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DAKOTA LIFE STANDARD, SELF TEST & DALI ADDRESSABLE TEST EMERGENCY BULKHEAD INSTRUCTIONS
Issue 03 April 2026

STANDARD / SELF TEST VERSIONS
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DALI ADDRESSABLE TEST VERSIONS
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Thank you for your purchase
For best results, have this light fitting installed by a qualified electrician, following these instructions. Keep this leaflet for future reference.

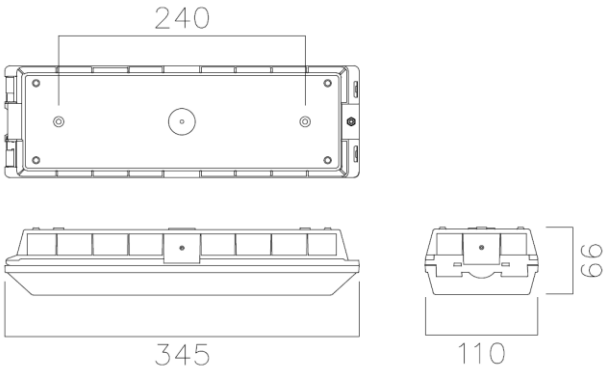
Safety

- Mains powered – installation must comply with building and electrical regulations.
- Always switch off and isolate the power before installation or maintenance.

Need Help?
For advice or accessories, contact us at the address above. Please have the product name, model, and purchase details ready.

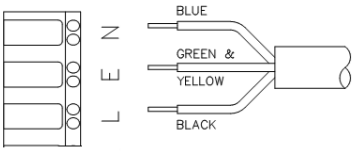
STANDARD / SELF TEST VERSIONS

LUMINAIRE INSTALLATION



1. Undo the diffuser securing screw.
2. Unclip the diffuser using a suitable flat blade screw to release the hinged gear tray open
3. Screw the base to the chosen mounting surface using the two screw fixing points in the base moulding at 240mm centres. These should be drilled to a size to suit the fixing screws.
   Note: It is the responsibility of the installer to ensure these fixing points are sealed to ensure the IP65 rating is maintained. The use of silicone sealant is recommended.
4. Select one of the available cable entry points on the base (one on either end or sides, or through the bottom) & drill to suitable size to suit IP65 rated (or better) cable entry gland (not provided).
5. Install cable entry gland.
6. Route the appropriate power supply cable to the terminal block & terminate as shown.

NON–MAINTAINED OPERATION



7. If applicable, tighten cable gland to seal & secure mains cable.
8. Connect the battery pack to the PCB by connecting the female socket on the battery wires to the male plug mounted on the PCB, ensuring the correct orientation.
9. Enter the “Installation Date” in the appropriate place on the battery pack label.
10. Refit the diffuser, clip into place & secure using the screw opposite to step1 & 2 above.
11. Reconnect the power supply & check the green LED charge indicator illuminates.
12. The batteries should be allowed to charge for at least 24 hours before carrying out a full discharge test to check they are charging correctly & the maintained duration is being achieved.

OPERATION / MAINTENANCE

13. Ensure cleanliness of the luminaire is maintained so as not to affect performance.
14. The light source of the luminaire is non-replaceable; when the light source reaches its end of life the whole luminaire must be replaced.
15. **Do not insulation test this luminaire!**

********** **IMPORTANT WARNING** **********

The luminaire uses Lithium Iron Phosphate cells (LiFeP04) in its battery pack. These batteries include overcharge protection circuitry and a Negative Temperature Co-efficient (NTC) third lead to control thermal runaway.
When the battery is no longer able to provide its full rated duration, it must be replaced with an identical type. Please consult the manufacturer if in doubt.

OPERATION / MAINTENANCE

- Nominal battery life is designed to be at least 4 years. The battery should be replaced when it is no longer able to provide it’s 3 hours of rated duration.
- Ensure cleanliness of the luminaire is maintained so as not to affect performance.
- **Do not insulation test!**

The luminaire operating temperature range is 0ºC - +40ºC.

