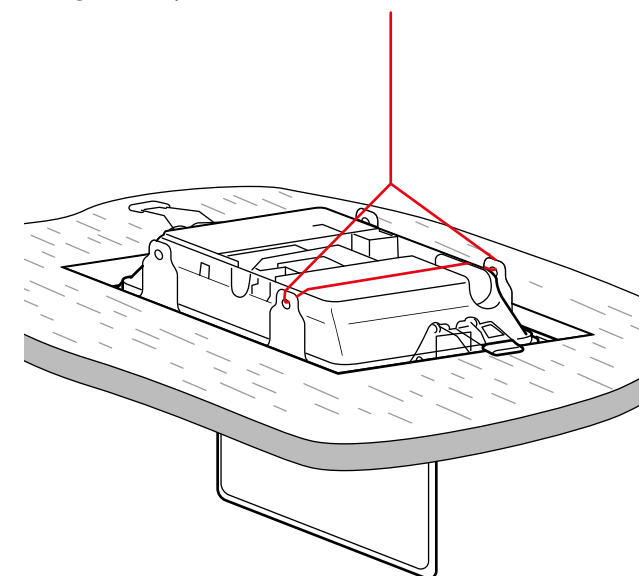
- 1 Switch the installation off
- 2 Wire up the plate and fix it on the self-contained emergency lighting unit
- 3 Clip the self-contained emergency lighting unit into the box
- 4 Mount the box in the ceiling, holding the springs with both hands

■ 7.2 Flush-mounting box Cat. No. 0 626 94 (continued)

• Installation with pictogram holder

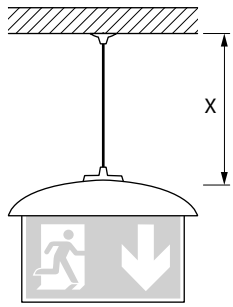


• Fitting the safety line



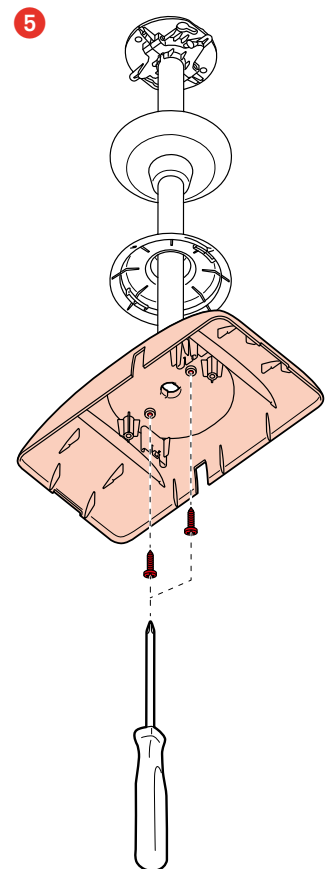
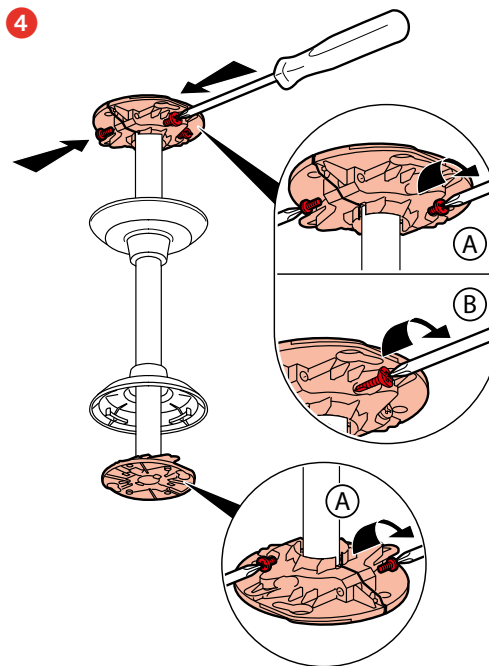
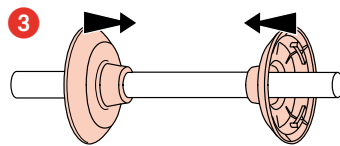
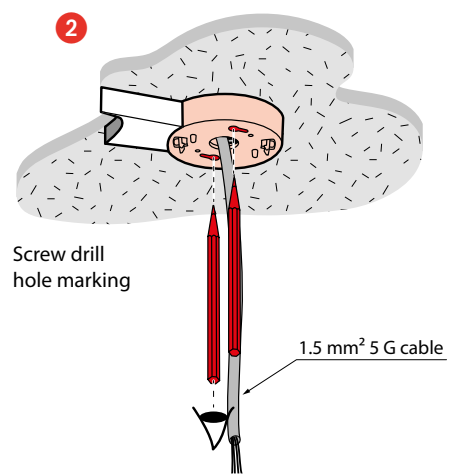
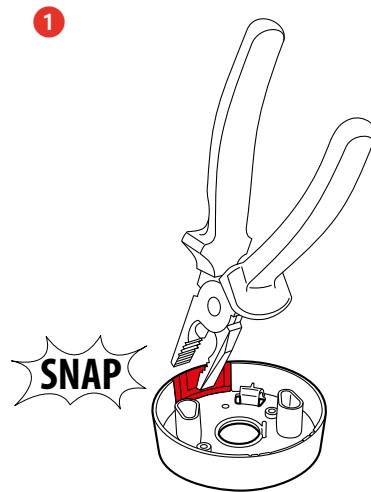
7. EQUIPMENT AND ACCESSORIES (continued)

