

INSTALLATION INSTRUCTIONS

Vanguard Site Emergency Bulkhead 3Hr IP66 Selectable ST/M
 Product Codes: **VANS/3Y/ST**

Safety Warning



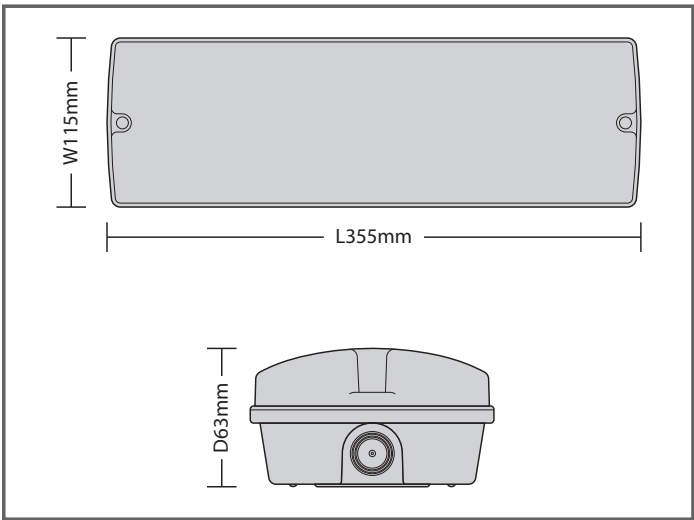
- The installation should be carried out by a qualified electrician in compliance with the current edition of the IEE Wiring Regulations.
- Prior to installation, carry out the necessary risk assessment considering the people who could be at risk, the level of risk and the precautions required to control the risk
- Ensure that the circuit supply is isolated either by the circuit supply fuse being removed or the applicable circuit breaker being turned off before installation or any maintenance.
- Check the total load on the circuit ensuring the luminaire does not exceed the rating of the circuit cable, fuse or circuit breaker.
- Long-term use and voltage fluctuations can reduce the life span of the fitting.
- If the fitting incorporates control gear, ensure careful sizing to avoid instances of nuisance tripping of the protective device used in the installation.
- Follow the provided installation instructions, using the fixings supplied or recommended.
- Keep out of reach of children.



Specification

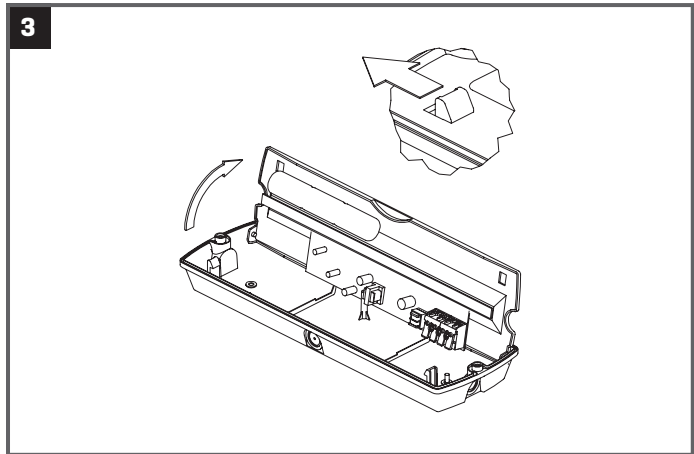
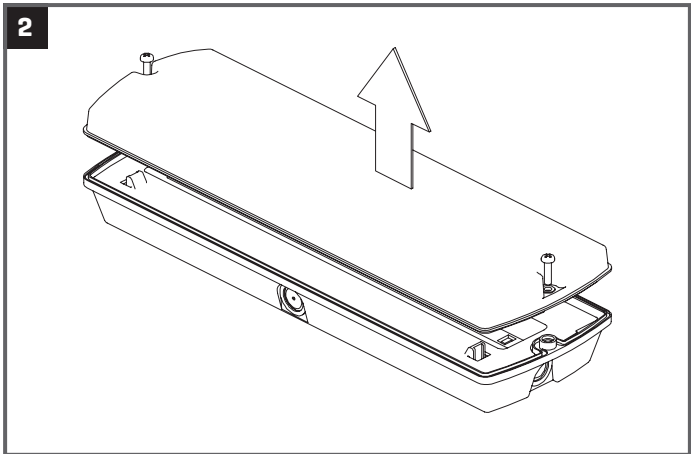
Box Contents -
 1 x Maintained/Non-Maintained 110V emergency Bulkhead
 1 x Self-Adhesive Exit Legend

