

## ERLEDBT

### 3 Hour Maintained LED Emergency Light Fitting c/w Automatic Self-Test Function

These instructions should be read carefully and retained for further reference and maintenance.

#### IMPORTANT NOTE:

The luminaire must be installed by a skilled electrician and to the most current electrical wiring and building regulations

This product **MUST** be earthed (⊕) and **NOT** be subject to an electrical insulation test (500/1000v) which will not be covered by the warranty

This luminaire is NOT suitable to be used with dimmer switches

The luminaire should not be modified, if modified this will invalidate any warranties and Firesafe will not be liable for any damages caused

The person carrying out the installation is to check and verify that the total load on the circuit, including the rating of the cable, fuse and/or circuit breaker is not exceeded

It is the responsibility of the installer to consider any fire risks and breach in any fire protection barriers or partitions, and take the appropriate precautions

Emergency lighting should be installed and maintained in accordance with BS5266 and BS EN50172

#### INSTALLATION

1. Ensure the mains supply is isolated
2. Remove the diffuser from the body by removing the two diffuser screws
3. Release the hinged gear tray by pushing the sprung retaining clips to release the gear tray
4. For non-maintained operation a permanent 230v AC supply is required to the live (L), (⊕) Earth and neutral (N) terminals on the PCB
5. For maintained operation for continuous illumination this can be achieved by connecting a link between L and L1 (link supplied) or have a switch live connection through a remote switch to the L1 terminal on the PCB
6. Ensure a gland or grommet is used to maintain the IP rating of the luminaire and that ALL electrical connections are tight with no loose strands
7. Plug the battery lead into the connector on the PCB and close the gear tray ensuring no cables are trapped, ensure the gear tray retaining clips have secured the gear tray
8. Refit the diffuser using the two screws
9. Restore the AC mains supply, the green charge LED should illuminate
10. Allow 24 hours to charge the batteries and record the installation date in the log book
11. After a 24 hour charge period test the luminaire for a full 3 hour duration by removing the 230v AC supply and record the date of the commissioning on the battery pack inside the luminaire and also in the log book
12. Subsequent testing should be carried out in accordance with the British/European standards and recorded in the log book

### Automatic Self-Test Function

The luminaire has an integral automatic self-test function.

When the luminaire is connected to a 230v AC supply the luminaire will perform an automatic test, monthly and annually. The first monthly test will be performed approximately between 16<sup>th</sup> to 30<sup>th</sup> day and the annual test will be between 200<sup>th</sup> to 360<sup>th</sup> day from initial power on.

After the first annual test, the test routine will then be scheduled for every 30 days and every 360 day for the monthly and annual tests. The luminaire will retain the testing schedule for approximately 7 days without a 230v AC supply (the internal battery still has to be connected).

### Automatic Daily Test

The luminaire checks daily if the battery is connected and that AC mains supply is present, if both are present the GREEN LED will be illuminated. If the battery is not connected or there is an issue with the battery the LED will flash Red once every three seconds. If there is no 230v AC supply present the LED indicator will be extinguished and the luminaire will go in to emergency mode.

### Monthly /Annual Test

The luminaire performs an automatic 10 minutes duration self-test every month and an annual test for the full 3 hours duration. During the test the LED will be flashing RED quickly to indicate the fitting is in test for the duration of the test, if the test has been completed and satisfactorily then the LED will return to a constant Green state.

If during the test there is an issue with the light output, then the LED will flash Red twice every three seconds. If fitting does not complete the required emergency duration then the LED will flash Red three times every three seconds.

### Manual Test

The luminaire has an integral test button on the PCB which has two functions;

1. When the button is pressed once, the schedule of self-test will be reset (i.e. from the 1<sup>st</sup> day installed).
2. When the button is pressed for three seconds, the fitting will enter a self-test mode for 5 minutes with the same LED color indication as the monthly/annual test (red flashing quickly).

### LED Indicator Status

Green LED On:	AC mains supply and battery connected
LED Off:	No AC supply present
Red Flash <b>once</b> every 3 seconds:	Issue with the battery during the daily test
Red Flash very quickly:	Luminaire in manual/monthly/annual test mode
Red Flash <b>twice</b> every 3 seconds:	Fitting failed test - Issue with the light output during auto-test
Red Flash <b>three</b> every 3 seconds:	Fitting failed test – the battery duration was not achieved during auto-test
Failed Test / Reset:	After a failed test and the fault has been rectified, the test button will need to be pressed for 3 seconds to activate a self-test for 5 minutes or remove the 230v AC supply to reset the fault and LED indicator status back to green.

### Maintenance

Repairs should only be carried out by suitably qualified person

Regular cleaning of the luminaire should be carried out at regular intervals not only to ensure good optical performance but also ensure that dirt does not accumulate to such an extent as to impair the electrical or thermal safety of the fitting, this should be done with a soft damp cloth, do not use any chemicals or abrasives.

Servicing should only be carried out after the fitting has been made electrically safe and the battery disconnected

**Light Source Maintenance:** the light source of this luminaire is not replaceable; in case the light source need to be replaced (e.g. at the end of its life), the whole luminaire shall be replaced

**TESTING**

Ensure the luminaires are tested in accordance with 5266-8:2004 / BS EN 50172:2004

**Daily:** Ensure the green charge LED is illuminated

**Monthly:** Check the LED Indicator Status, if Green then the unit has passed the monthly test. If the LED is flashing 2 or 3 times every 3 seconds then then luminaire has failed and will require an engineer to investigate, record the result in the log book

**Annually:** Repeat the monthly inspection and record the result in the log book. If the LED is flashing 2 or 3 times every 3 seconds then then luminaire has failed and will require an engineer to investigate.

**Defects:** Any defects or failures should be noted and recorded in the log book and actioned by a competent person as soon as possible

INSTALLATION / TEST RECORDS		Location:				Part No:			
		Installed By				Date:			
		Comissioned By:				Date:			
MONTH	TEST	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Short								
2	Short								
3	Short								
4	Short								
5	Short								
6	Short								
7	Short								
8	Short								
9	Short								
10	Short								
11	Short								
12	Full Duraiton								

**Technical Specification:**

Voltage:	230v AC 50Hz
Lamp:	8 pcs 5730 LEDs
Wattage:	6W
Colour Temp:	6500K
Lumen Output Mains:	300lm
Battery:	3.6V 800mA Ni-Cd
Class:	1
Emergency Duration:	3 Hours
Recharge Time:	24 hours
Auto test:	Every month 10 minutes test duration, annually 3 hours test duration
Temp Range:	0°C - 40°C
Dimensions:	(L)352, (W)110, (H)64mm
Weight:	526g
IP:	IP65

**Warranty:**

This product is covered by an extended warranty for 2 years from date of purchase.

Batteries are regarded as a consumable item, and as such, are not covered by the Extended Warranty periods and are only covered by a 1 year warranty.

The extended warranty is available following installation in the UK or Ireland by a competent person in accordance with the current building and IEE wiring regulations.

For full terms and conditions in regards to our extended warranty please refer to the website.

**Environment:**

Please DO NOT dispose of electrical items or packaging as unsorted waste, use the recycling facilities provided by your local authorities.

Due to our policy of continuous improvement we reserve the right to change specification without prior notice. Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by Firesafe for any misinterpretation of these instructions.

**LIGHTSAFE**

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