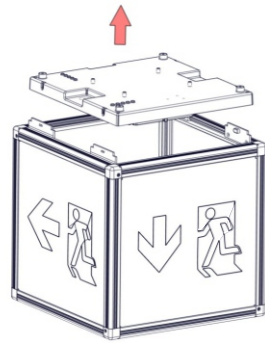
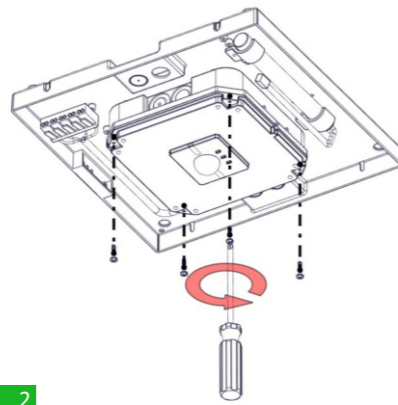


## Module Connection & Dip Switch

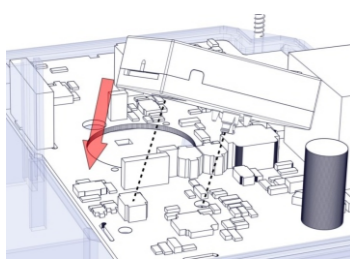


1

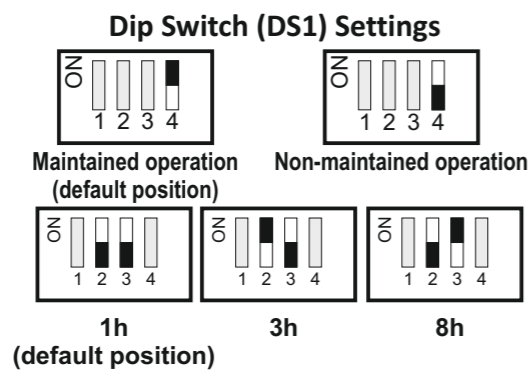


2

## Module connection



3



4

## Autonomy duration selection

The user can select one of the 3 available minimum autonomy durations: 1 hour, 3 hours and 8 hours. The selection must be done while the luminaire is disconnected from AC and battery supplies. The selection is achieved through Switches 2 & 3 of DS1. Switch 1 is not used.

## Technical label installation

Two additional labels are included in the package, one for 3 hours duration (180) and one for 8 hour duration (480). Depending on the selected duration, the installer must cover the default 1 hour (60) printing with one that has the required duration. Please take notice of the orientation of the label.

## Changing the operating mode

The control of maintained or non maintained operation of the luminaire is achieved through Switch 4 of DS1. For maintained operation, switch number 4 must be in ON position. For non-maintained operation, switch number 4 must be in OFF position.

4

## Battery Replacement

It can be done only by a competent person and after the mains interruption.

1. Remove the top cover (Step 1 of hanging or ceiling installation).
2. Unscrew the 2 screws that hold the battery to its base.
4. Remove the old battery and place a new one of the same type and characteristics.
3. Replace the removed parts.

**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

X: Self contained

1: Maintained operation (\*)

A: Including test device

E: With non-replacable lamp(s) and/or battery

G: Internally illuminated safety sign

60: 1 hour duration

180: 3 hours duration

480: 8 hours duration

X 1 A E G 6 0

(\*) **Maintained operation:** The luminaire lights its illumination source, when it is powered by the mains power supply or not.

**Non Maintained operation:** The luminaire lights its illumination source, only in mains power supply's failure.

## ATTENTION!!!



The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. The letter "E" is intentionally noted in the classification code, in order to prevent users from trying to replace the light source.