TESTING FOR EMERGENCY LUMINAIRES

Recommended routine test procedures in line with BS 5266 & BS EN 50172:

Monthly Functional Test

- Simulate a mains supply failure by:
  - isolating the circuit (ensuring if it is safe to do so)
  - by way of a test key switch if fitted into the circuit
  - by pressing the test button next to the lens on the head unit
- Do this for a period of time (usually 30s) to check that the light source illuminates from the battery supply.
- Once complete, ensure the normal supply is restored & that the green LED charge indicator illuminates.
- Log result/comments in the emergency lighting logbook.

Annual Discharge Test

- Simulate a mains supply failure by isolating the circuit (ensuring if it is safe to do so) or by way of a test key switch if fitted into the circuit.
- This should be for the full 3-hour rated duration.
- Check that the light source illuminates & remains illuminated for the full rated duration period.
- Once complete, ensure the normal supply is restored & that the green LED charge indicator illuminates.

Log result/comments in the emergency lighting logbook

SELF-TEST VERSIONS

This product comes with a built-in self-test facility. Once given a permanent mains supply, the luminaire will automatically carry out a monthly functional check & an annual full duration test, in line with the testing procedures to BS 5266 and BS EN 50172.

Initial Test

- After receiving a permanent mains power supply, the luminaire will undertake a short (30s) function test, then charge for 24 hours before carrying out a 3-hour duration test. **Do not interrupt the mains power supply during this period.**
- During this test the LED module will illuminate & the green LED indicator will rapidly flash red.

Monthly Function Test

- After installation the luminaire will carry out a 30 second function test. This will be selected randomly between day 15 to day 30 after installation so that all self-test products do not go into a self-test at the same time.
- During this test the LED module will illuminate & the green LED indicator will rapidly flash red.
- This test will then be repeated every 30 days.

Annual Duration Test

- After 11 monthly function tests, the luminaire will carry out a full rated duration test.
- The test will last 3 hours.
- During this time the LED module will illuminate & the green LED indicator will rapidly flash red.

FAULT INDICATORS

If during the self-test a fault is detected, it will be indicated as follows by the RED status indicator:

- **1 flash every 3 seconds –** Fault with battery. Maybe a battery failure & requires changing, or not connected properly.
- **2 flashes every 3 seconds** – Fault with LED module.
- **3 flashes every 3 seconds –** Duration time not being met so batteries will need to be replaced.

NOTES

1. After completion of the tests listed above the luminaire will repeat the process of 11 monthly function tests & 1 annual duration test.
2. If there is a power outage before any of the tests, the luminaire will delay the test appropriately to ensure a minimum 24 hours charge is received.
3. A fault indication will continue until the fault is rectified.
4. A reset of the mains supply will be required to clear the fault code once it has been rectified.

DALI ADDRESSABLE TEST VERSIONS

Normal Operation: The green LED indicator stays on when connected to mains supply. The indicator will turn off when the mains supply fails, or when the internal charger malfunctions, or when the luminaire is in test mode.

Battery: LiFePO4 rechargeable battery pack. Battery should be replaced when it reaches the end of its lifetime. To avoid damage to the luminaire and ensure its performance, the battery should be replaced with same type. LiFePO4 battery should not be charged below 0℃ or above 60℃ according to IEC 60598-2-22. When the battery temperature is detected below 0℃ or above 60℃, the LED indicator will be off and the battery will stop charging.

Test Switch: Press the test button, LED indicator will turn off / flash and the luminaire will be powered by the battery pack. The light source is non-replaceable. When the light source reaches the end of its lifetime, the whole luminaire shall be replaced.

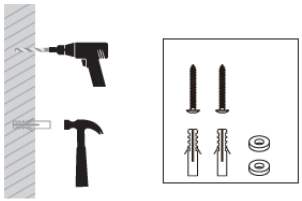
Installation Procedure

WARNING

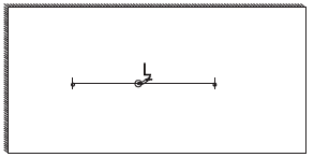
1.Switch off before installation or maintenance.
2.Switch on only after complete installation and examination of the circuit.
3.Professional electrician for installation and maintenance only.
4.This luminaire is not intended for use in high-risk task area lighting.

