

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.

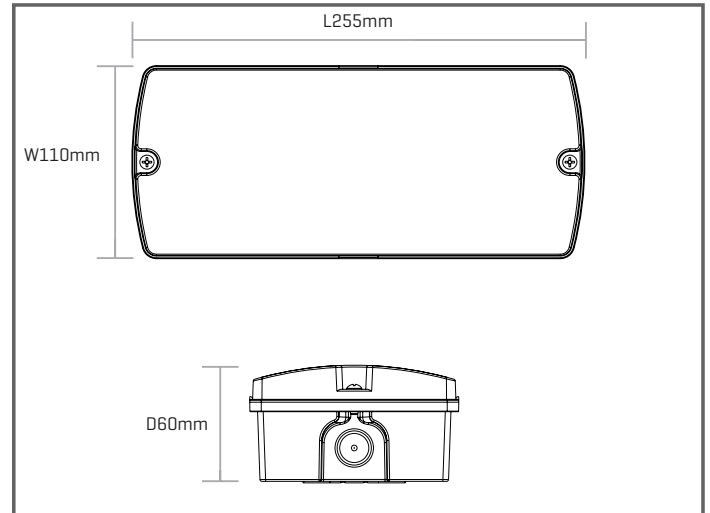


Specification

Box Contents -

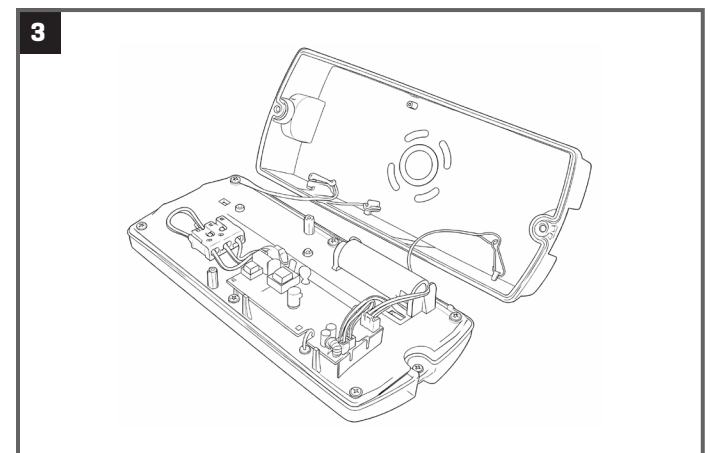
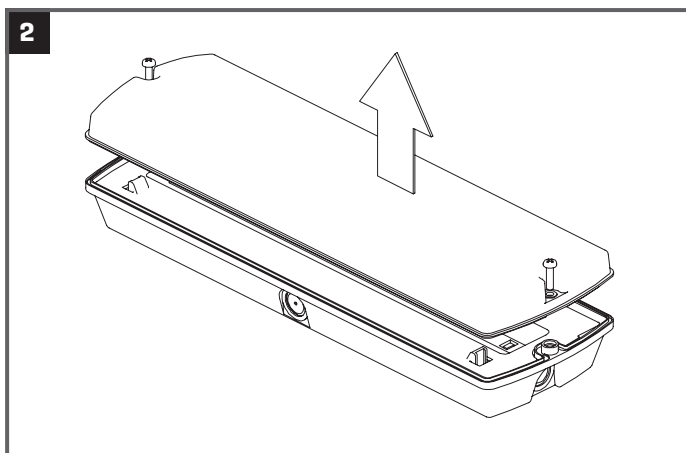
1 x Maintained/Non-Maintained 230V Emergency Bulkhead
1 x Self-Adhesive Exit Legend

Dimensions:	L: 255 x W: 110 x D: 60mm
Material:	Body: ABS Lens: Polycarbonate
Colour Temperature:	6500K
LED Lifetime:	L80B50 50,000 Hrs
IP Rating:	IP65
IK Rating:	IK08
Working Temperature:	0°C to 45°C
Warranty:	5 Years

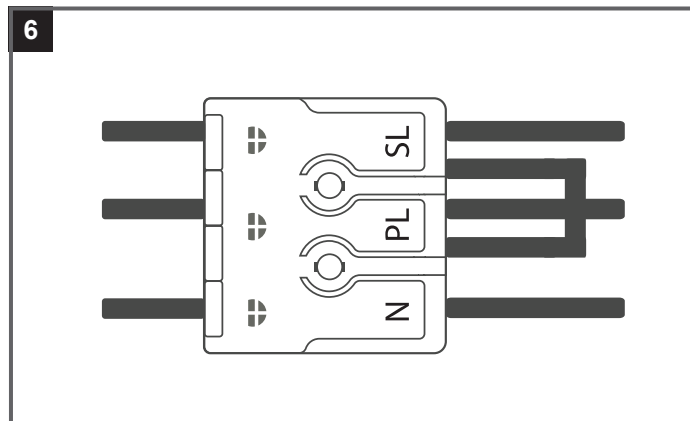
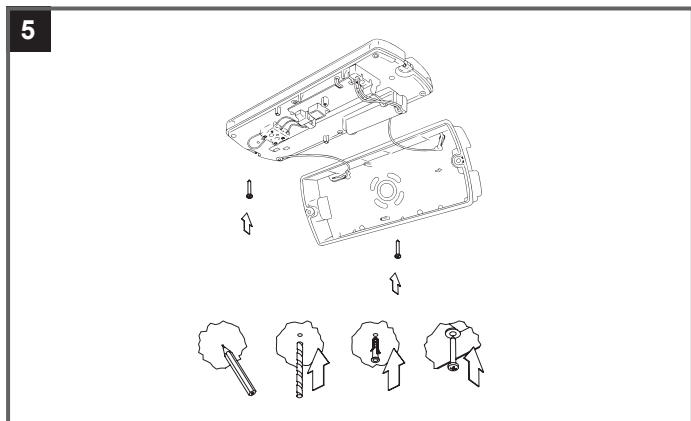