## Technical Characteristics

Cube M ST LED 50m 230V 10Y 138h	
Part no.:	138004.10
OPERATION VOLTAGE	220-240V AC / 50-60Hz
MAXIMUM POWER CONSUMPTION	6.4W / 6.6VA
MAXIMUM SUPPLY CURRENT	28 mA
U-OUT	40V
Prated	1h: 2W      3h: 1.2W      8h: 0.5W
Irated	1h: 185 mA      3h: 112mA      8h: 47mA
MAX OPEN CIRCUIT VOLTAGE	40V
WIRE CROSS SECTION	0.5mm <sup>2</sup> - 2.5mm <sup>2</sup>
MINIMUM POWER FACTOR	0.97
BATTERY (Li <sub>4</sub> TiSO <sub>12</sub> )	4.8V/2Ah
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic insulation
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic insulation
BATTERY PROTECTION	Deep discharge and overcharge protection / the control gear will recharge the battery normally after the test of 22.3
MINIMUM DURATION	1 hour      3 hours      8 hours
LIGHT SOURCE LUMINOUS FLUX (MAINS / EMERGENCY)	370/370lm      370/230lm      370/110lm
MIN MAX. DISCHARGE CURRENT	430-770mA      270-470mA      125-200mA
MIN MAX. DISCHARGE VOLTAGE	4-6V
MIN MAX. CHARGE CURRENT	190-210mA
TRICKLE CHARGE VOLTAGE/CURRENT	5.8V/70mA
MAX CHARGE VOLTAGE	6V
INDICATIONS/CONTROLS	LED Charge, Lamp Fault LED, Battery Fault LED/Test BUTTON
CHARGE TIME	16h
LIGHT SOURCE	16 power LEDs
DEGREES OF COVER PROTECTION	IP40
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3
OPERATION TEMPERATURE RANGE	-25 to 40 °C
CONTROL GEAR MAX.TEMPERATURE: tc	67 °C at PSU1
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIAL	Aluminium, ABS/PC, PC, Acrylic Plate
EXTERNAL DIMENSION (L x W x H)	310 x 310 x 330 mm
WEIGHT	2600gr.
Expected battery lifetime	10 years
Controlgear classification in accordance with IEC 62034: with automatic test function.	

5

Honeywell Life Safety AS  
Postboks 236, 1372 Asker  
<http://www.hls-nordic.com>

**Honeywell**



## Cube M ST LED 50m 230V 10Y 138h

**SELFTESTING MAINTAINED  
EMERGENCY LUMINAIRE**



4

## Package Contents

- 1 Luminaire (Housing)
- 1 Mounting accessories
- 1 Set of 7 pictograms (2xU, 2xD, R, L, B)
- 4 Acrylic Plates
- 1 Manual

## General

**Cube** is a self-contained luminaire with selftest function. It can be configured as maintained or non-maintained.

### Selftest Functions

Every 15 days the luminaire will perform an emergency operation test. This will light the white LEDs for approximately 3 seconds. The red LED will flash during this test sequence. Every 6 months the luminaire will perform a battery condition test. The test will last for the stated duration. The white LEDs will be lit and the yellow LED will flash during this test sequence.

**Note:** When using DALI or Wireless communication, the frequencies and schedules for tests will instead be determined by the connected PC software.

### Manual Test Functions

#### Emergency Operation Test

Press the TEST button less than 5 seconds. The white LEDs light for about 3 seconds and the red LED flashes.

#### Battery Condition Test

Press the TEST button for 5 to 10 seconds. This test will last for the stated duration and can only be performed when the battery is fully charged (steady green LED). The white LEDs light and the yellow LED flashes.

### Resetting Errors

Press the TEST button more than 10 seconds to delete all indicated errors. The luminaire enters regular operation mode.

In case that the luminaire no longer meets its rated duration of operation, the battery must be replaced.

### Important notice when installing luminaires within the same area!!!

To avoid that luminaires perform their battery test at the same day, connect the battery packs with more than 1,5 minutes in between.

## Indications LED Status

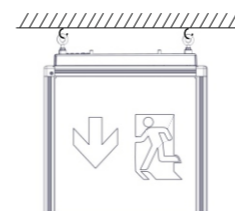
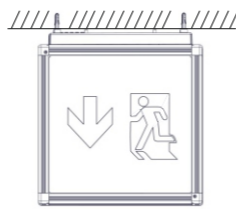
BATT. FAULT (yellow)	LAMP FAULT (red)	CHARGE (green)	Description
⊘	⊘	●	Charging
⊘	⊘	●	Fully charged
⊘	⊘	○	Battery fault or emergency mode
⊘	●	⊘	Operational test
⊘	●	⊘	Light source fault
●	⊘	⊘	Autonomy test
●	⊘	⊘	Duration fault

### Note:

●	Permanently ON
●	Blink
○	Off
⊘	Indifferent

## Installation Methods

The luminaire can be installed in 2 different ways. It can be installed either at the ceiling or hanging with eye bolts. All accessories are including in the package.

