



## PRODUCT SPECIFICATION

---

OEZ2



---

## INTRODUCTION

The OEZ2 is suitable for surface mount installation on walls and ceilings and can be supplied without legend, with hanging blade or with adhesive legends all in ISO 7010 format. With an IP65 rating the OEZ2 is suitable for applications where protection from dirt, dust and water is required. The OEZ2 is available in standard, self test and autotest variants ensuring compatibility with a wide range of emergency testing systems. The OEZ2 incorporates side and conduit entry points for ease of installation.

UK CA	CE	IP65
----------	----	------

---

## APPLICATION

- Canteen
- Commercial / Offices
- Corridor
- Education
- Exterior
- Food Production
- Healthcare / Social Housing
- Hotel / Leisure
- Industrial / Manufacturing
- Kitchen
- Office
- Parking / Exterior
- Retail

- Stairwell
- Store Room
- Toilet
- Transport
- Warehousing

---

## SPECIFICATION

---

### CONSTRUCTION

- Housing: Injection moulded polycarbonate
- Finish: Matt white
- ISO 7010 or Euro Norm Legends with all directional arrow options.
- IP65

;

### ENVIRONMENTAL

- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

;

### EMERGENCY

- Available with optional standard, self test and autotest integral emergency with lithium batteries for extended warranty and lifetime.

;

### INSTALLATION

- Suitable for conduit installation
- Suitable for surface installation

;

---

## IMAGES

## PRODUCT IMAGES



OEZ 2



OEZ 2 with Legend



OEZ LED LL ISO7010



OEZ LED RL ISO7010

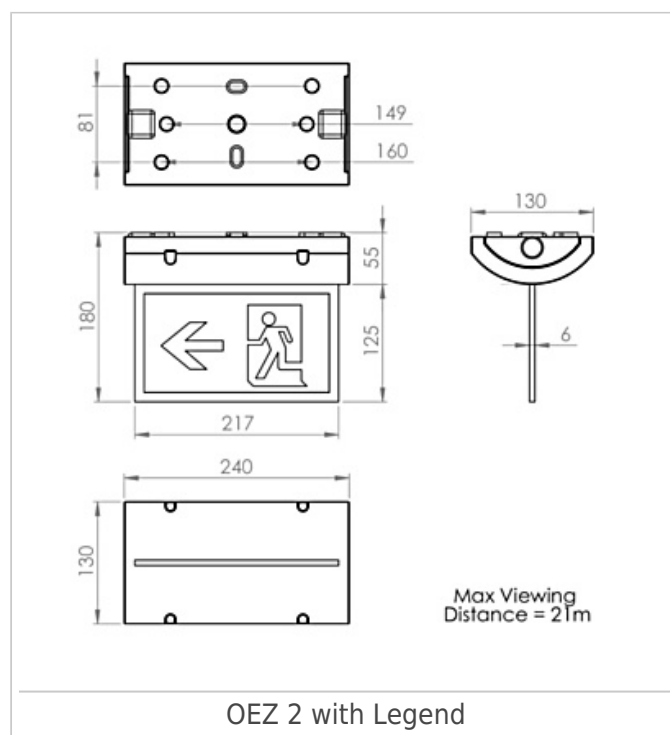
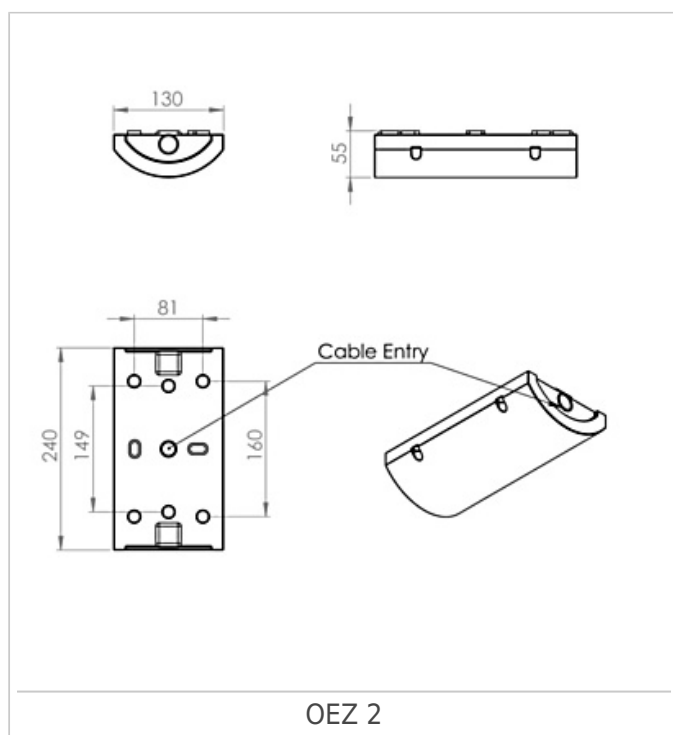


OEZ LED UL ISO7010



OEZ LED DL ISO7010

## TECHNICAL



## WARRANTY

At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

- Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.

