NVC Lighting Limited
NVC Park 201 Hollymoor Way Rubery Birmingham B31 5HE UK
T +44 (0)121 457 6340 F +44 (0)121 453 1325 E sales@nvcuk.com www.nvcuk.com

SENECA LIFE SURFACE MOUNT EMERGENCY LUMINAIRE INSTRUCTIONS
Issue 01 April 2026

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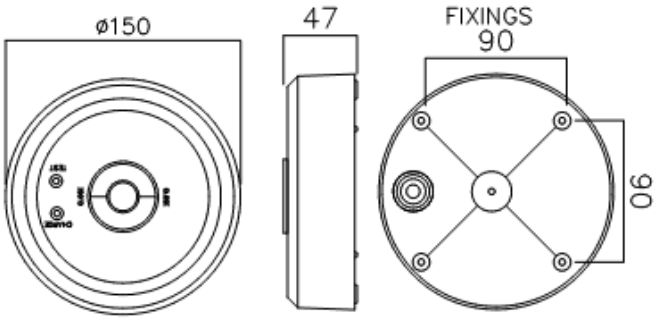
Thank you for your purchase
For best results, have this light fitting installed by a qualified electrician, following these instructions. Keep this leaflet for future reference.

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.

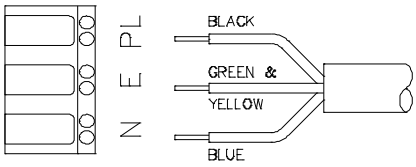
STANDARD VERSION

LUMINAIRE INSTALLATION



Remove the front cover molding by releasing the three clips on the side wall using a flat head screwdriver.

1. Prepare the surface & mains supply cable.
2. Route the mains supply cable through the hole in the base & then screw fix the base to the mounting surface using the four fixing points provided at 90mm centres.
3. Route the mains supply cable to the terminal block & terminate as shown.



4. Connect the battery pack to the PCB by connecting the 2-pole female socket on the battery wires to the larger 2-pole male plug mounted on the PCB labeled “+ BATT -”. Ensure correct orientation.
5. Enter the “Installation Date” in the appropriate place on the battery pack label.
6. Offer the front cover to the base & connect:
    a. The 2-pole connector to the 2-pole plug on the main PCB labeled “LED-/ LED+”, ensuring correct orientation.
    b. The 3-pole connector to the 3-pole plug on the main PCB, ensuring correct orientation.

7. Refit the front cover molding by snap fixing over the four clips & ensuring there are no wires trapped. Note! There is a location peg that needs to align with a recess in the front cover molding.
8. Reconnect the power supply & check the green LED charge indicator illuminates.
9. 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.
10. The luminaire operating temperature range is 0ºC - +40ºC.

LENS SELECTION

The luminaire comes fitted with a wide distribution lens as standard.

1. There is an option to change to the oval distribution lens (supplied) by following the below steps:
    a. Remove the wide distribution lens by turning it anti-clockwise from the closed position to the unlocked open position (aligned with the two arrows).
    b. Locate the oval distribution lens onto the front cover in the unlocked open position (aligned with the two arrows) and turn clockwise to lock the lens into the closed position.

********** 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

1. Nominal battery life is designed to be at least 4 years. The battery should be replaced when it is no longer able to provide its 3 hours of rated duration.
2. This luminaire MUST be disconnected before the circuit it is installed on is subjected to any high voltage or insulation resistance testing, otherwise irreparable damage will occur to luminaire components.
3. Ensure cleanliness of luminaires is maintained so as not to affect performance.

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 it is safe to do so) or by way of a test key switch if fitted into the circuit.
- Do this for a period of time sufficient 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

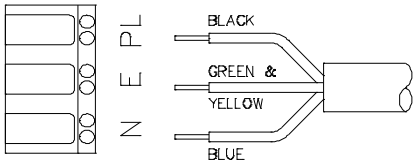
- Simulate a mains supply failure by isolating the circuit (ensuring if it is safe to do so) or by way of a test key switch if fitted into the circuit.
- This should be for the full 3-hour rated duration.
- Check that the light source illuminates & remains illuminated for the full rated duration period.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

SELF TEST VERSION

LUMINAIRE INSTALLATION

Remove the front cover moulding by releasing the three clips on the side wall using a flat head screwdriver.