Installation Instructions

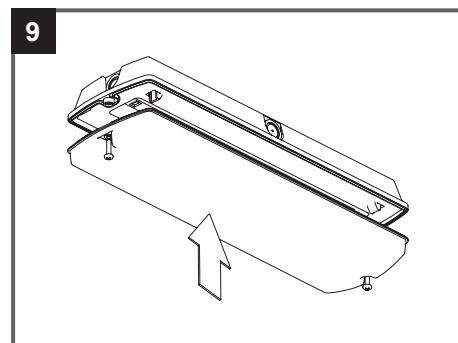
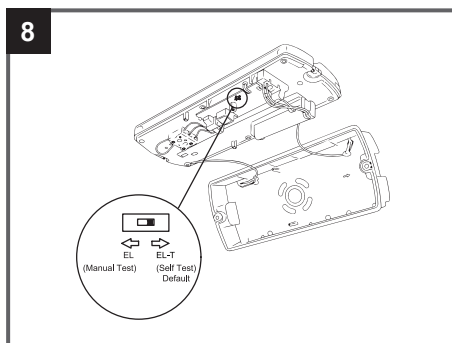
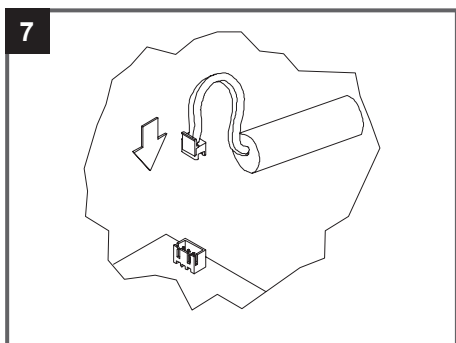
1. Isolate the mains supply before carrying out any installation or maintenance work.
2. Remove the diffuser/lens from the fitting by loosening the screws at either end.
3. Access the terminal block & batteries by allowing the lens and gear tray to fall forwards on the retaining straps as shown.



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 IP65 rating.
6. Connect the supply cable to the terminal block. An unswitched supply must be connected to the Live (PL) 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 (PL) and Switched Live (SL) terminals in place.
 - B. For Non-Maintained operation, connect supply as above and remove the link wire between the Live (PL) and Switched Live (SL) terminals.
 - C. For Switched Maintained operation, connect supply as above plus connect a switched live supply to the terminal marked SL. Remove the link wire between the Live (PL) and Switched Live (SL) 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. Replace the diffuser/lens, making sure the screws are fully tightened to ensure a good seal.
10. Restore the mains supply and check that the green LED indicator is illuminated and that the luminaire operates correctly.
11. Leave the power connected for 24-36 hours to fully charge the batteries and then carry out an emergency commissioning test.



Testing and Commissioning.

VANMINI/3/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 test

- When power supply is first connected the emergency kit will carry out a 3-second functional test automatically.
- In case of a failure, the LED will turn permanent red. Otherwise, the charge mode will start.

One-time test

- After the initial test the emergency kit will fully charge the batteries for a period of 24 hours. (Ensure the power is not disconnected during this 24 hour charge period, If power is lost the battery charge cycle will restart and another 24 hour period will be required)
- Then a one-time 3 hour duration test will be performed.

NOTE:

It is recommended to attend the installation after the 3 hour duration test is performed to check the LED Indicator status and complete the commissioning certificate in accordance with BS EN 5266, Without a valid commissioning certificate any warranty claims may be voided.

Functional test

- Refers to charging, discharging and the functioning of load.
- This test will be performed for 10 seconds automatically every 30 calendar days.

Duration test

- Refers to the test of batteries capacity.
- This test will be performed at random intervals between every 170 - 180 calendar days.
(This is to prevent all luminaries from performing a duration test at the same time)







Rest Mode

Rest mode can be initiated during the emergency mode by pressing test switch longer than 3 seconds.
The rest mode will be exited automatically after reconnect AC mains.

Note: If mains supply is off during self test period, emergency conversion module would terminate self test immediately and go into the emergency mode.
Self-test is performed in line with EN 62034.

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:

State	Colour	LED Indicator	Status	Comment
	Green	Permanent Green	Charging/Fully Charged	AC Mode
		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 under way	
	Red	Permanent Red	Load Failure	Open circuit / Short circuit LED failure (Emergency mode)
		Slow Flashing Red (1 sec on, 1 sec off)	Battery Failure	Battery failed the duration test or function test / No battery
	Off	Green and Red off	DC Mode	Battery operation (Emergency mode)

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

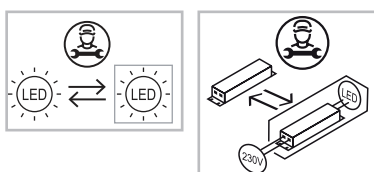
- Isolate the mains supply and remove the front cover.
- Unplug the battery lead from the circuit board.
- Write the current date on the new battery pack.
- Fit the new battery pack.
- Plug the battery back into the circuit board.
- Replace the front cover, restore the power and allow to charge for 24 hours. Then carry out a full duration test.
- 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.
- 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 has a warrant 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.

INSTALLATION INSTRUCTIONS

Emergency Testing Sheet

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.
 1. Daily - Check that the charge indicator LED is working.
 2. 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.
 3. 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.
 4. 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									