Wall Mount

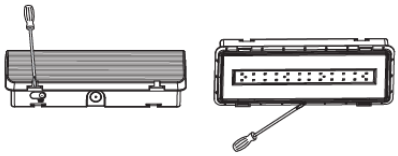
1. Accessories include screws, rubber washers & plastic wall plugs for fixing on the wall.



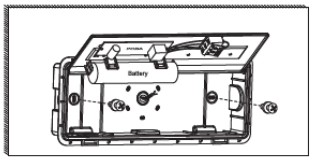
2. Drill 240mm fixing centres.



3. Lever off the diffuser as shown off to remove. Lever off one side of the gear tray and hinge to access terminals.



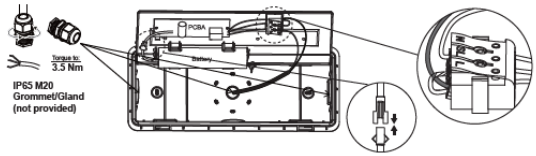
4. Fit the rubber washer to the screw and then screw the fixture to the surface.



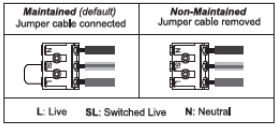
5. Punch out the cable entry hole, connect the mains supply wires to the terminal, and connect the battery onto the PCB.

Choose maintained or non-maintained mode by connecting or removing the jumper cable.

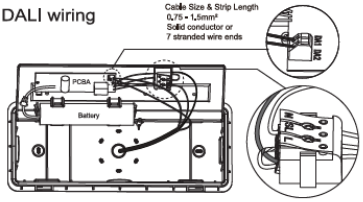
Note: The IP65 M20 Grommet is to be applied with the required torque of 3.5Nm.



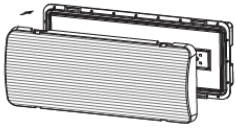
Cable Size & Strip Length 0.75 - 2.5mm²
Solid conductor or 7 stranded wire ends
"Wire"L""N" to terminal block



DALI wiring

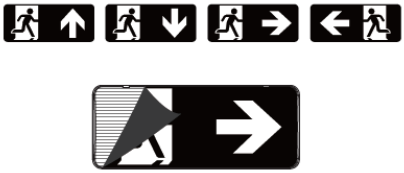


6. Refit the gear tray and diffuser.

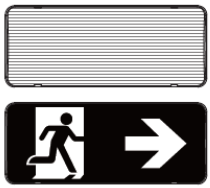


* * *Wire"L""N" to terminal block, wire 2 x DALI signal wires to terminal on PCB*

7. Bond the required pictogram onto the diffuser (optional).

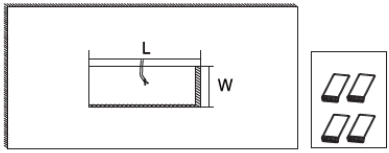


8. Switch on, the green LED indicator will light up.

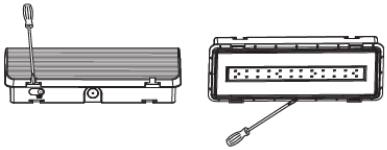


Recessed Mount

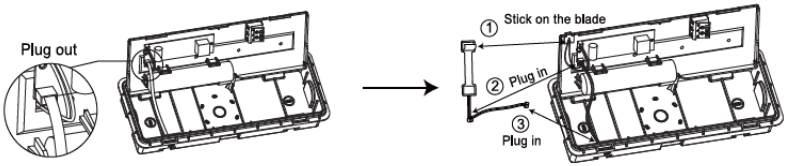
1. Cut out size: L320-325mm x W115-120mm.



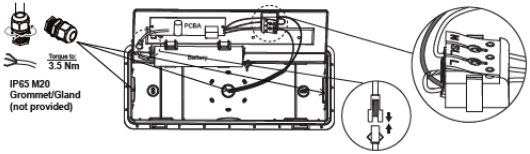
2. Lever off the diffuser as shown off to remove. Lever off one side of the gear tray and hinge to access terminals.



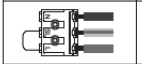
3. Replace with FPC indicator
Plug out the normal indicator light replace with the FPC indicator, tear off the adhesive layer and stick on the middle blade.