- Emergency luminaires including AME LED, EXI LED, EXI3, EXI Track, HBE LED, HBE3, OAT2 LED, OEZ2 and Twinspot are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.
- Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.
- Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.
- LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RGBW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.
- LEDEX ranges are supplied with a three year replacement luminaire only warranty.
- The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday

to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

**If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.**

## ORDER CODES

### LUMINAIRE

Code	Description
OEZ2 M3 LE3 ATD	OEZ2, Maintained, Lithium Standard Emergency 3 Hour, Standard Diffuser
OEZ2 M3 LE3 ATS	OEZ2, Maintained, Lithium Standard Emergency 3 Hour, Legend Diffuser
OEZ2 M3 LS3 ATD	OEZ2, Maintained, Lithium Self Test Emergency 3 Hour, Standard Diffuser
OEZ2 M3 LS3 ATS	OEZ2, Maintained, Lithium Self Test Emergency 3 Hour, Legend Diffuser
OEZ2 M3 LA3 ATD	OEZ2, Maintained, Lithium Autotest Emergency 3 Hour, Standard Diffuser
OEZ2 M3 LA3 ATS	OEZ2, Maintained, Lithium Autotest Emergency 3 Hour, Legend Diffuser

### EMERGENCY

Code	Description
LE3	Lithium Standard Emergency 3 Hour
LS3	Lithium Selftest Emergency 3 Hour
LA3	Lithium Autotest Emergency 3 Hour
CB	Central Battery, Please Specify 110V or 230V when Ordering

### MISCELLANEOUS

Code	Description
LSF	Low Smoke Zero Halogen
OEZ2 DL ISO7010	OEZ2 Down Arrow ISO 7010 Legend, Double Sided
OEZ2 LLRL ISO7010	OEZ2 Left / Right Arrow ISO 7010 Legend, Double Sided
OEZ2 UL ISO7010	OEZ2 Up Arrow ISO 7010 Legend, Double Sided
OEZ2 DL ELK ISO7010	OEZ2 Down Arrow ISO 7010 Legend, Self Adhesive
OEZ2 LL ELK ISO7010	OEZ2 Left Arrow ISO 7010 Legend, Self Adhesive
OEZ2 RL ELK ISO7010	OEZ2 Right Arrow ISO 7010 Legend, Self Adhesive
OEZ2 UL ELK ISO7010	OEZ2 Up Arrow ISO 7010 Legend, Self Adhesive

## BR/M3 MAINTAINED EMERGENCY LIGHTING (& BR/230 MAINS ONLY)

230V ~ 50Hz; Class II; IP65

Please retain these instructions for future reference

### INTRODUCTION

OEZ2 LED bulkhead emergency luminaires are designed to be surface mounted and are for use both indoors and outdoors. They are available in mains only or 3 hour maintained emergency operation, with the maintained version having Self-test and DALI options.

### SPECIFICATION

Supply Voltage: 220 - 240V A.C, 50Hz

Supply Current: < 70mA

Nominal Power: 3W

Ambient temperature range: 0°C to 25°C

Environmental protection: IP65

Battery: 3.6V 1.5Ah NiCad

OEZ2 LED luminaires use long life white LED's as a non-user replaceable light source, so the light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

### INSTALLATION

The OEZ2 LED luminaire must be installed in accordance with current building and wiring regulations by a qualified person, and suitable tests on the completed luminaire must be carried out to ensure compliance to relevant standards.