| | |
|-----------------------------|----------------------------------|
| Dimensions: | L: 355 x W: 115 x D: 63mm |
| Material: | Body: ABS Lens: Polycarbonate |
| Colour Temperature: | 6500K |
| LED Lifetime: | L70B50 36,000 Hrs |
| IP Rating: | IP66 |
| IK Rating: | IK08 |
| Working Temperature: | 0°C to 45°C |
| Warranty: | 5 Years |

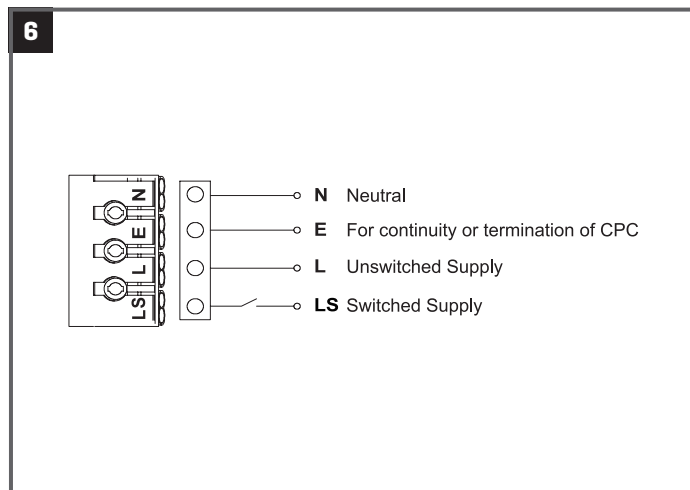
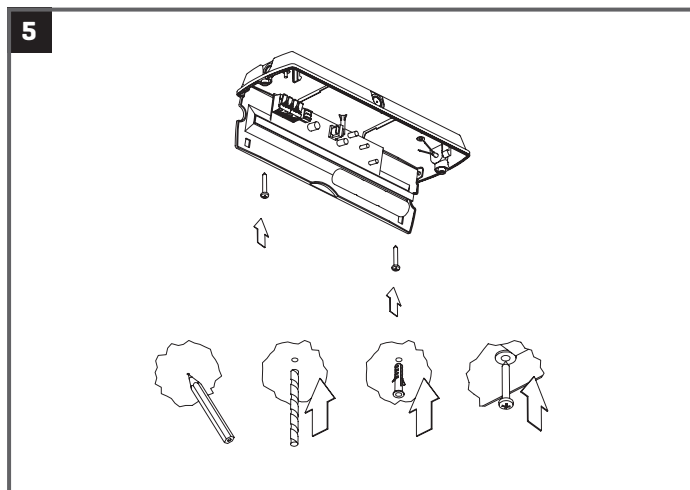