■ 7.3 Suspension kit Cat. No. 0 626 77



$0.20 < X < 2.5 \text{ m}$

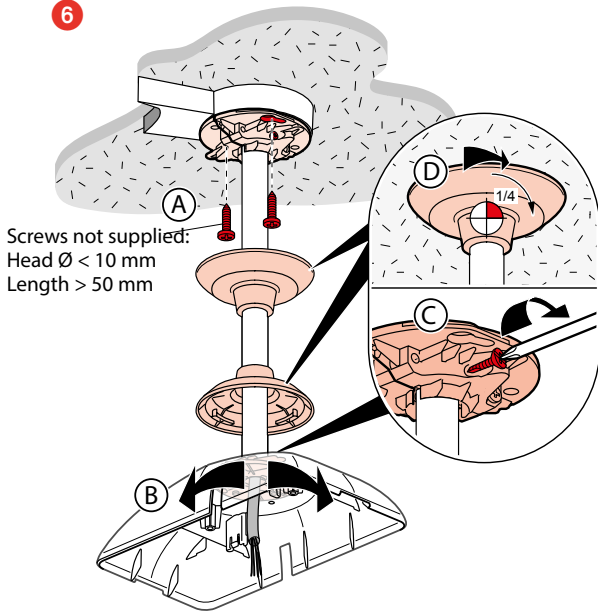
Tube Ø: 20 mm
 MRL 5557 Ø20 - Cat. No. 09720
 zinc-plated steel
 MRL 5557 Ø20 - Cat. No. 09920
 stainless steel



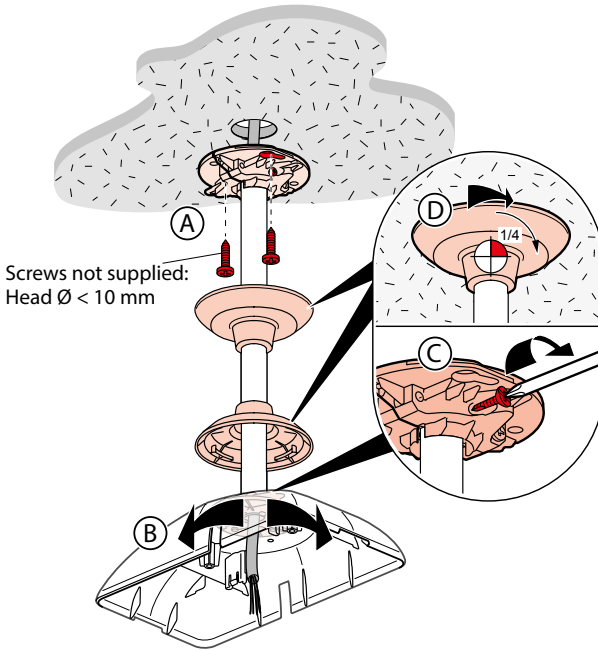
7. EQUIPMENT AND ACCESSORIES (continued)

■ 7.3 Suspension kit Cat. No. 0 626 77 (continued)