4. Punch out the cable entry hole, connect the mains supply wires to the terminal, and connect the battery onto the PCB.
Choose maintained or non-maintained mode by connecting or removing the jumper cable.
Note: The IP65 M20 Grommet is to be applied with the required torque of 3.5Nm.

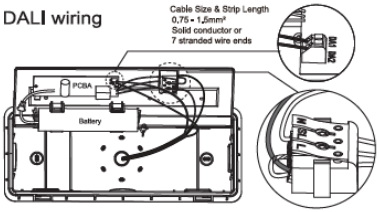


Cable Size & Strip Length 0.75 - 2.5mm²
Solid conductor or 7 stranded wire ends
*Wire"L""N" to terminal block

Maintained (default) Jumper cable connected	*Non-Maintained* Jumper cable removed
	

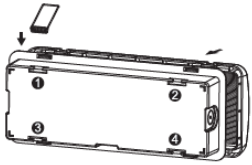
L: Live SL: Switched Live N: Neutral

DALI wiring

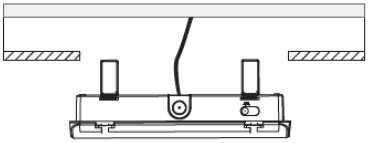


* * Wire"L""N" to terminal block , wire 2 x DALI signal wires to terminal on PCB

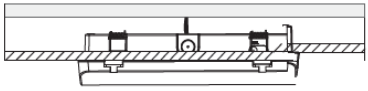
5. Refit the gear tray and diffuser, then install the 4 recessed springs onto the base.



6. Fix the luminaire into the ceiling.



7. Switch on, the green LED indicator will be on. Installation complete.



Status Indication for Automatic Test Version

1. Instruction for Automatic test function

Once the unit is powered up, a self-diagnostics test will be automatically initiated:

- Check battery, lamp, charge board and transfer fault all the time.
- Run 3mins duration test every month.
- Run 1H or 3H duration test every year.

Note: All test functions are preset and does not need field adjustment.

•	One flash, 4s pause	Battery disconnected
••	Two flashes, 4s pause	Low battery voltage
•••	Three flashes, 4s pause	Charge board fault
••••	Four flashes, 4s pause	AC/DC transfer fault
•••••	Five flashes, 4s pause	LED lamp fault

Note: When the fault is recovered, press the test button for 2s, the red flashing indicator will turn green. The fault is cleared, and the unit is back to normal.

2. Dual Colour LED Status Indicator Meaning

- Green indicator solid on: Ready/ Normal Operation
- Red indicator flashes: Require service

3. Button Test

Press test button once	run a 30s duration test
Press test button twice within 2s	run a 3mins duration test
Press test button 3 times within 2s	run a 30mins duration test
Press test button 4 times within 2s	run a 1H or 3H duration test

Instructions for DALI test option

1. Instruction for DALI test function

Once the unit is powered up, a self-diagnostics test will be automatically initiated:

- Function test: Run a 5s function test each week.
- Duration test: Run a 1H or 3H self-discharge each 52 weeks.

After the first power on and charging for 20 hours, it will perform a 1H or 3H self-discharge.

Note: All test functions are preset and does not need field adjustment.

2. Button Test

Press the test button once	Run a 5s function test
Press and hold the test button	Enter emergency mode
Release the test button	Exit emergency mode

3. System status is indicated by a bi-colour LED and by a DALI status flag

LED Indication	Status	Commentary
Permanent green	System OK	
Fast flashing green (0,1 sec. on - 0,1 sec. off)	Function test underway	
Slow flashing green (1 sec. on – 1 sec. off)	Duration test	
Red LED on	Load failure	Open circuit / Short circuit / LED failure
Slow flashing red (1 sec. on - 1 sec. off)	Battery failure	Battery failed the duration test or function test/ Battery is defect / Incorrect battery voltage
Fast flashing red (0,1 sec. on - 0,1 sec. off)	Charging failure	Incorrect charging current
Double pulsing green	Inhibit mode	Switching into inhibit mode via controller
Binary transmission of address via green/red LED	Address identification	Provides the DALI short address of the fitting via binary code. Red=0, Green=1,Example:000011= SA3
Green and red off	Emergency mode	Battery operation (Emergency mode)