11. Prepare the surface & mains supply cable.
12. Route the mains supply cable through the hole in the base & then screw fix the base to the mounting surface using the four fixing points provided at 90mm centres.
13. Route the mains supply cable to the terminal block & terminate as shown.



14. Connect the battery pack to the PCB by connecting the 2-pole female socket on the battery wires to the larger 2-pole male plug mounted on the PCB labeled "+ BATT -". Ensure correct orientation.
15. Enter the "Installation Date" in the appropriate place on the battery pack label.
16. Offer the front cover to the base & connect:
    c. The 2-pole connector to the 2-pole plug on the main PCB labeled "LED-/ LED+", ensuring correct orientation.
    d. The 3-pole connector to the 3-pole plug on the main PCB, ensuring correct orientation.
17. Refit the front cover molding by snap fixing over the four clips & ensuring there are no wires trapped.
    Note! There is a location peg that needs to align with a recess in the front cover molding.
18. Reconnect the power supply & check the green LED charge indicator illuminates.
19. The luminaire operating temperature range is 0ºC - +40ºC.
20. **This is a class I luminaire so must have a protective Earth.**

LENS SELECTION

The luminaire comes fitted with a wide distribution lens as standard.

2. There is an option to change to the oval distribution lens (supplied) by following the below steps:
    a. Remove the wide distribution lens by turning it anti-clockwise from the closed position to the unlocked open position (aligned with the two arrows).
    b. Locate the oval distribution lens onto the front cover in the unlocked open position (aligned with the two arrows) and turn clockwise to lock the lens into the closed position.

********** 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

4. 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.
5. This luminaire MUST be disconnected before the circuit it is installed on is subjected to any high voltage or insulation resistance testing, otherwise irreparable damage will occur to luminaire components.
6. Ensure cleanliness of luminaires is maintained so as not to affect performance.

SELF TEST FUNCTION

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.

Initial Test

- After receiving a permanent mains power supply, the luminaire will now charge for 24 hours before carrying out 3 hours rated duration test.
- During this test the LED module will illuminate & the 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 not all self-test products go into test mode 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 3hours rated duration test.
- The test will last 3 hours.
- During this time the LED module will illuminate & the green LED indicator will go out.

FAULT INDICATORS

If during the self testing a fault is detected, these will be indicated as follows by the RED LED indicator:

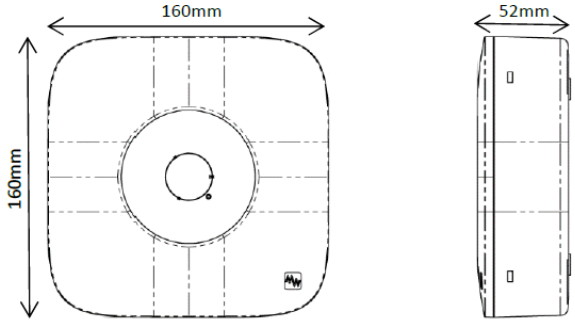
- **1 flash every 3 seconds –** Fault with battery. Maybe a battery failure & requires changing, or not connected properly.
- **2 flashes every 3 seconds** – Fault with LED module.
- **3 flashes every 3 seconds –** Duration time not being met so batteries will need to be replaced.