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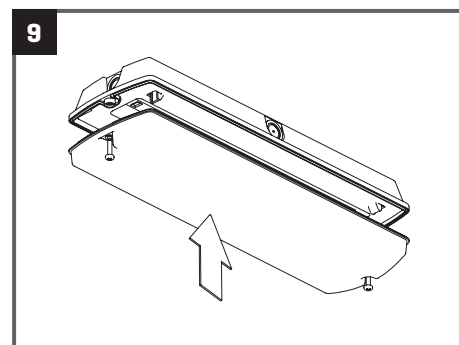
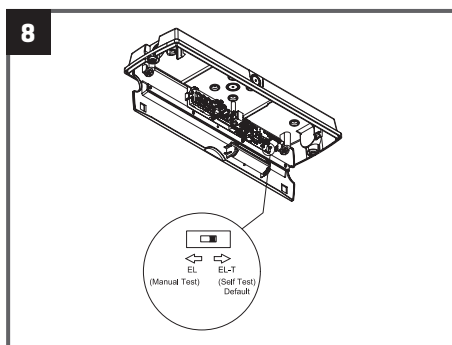
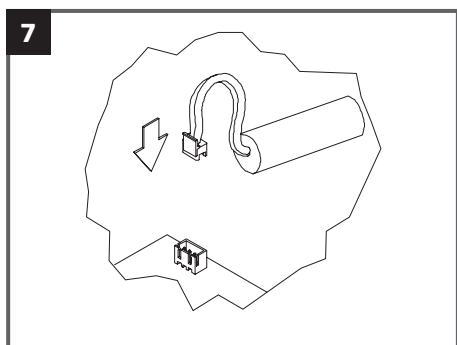
1. Isolate the mains supply before carrying out any installation or maintenance work.
2. Remove the diffuser/lens from the fitting by loosening the screws at either end.
3. Access the terminal block & batteries by pushing the 2 retaining clips outwards and rotate the gear tray on its hinge as shown.



4. Drill out the preferred fixing points and cable entry point.
5. Fix the body to the ceiling or wall in the desired location, passing the supply cable through the cable entry point. Ensure that a suitable cable gland is used to maintain the IP66 rating.
6. Connect the supply cable to the terminal block. An unswitched supply must be connected to the Live (L) and Neutral (N) terminals. The fitting can be operated.
 - A. For Maintained operation, connect supply as above, leaving the link wire pre-fitted between the Live (L) and Switched Live (LS) terminals in place.
 - B. For Non-Maintained operation, connect supply as above and remove the link wire between the Live (L) and Switched Live (LS) terminals.
 - C. For Switched Maintained operation, connect supply as above plus connect a switched live supply to the terminal marked LS. Remove the link wire between the Live (L) and Switched Live (LS) terminals.



7. Plug the cable from the battery into the white connector on the PCB.
8. As standard the Vanguard will be supplied in self test operation, for manual test operation select EL using the switch shown below.
9. Hinge the gear tray back into position and press firmly to re-engage the retaining clips.
10. Replace the diffuser/lens, making sure the screws are fully tightened to ensure a good seal.
11. Restore the mains supply and check that the green LED indicator is illuminated and that the luminaire operates correctly.
12. Leave the power connected for 24-36 hours to fully charge the batteries and then carry out an emergency commissioning test.



Self Test Operation

VANS/3Y/ST will be supplied preset to EL-T for stand alone automatic self test operation.

After the power supply has been connected and the batteries have charged for 24 hours, the fitting will perform the following tests automatically, which meet and exceed legal requirements. The status during and after the tests is provided by a bi-colour LED Indicator

Initial Duration Test

This is carried out 24 hours after the fitting has been connected to the power supply, provided the supply is uninterrupted and the batteries have been charging for this period. This test lasts for the rated duration of the luminaire, 3 hours.

Function Test

This test is carried out every week for 5 seconds, checking the functionality of the emergency module, batteries and LED module.

Duration Test

This is carried out every half year, on one day within the 175th day to the 195th day. The test lasts for the rated duration of the luminaire, 3 hours.

NOTES:









The timing function is accurate to within $\pm 75s$ per week. Timing is retained during periods of mains failure or interruption for up to 7 days.

Tests will not be performed when the mains supply is disconnected

When there is a lamp failure at non-maintained mode, the indicator remains green but will turn red and be slow flashing after the failure is detected in weekly function test.

