

# Installation Instructions: LED Emergency 6 in 1 Exit Blade, DALI Addressable (09154)

Date	Revision
10.1.25	1

Read these instructions before installation and retain for future reference.  
This equipment should be installed by a competent electrician



### Important Information

We recommend that luminaires are installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations BS7671:2018 & local building control.

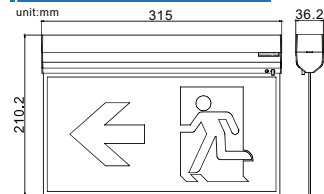
- BELL will not accept responsibility for any claims arising from a poor installation.
- The light source of this luminaire is not replaceable: when the light source reaches end of life, the whole luminaire must be replaced.
- Always switch off mains supply before installing.
- All tests should be carried out in accordance to EN 50172:2004
- Do not cover with any insulation

This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery. Where possible recycle your packaging.

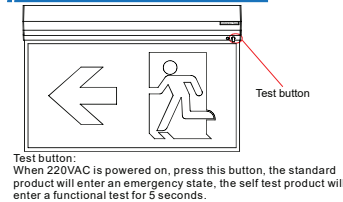


- Supply Voltage:220-240VAC 50/60Hz
- Protection Class: II
- Type of Protection:IP20
- Max Battery Temperature:60°C
- Ambient Temperature: 5-45°C
- Charge indicator:Green LED
- Deep Discharge Protection DDP
- 6 in 1 installation mode
- Maintained and Non-maintained mode

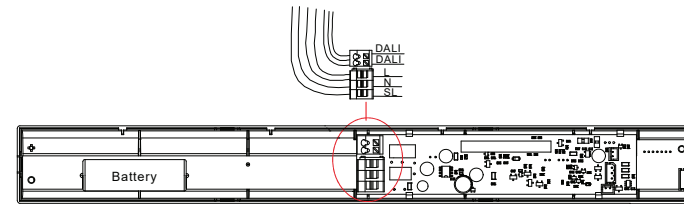
### Mechanical Outline



### Test Button

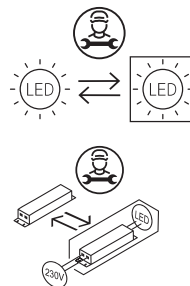


### Connections



Note:  
Step "1":Lead the AC and DALI cables from the waterproof connector,connect the SL,L,N,DALI cables to the terminal respectively to complete the wiring, and turn on the maintain mode.

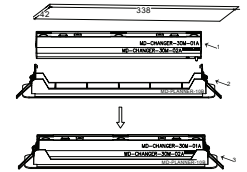
Note:  
1.Maintained mode: Wiring both L, N and SL.  
2.Non-maintained mode: Wiring only L and N.  
Requirements for wiring wires:  
1.Wire diameter range: 0.75-1.5 square meters;



### Mounting Options

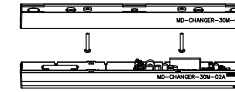
#### • Recessed mounted

- Step "1":Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02A
- Step "2":Put MD-CHANGER-30M-02A into MD-PLANNER-10B
- Step "3":Install the CHANGER-30M with recessed mounting



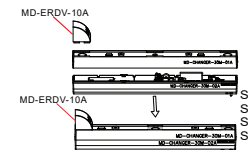
#### • Ceiling mounted

- Step "1":Slide the screws into the MD-CHANGER-30M-01A
- Step "2":Install the screws on the ceiling
- Step "3":AC wires input
- Step "4":Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02A



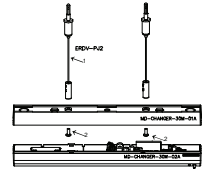
#### • Suspended mounted

- Step "1":Slide The ERDV-PJ2 into the MD-CHANGER-30M-01A
- Step "2":Install the ERDV-PJ2 on the ceiling with screws
- Step "3":AC wires input
- Step "4":Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02A



#### • Perpendicular mounted

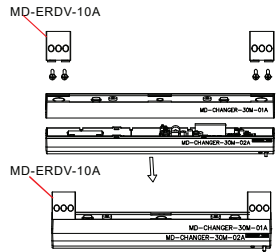
- Step "1":Slide the MD-ERDV-10A into the MD-CHANGER-30M-01A
- Step "2":Install the MD-ERDV-10A on the wall with screws
- Step "3":AC wires input
- Step "4":Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02.