NOTES

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

DAM3 VERSION

Dimensions

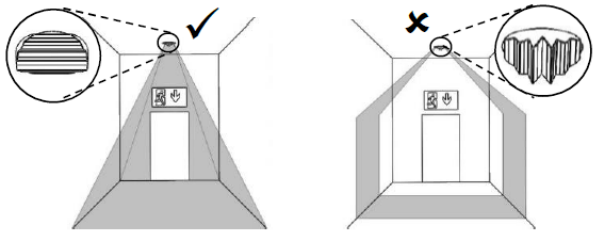


220-240V ac 50/60Hz IP65 ta: 0°C...+35C

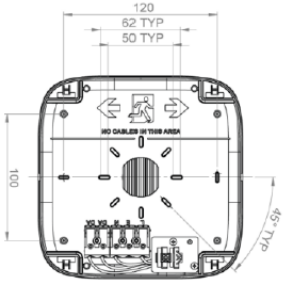
Lens Options

Open Area Escape Route Emphasis Point

Escape Route Optic / Luminaire Orientation

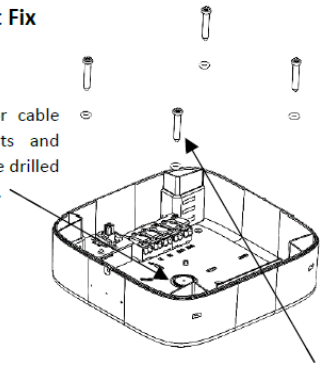


Cable Entry Preparation & Luminaire Base First Fix

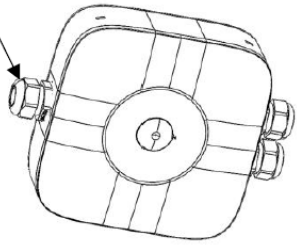


Luminaire base to be fixed to mounting surface.
An embossed area with the 'running man' and directional arrows denotes the required luminaire orientation for escape routes.

Markers for cable entry points and fixings to be drilled as required.

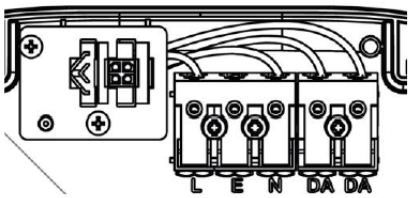


Ensure relevant cable glands and washers are used to maintain the IP65 rating where entry points are made in the luminaire.



Use rubber seals as supplied to ensure IP65 in the locations shown. Note if BESA and other slotted fixings are used ensure that they are sealed sufficiently with silicone sealant

Input Wiring

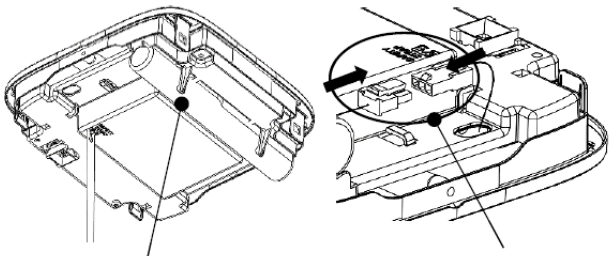


Incoming mains and DALI wiring to be terminated in the relevant pushwire terminals. These can also be used for loop-in/loop-out wiring.

Cable Size & Strip Length

C.S.A: 0.75 to 1.5mm²
Solid conductor or 7 stranded wire ends

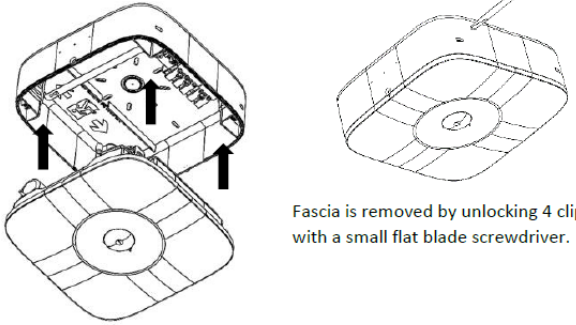
Battery Connections



Battery is push fitted, and clips in to place. Pull firmly to remove when replacement is required.

When ready to commission, make battery connection with in-line plugs.