6

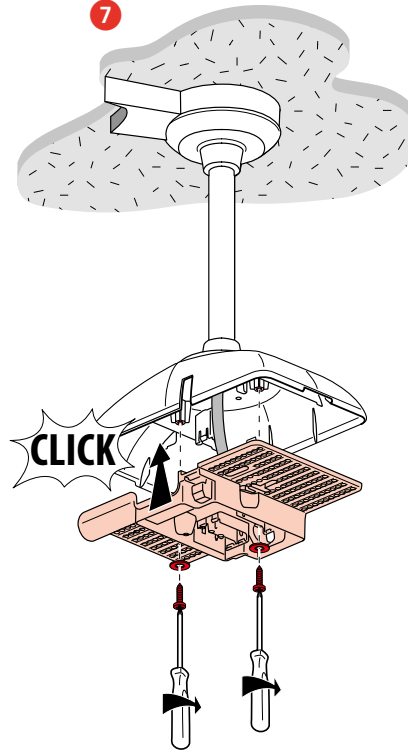


OR

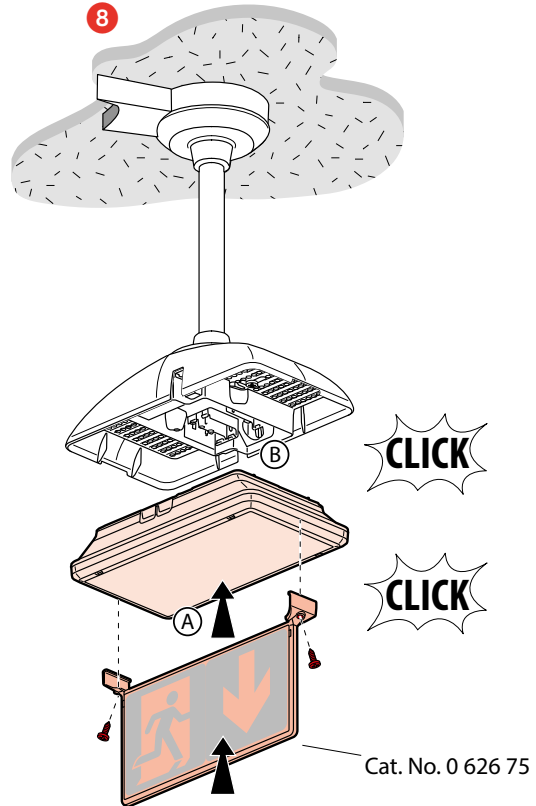


■ 7.3 Suspension kit Cat. No. 0 626 77 (continued)

7



8

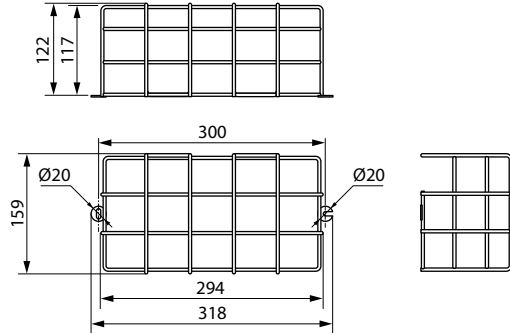


7. EQUIPMENT AND ACCESSORIES (continued)

■ 7.4 Grilles

7.4.1 Standard protective grille Cat. No. 0 626 90

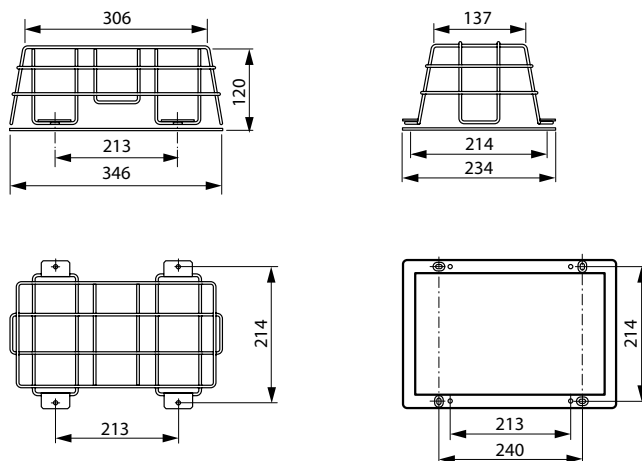
Impact resistance: IK 10 - 20 joules



7.4.2 Vandal-resistant protective grille Cat. No. 0 626 92

Impact resistance: IK 20 - 50 joules

Wall-mounting base on metal frame held in place by 4 metal bolts. Locked with vandal-proof screws, requiring tool Cat. No. 0 919 45 (not supplied).



• Screw tool Cat. No. 0 609 10

For fitting vandal-proof screws in grille Cat. No. 0 626 92.