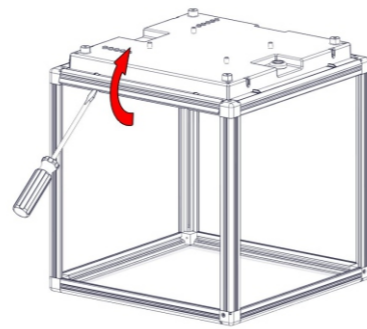


**A** Ceiling mounting

**B** Hanging installation with hooks

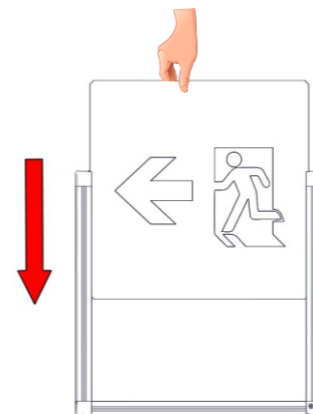
## Installation Instructions

### Pictogram Installation



Place the appropriate pictograms according to the position of the luminaire. Firstly, remove the retaining plastic clip.

**1**



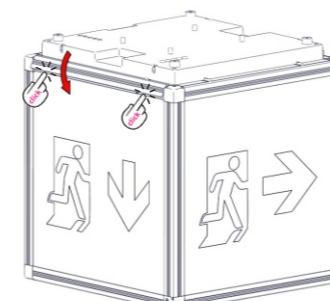
Install the pictogram and make sure it goes all the way down.

**2**



Remove the protective films from both sides of the acrylic plate and install it in front of the pictogram. Mind the orientation of the acrylic plate.

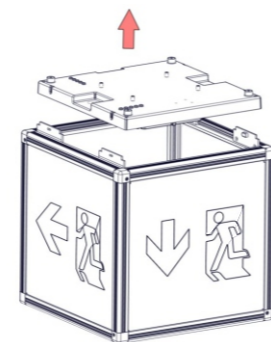
**3**



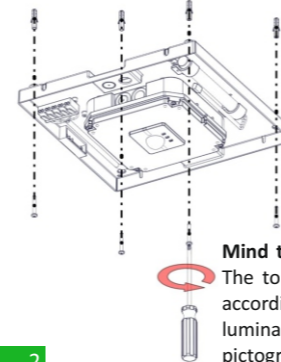
Place the plastic retaining clip, press until you hear click sound. Follow the same steps for the remaining sides of the pictogram.

**4**

### Ceiling Mounting

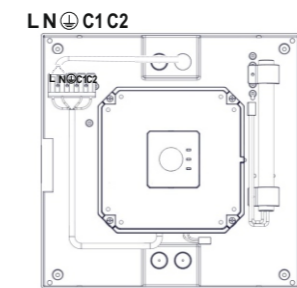


**1**



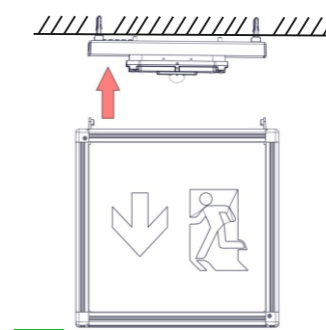
**2**

**Mind the orientation of placement!!**  
The top cover placement is achieved according to the bottom part of the luminaire and the already installed pictograms.



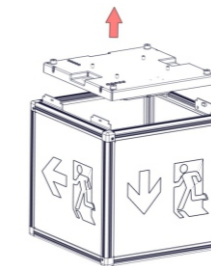
Make a hole in the center of the rubber gasket by using a small screwdriver. Pass the round cable through the rubber gasket and install the gasket in the appropriate hole. Connect the mains cable to the respective terminal block: L for live wire, N for neutral and ⊕ for ground. Install the included tie-wrap to the included adhesive tether loop and fasten securely the power cable in order to anchor it. Power supply cables cross section should be 0.8 – 3 mm<sup>2</sup>. The C1 and C2 terminals are used for eBus communication (optional), DALI communication (optional) or voltage free contact (optional).