Fascia Fitment / Removal



Fascia is removed by unlocking 4 clips with a small flat blade screwdriver.

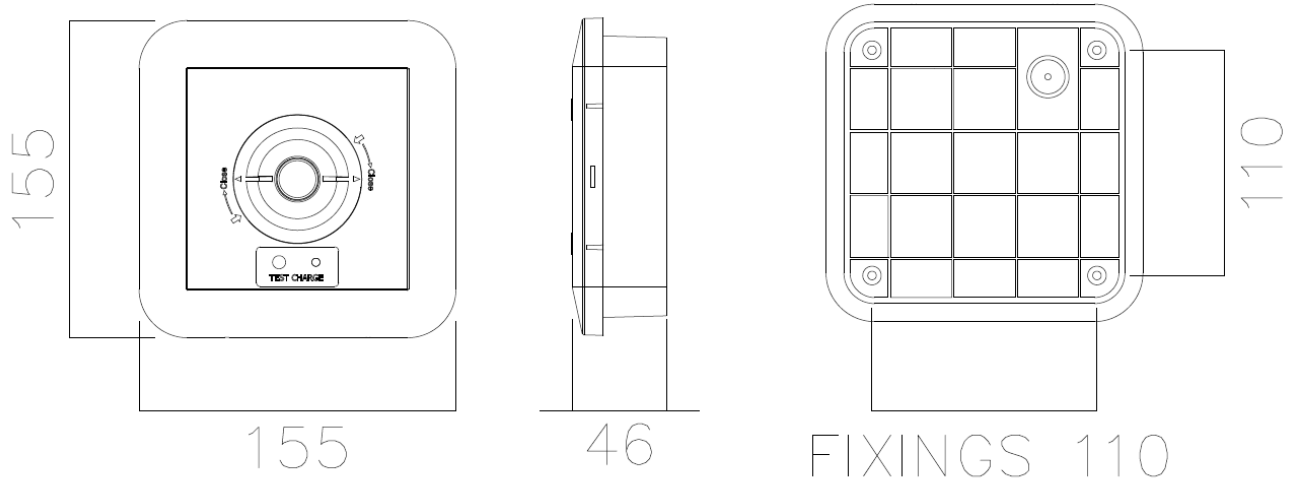
The safety tether should be attached to both parts of the luminaire, before aligning the mating 4-way connectors. The fascia then clips into place.

Additional Information

- The LED light source is non-replaceable.
- Once LED's reach end-of-life, the luminaire will need to be replaced.
- Luminaire is suitable for indoor use ONLY.
- Refer to the ELEDD MICRO user guides on mackwell website for further commissioning and functionality information.
- Batteries must be replaced when the luminaire is not able to meet rated emergency duration. For Battery replacement order codes please refer to the luminaire datasheet.
- Basic insulation is provided between the Live supply and DALI control conductors.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.275m (LSX) or 0.5m (LSX HO) is not expected.

BLACK VERSIONS

LUMINAIRE INSTALLATION:



Part Code:- NSC/BK/SURF/SQ/NM3

Remove the front cover molding by releasing the four clips on the side wall using a flat head screwdriver.

21. Prepare the surface & mains supply cable.
22. Route the mains supply cable through the hole in the base & then screw fix the base to the mounting surface using the four fixing points provided at 110mm centers.
23. Route the mains supply cable to the terminal block.
24. Connect the battery pack to the PCB by connecting the 2-pole female socket on the battery wires to the larger 3-pole male plug mounted on the PCB. Ensure correct orientation.
25. Enter the “Commission Date” in the appropriate place on the battery pack label.
26. Offer the front cover to the base & connect:
    e. The 2-pole connector to the 2-pole plug on the main PCB labeled “LED-/ LED+”, ensuring correct orientation.
    f. The 2-pole test connector to the matching plug on the PCB
27. Refit the front cover molding by snap fixing over the four clips & ensuring there are no wires trapped. Note! There is a location peg that needs to align with a recess in the front cover molding.
28. Reconnect the power supply & check the green LED charge indicator illuminates.
29. 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.
30. The luminaire operating temperature range is 0ºC - +40ºC.