System Status Indication

The system status, including testing and any faults is provided by a bi-colour LED indicator on the fitting. Status is provided as follows:

| LED Colour | Status | Flash Rate On Time | Flash Rate Off Time | Details |
|------------|---|--------------------|---------------------|---|
| Green |  | Permanent On | - | Normal operation - Battery is charging |
| |  | Slow Flash | 1s | 3 hr duration test in progress |
| |  | Fast Flash | 0.2s | 5s function test in progress |
| |  | Flash 3 Times only | 0.5s | Self test timer reset |
| Red |  | Permanent On | - | Battery charge failure |
| |  | Slow Flash | 1s | LED module failure |
| |  | Fast Flash | 0.2s | Battery duration failure |
| Off |  | Off | - | System in emergency mode. Mains disconnected from battery, or mains failure |

Test Button

The fitting has a test button, which can be used to perform the following functions:

Press for < 2s – Simulate emergency mode

Press for 3-5s – Manually start a duration test. Abort test by pressing the button for 1-2s

Press for 5-8s – Manually start a 60s function test. Abort test by pressing the button for 1-2s

Press for > 10s – Timer reset

Battery Replacement

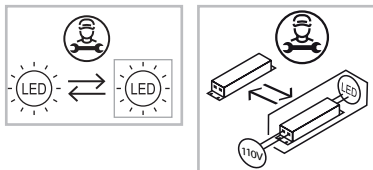
1. Isolate the mains supply and remove the front cover.
2. Unplug the battery lead from the circuit board.
3. Write the current date on the new battery pack.
4. Fit the new battery pack.
5. Plug the battery back into the circuit board.
6. Replace the front cover, restore the power and allow to charge for 24 hours. Then carry out a full duration test.
7. Self Test Version Only – After restoring the power press the test button for >10s to reset the timer and allow to charge for 24 hours.
8. Self Test Version Only – The fitting will carry out an automatic duration test after 24 hours. Check the indicator status after the test for normal operation

Warranty

This product is guaranteed for a period of 5 years from the date of purchase. The warranty is invalid in the case of improper use, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations (BS7671). The warranty is also invalidated if the luminaire has been insulation tested. Should this product fail during the warranty period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

Maintenance

- This fitting will require routine cleaning if used in adverse (dust, paint, welding, oils etc) environments. Do not use solvents, aggressive detergents or abrasives.
- The light source & driver in this luminaire can be quickly and easily replaced at end of life. This should be carried out by a competent person. Contact Red Arrow for details of replacements.



- When this fitting comes to the end of its life or you choose to replace it, please do not dispose of it with your normal waste. Please recycle where the facilities exist, check with your local authority for suitable options.

INS_SITE_0026_VANS-3Y-ST_V3

Testing (Emergency Versions)

The emergency lighting must be tested and inspected regularly in accordance with local codes of practice.

NOTE: For safety reasons tests should be carried out preceeding time of low risk, to allow for battery recharge.

The minimum recommended test schedule is as follows:

Commissioning - After installation, allow 24 hours to ensure full battery charge, and then interrupt the supply; check after 3 hours that the light is still illuminated.

- Daily - Check that the charge indicator LED is working.
- Monthly - Interrupt the power supply for a period sufficient to ensure each light is illuminated. At the end of the test, restore the supply and check the indicator is illuminated.
- Annually - Interrupt the supply as in 2, but for the full rated duration. Ensure the light is illuminated at the end of the rated duration. Restore the supply and check the indicator is illuminated.
- Record the date and result of each test, attending to any maintenance required in the event of a test failure.

Luminaire Location

Date Installed

Date Commisioned

| Month | Test | Year 1 | | | Year 2 | | | Year 3 | | |
|-------|---------------|--------|-----------------|------|--------|-----------------|------|--------|-----------------|------|
| | | Signed | Result / Action | Date | Signed | Result / Action | Date | Signed | Result / Action | Date |
| 1 | Functional | | | | | | | | | |
| 2 | Functional | | | | | | | | | |
| 3 | Functional | | | | | | | | | |
| 4 | Functional | | | | | | | | | |
| 5 | Functional | | | | | | | | | |
| 6 | Functional | | | | | | | | | |
| 7 | Functional | | | | | | | | | |
| 8 | Functional | | | | | | | | | |
| 9 | Functional | | | | | | | | | |
| 10 | Functional | | | | | | | | | |
| 11 | Functional | | | | | | | | | |
| 12 | Full Duration | | | | | | | | | |