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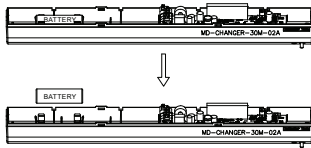
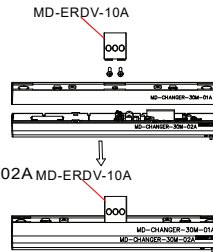


### Parallel mounted

- Step "1": Slide the MD-ERDV-10A into the MD-CHANGER-30M-01A
- Step "2": Install the MD-ERDV-10A on the wall with screws
- Step "3": AC wires input
- Step "4": Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02A

### Wall mounted

- Step "1": Slide the MD-ERDV-10A into the MD-CHANGER-30M-01A
- Step "2": Install the MD-ERDV-10A on the wall with screws
- Step "3": AC wires input
- Step "4": Close the MD-CHANGER-30M-01A and the MD-CHANGER-30M-02A

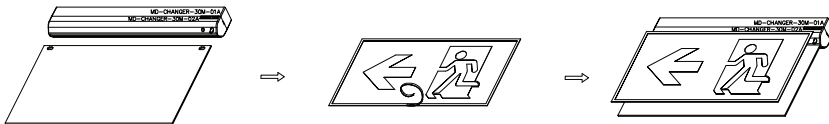


### Battery installation

- Step "1": Remove old batteries and install new ones
- Note: 1. The battery replacement can only be done by qualified electrician. The manufacturer will not be responsible for any damage caused by wrong operation or maintenance.
- 2. Replace the battery by referring to the battery model in the product model list.

### Light guide mounted

- Step "1": Slide the light guide plate in MD-CHANGER-30M-02A
- Step "2": Tear the tape at the bottom of the PET directional film
- Step "3": Paste the PET directional film on the light guide plate



### DALI Control:

A DALI command from a suitable control unit can be used to initiate function and duration tests at individually selected times. Status flags are set for report back and data logging of results. When a DALI bus has not been connected or when a DALI bus is connected but the DALI default DELAY and INTERVAL times have not been re-set by sending appropriate DALI commands, then the CGR-30M will conduct self-tests in accordance with the default times set within the EEPROM. These default times are factory pre-set, in accordance with the DALI standard EN 62386-202, to conduct an automatic function test every 7 days and a duration test every 52 weeks. Since the DELAY time is factory pre-set to Zero, all units are tested at the same time. Test times can be changed with a command over the DALI bus. The DELAY and INTERVAL time values must be re-set when the emergency system test times are to be scheduled by a DALI control and monitoring system. Note that once the default values have been set to Zero, tests will only be conducted following a command from the control system. If the DALI bus is disconnected the CGR-30M does not revert to self-testing mode.

### Addressing:

For single handed addressing using this method it is necessary to send a broadcast indent command every 3 to 9 seconds. During this command the LEDs will be switched off and the indication LED will flash the 6 bit binary address preceded by a 3 second start indication period.

### Rest Mode / Inhibit Mode:

Emergency operation is automatically started when the mains supply is switched off. If the Rest Mode is activated, the discharging of the battery will be minimized by switching off the LED output.

If the Inhibit Mode has been activated before the mains supply is switched off, Rest Mode will be automatically switched on if the mains supply is switched off within 15 minutes. REST Mode and Inhibit Mode can be initiated by the DALI controller. The REST command has to be sent after the mains supply has been disconnected and whilst the CGR-30M is in emergency operation. The inhibit command has to be sent while the CGR-30M is supplied by mains.

After a mains reset the CGR-30M exits the Rest Mode. Rest Mode and Inhibit Mode can both be disabled by

Indicator LED System status is locally by a bi-color indicator LED.

LED Indication	Status	Description	NOTICE
Permanent Green	Standby ,System OK	Mains Operation, battery is charged	Fault status:
Fast flashing Green (0.25s on 0.25s off )	Function test underway	Function test underway	If an error is detected, the indicator LED switches to RED. If the error has been corrected please re-connecting the battery after the mains power off, the indicator LED immediately switches back to GREEN when mains power on.
Slow flashing Green (1s on 1s off)	Duration test underway	Duration test underway	NOTICE
Permanent Red	Lamp failure	Open Circuit or Short circuit or LED failure	If the battery voltage is below 2.8V, the moment you start function test, may show battery error (red indicator flashes 0.5S on, 0.5S off), to clear this error, you need to remove and reconnect the battery or, charge the battery at least 3min, then start the function test, once the test finish, the error will be clear. So, in order to avoid this, we suggest to start function test after the battery charged for 10min.
Fast flashing Red (0.25s on 0.25s off)	Battery capacity failure	Battery failed duration test	
Slow flashing Red (1s on 1s off)	Battery fault	Incorrect battery voltage or Short circuit or Open Circuit	
Green and Red off	Battery Operation	Emergency mode: Mains disconnected or Mains failure	