LENS SELECTION:

The luminaire comes fitted with a wide distribution lens as standard.

3. There is an option to change to the oval distribution lens (supplied) by following the below steps:
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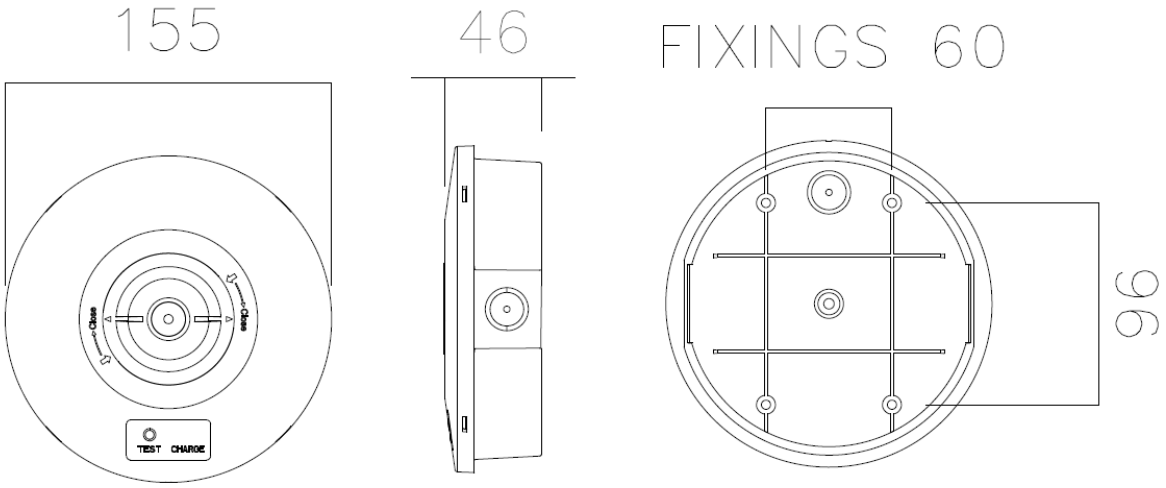
LUMINAIRE INSTALLATION:



Part Code:- NSC/BK/SURF/RD/NM3

Remove the front cover molding by releasing the four clips on the side wall using a flat head screwdriver.

31. Prepare the surface & mains supply cable.
32. Route the mains supply cable through the hole in the base & then screw fix the base to the mounting surface using the four fixing points provided at 60mm centers.
33. Route the mains supply cable to the terminal block.
34. Connect the battery pack to the PCB by connecting the 2-pole female socket on the battery wires to the larger 3-pole male plug mounted on the PCB. Ensure correct orientation.
35. Enter the “Commission Date” in the appropriate place on the battery pack label.
36. Offer the front cover to the base & connect:
    g. The 2-pole connector to the 2-pole plug on the main PCB labeled “LED-/ LED+”, ensuring correct orientation.
    h. The 5-pole test connector to the matching plug on the PCB
37. Refit the front cover molding by snap fixing over the four clips & ensuring there are no wires trapped. Note! There is a location peg that needs to align with a recess in the front cover molding.
38. Reconnect the power supply & check the green LED charge indicator illuminates.
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OPERATION / MAINTENANCE:

7. Nominal battery life is designed to be at least 4 years. The battery should be replaced when it is no longer able to provide its 3 hours of rated duration.

8. This luminaire MUST be disconnected before the circuit it is installed on is subjected to any high voltage or insulation resistance testing, otherwise irreparable damage will occur to luminaire components.
9. Ensure cleanliness of luminaires is maintained so as not to affect performance.

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 it is safe to do so) or by way of a test key switch if fitted into the circuit.
- Do this for a period of time sufficient 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 Testing Logbook.