1. Remove the diffuser from the body using the four crosshead screws.
2. Release gear tray by using a screwdriver and gently levering at the arrow marks, allowing the gear tray to hinge down.
3. Fix base to wall or ceiling either direct or via conduit box having cleared an access hole in the body for the cable.
4. If the housing is drilled for cable entry or mechanical fixing during installation it is the installer's duty to ensure that these entries are sealed to maintain the IP65 rating.
5. Wire up the luminaire in accordance with wiring regulations. An unswitched 240V A.C. supply must be connected to the Live, Earth (E) and Neutral (N) terminals on the PCB. On Maintained variants normal switched lighting can be provided by connecting a switched live.
6. Check that the battery lead and the LED leads are plugged into their appropriate connectors on PCB.
7. Hinge the gear tray back into the base and it will 'click' secure.
8. Refit diffuser and tighten screws carefully to ensure a good seal.
9. Check operation – restore A.C. supply. On emergency versions check the indicator LED is 'on'. Leave for 30 minutes, remove power and the LED's should illuminate for a few seconds.
10. Restore the A.C. supply and check LED's operate on mains and maintained versions.

NB: At end of life, product must be recycled. Any batteries should be removed and returned to the producer or an accredited recycling centre. Light sources should be removed and sent to a RECOLITE centre. The luminaire enclosure should be sent to a LUMICOM centre. **Do not incinerate or send to land fill.**

### OPERATION

The OEZ2 LED luminaire should be connected to the mains supply for a minimum of 24 hours before operating in emergency as the batteries need to be fully charged before they will provide their full rated duration. (NB DALI/Self-test luminaires have a self-commissioning mode which charges the battery, does a full duration test and then re-charges the battery).

### EMERGENCY OPERATION

NON-MAINTAINED - LEDs normally **off and battery charging (LED indicator 'on')** when the A.C. supply is healthy. Solid state circuitry automatically switches the LEDs on when the A.C. supply is interrupted.

MAINTAINED - The LEDs are normally on (may be switched using switched supply). **The battery is charging (LED indicator 'on'). LEDs will switch on or remain on if A.C. supply is interrupted.**

MONITORING - **Green LED indicator normally continuously 'on'.** Indicator goes out if A.C. supply or charger fails.



# OEZ2 LED Installation Instructions & Test Procedures

## FAULT FINDING AND CORRECTIVE ACTION:

MONITORING LED (GREEN) NOT ILLUMINATED - A.C. supply is unhealthy. Battery not connected. Charger failed.

UNIT NOT MEETING REQUIRED EMERGENCY PERIOD - May need cycling: discharge then recharge for full 24 hours. Retest luminaire. Battery pack may need replacing if emergency duration still not met.

LEDs NOT FULLY ILLUMINATED - If the light output is of abnormally low level, either the battery pack or (less likely) the printed circuit board needs replacing.

## **TESTING**

### RECOMMENDED ROUTINE TEST PROCEDURE:

The following test is designed to ensure the continued protection of your premises and occupants. Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing, all tests should whenever possible, be undertaken at times of least risk, e.g. during daylight hours.

ONCE A DAY - Visual inspection of battery charge LED.

ONCE A MONTH - Each unit should be energised from its battery for about 15 minutes by simulation of a failure of the normal lighting supply to ensure the light source operates in the emergency condition.

ONCE A YEAR - Each unit should be energised from its battery for the full rated **duration**. **Inspect the LED's and if any of them have failed the whole unit will need to be replaced. The LED's will probably continue to operate for approximately 10 years** but batteries will require replacement every five years.

NB: Failure to achieve rated duration after the corresponding recharge period indicates that the batteries have reached the end of their useful life and they should be replaced immediately. Batteries have a typical life expectancy of four to five years. Old batteries should be handled by specialist waste disposal experts, and under no circumstances should they be pierced or incinerated.

## **DALI/SELF-TEST LUMINAIRES ONLY**

The luminaire will adopt a self-test (automatic test) mode if it is not connected to a DALI bus, or the DALI communication is missing. On completion of the self-commissioning check, the self-test program starts with the first function and duration tests. These tests will be carried out after randomly generated delay times. The initial function test randomly generated between 0 and 7 days, and the initial duration test randomly generated between 4 and 52 weeks. Subsequent function and duration tests then randomly occur at intervals of 7 days and 52 weeks respectively.

DALI/Self-test luminaires will respond to DALI commands from a suitable control unit. These commands can be used to initiate function and duration tests at prescribed times. The status flags for the luminaire are set after a test, for reporting and logging of the results.

DALI /Self-test luminaire local bi-colour LED indicator status

Green LED	Permanently on	System OK/mains operation mode
	Slow flash	Duration test/commissioning
	Fast flash	Function test
Red LED	Permanently on	LED luminaire fault
	Slow flash	Battery/test failure
	Fast flash	Battery charging failure

**Slow flash** – a flash every 2 seconds. **Fast flash** – a flash every 0.5 second