**3**

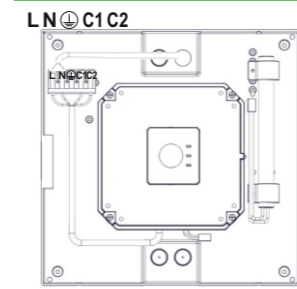


**5**

### Hanging Installation

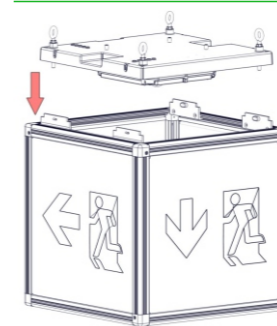


**1**



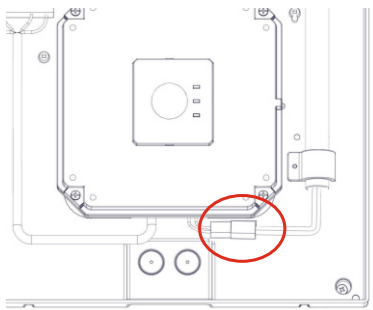
Make a hole in the center of the rubber gasket by using a small screwdriver. Pass the round cable through the rubber gasket and install the gasket in the appropriate hole. Connect the mains cable to the respective terminal block: L for live wire, N for neutral and ⊕ for ground. Install the included tie-wrap to the included adhesive tether loop and fasten securely the power cable in order to anchor it. Power supply cables cross section should be 0.8 – 3 mm<sup>2</sup>. The C1 and C2 terminals are used for eBus communication (optional), DALI communication (optional) or voltage free contact (optional).

**3**

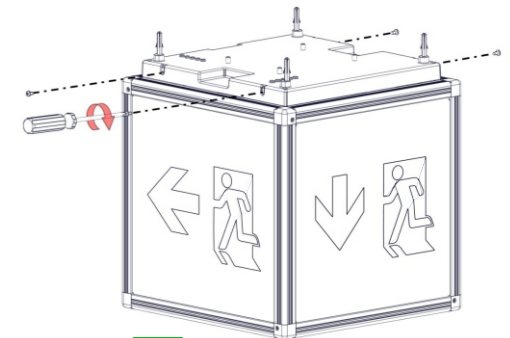


**5**

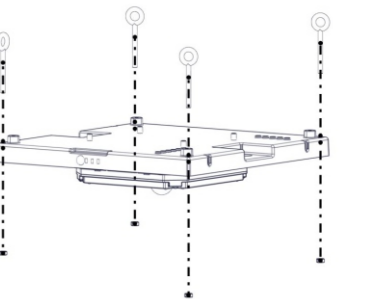
## Battery Connection



**4**

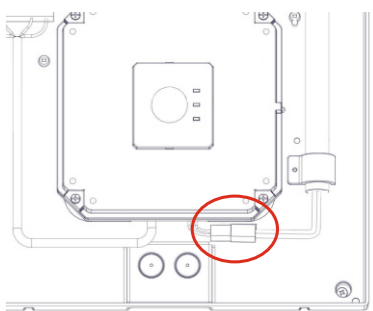


**6**

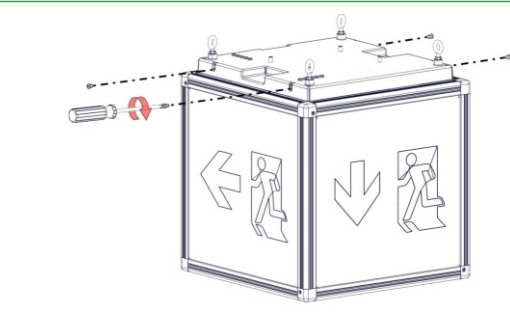


**2**

## Battery Connection



**4**



**6**