



# Product Specification

OAT2



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## INTRODUCTION

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The OAT2 is a recessed LED luminaire with reeded diffuser with optional hanging blade where exit legends are required. The OAT2 is supplied with lithium batteries offering extended lifetime and warranty and is available in standard, self test and autotest variants for compatibility with a wide range of emergency test systems. The OAT Wireless offers compatibility with our Reacta-Link system for automated testing and reporting of test results and failures minimising the maintenance costs of your emergency installation.

**UK**  
**CA** CE IP20 IK10 without legend TM66 CEAM Score: 1.9

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## APPLICATION

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- Canteen
- Commercial & Offices
- Corridor
- Education
- Food Production
- Healthcare & Social Housing
- Hotel & Leisure
- Industrial & Manufacturing
- Kitchen
- Office
- Retail
- Stairwell
- Store Room
- Toilet
- Transport
- Warehousing

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## SPECIFICATION

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### CONSTRUCTION

- Housing: Injection moulded polycarbonate
- Finish: Matt white
- ISO 7010 or Euro Norm Legends with all directional arrow options.
- IP20

### ENVIRONMENTAL

- Powered by European branded drivers.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- 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 plasterboard installation
- Suitable for mineral fibre ceiling tile installation

## IMAGES

### PRODUCT IMAGES



OAT2 With Legend



OAT2 Less Legend



OAT LED LL ISO7010



OAT LED RL ISO7010

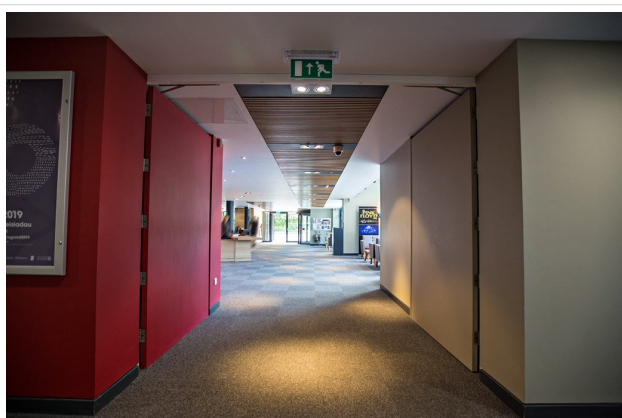


OAT LED UL ISO7010

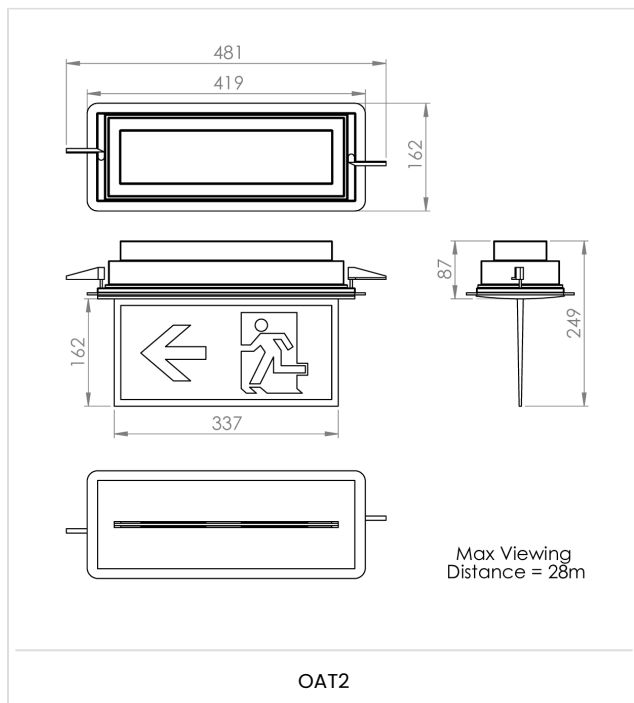


OAT LED DL ISO7010

## PROJECT IMAGES



The Galeri, Caernarfon using the OAT2 LED

**TECHNICAL**

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## WARRANTY

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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 AME2, EXI LED, EXI3, HBE3, HBE4, OAT2 LED 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.**

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**ORDER CODES**

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**LUMINAIRE**

| Code            | Description                                                            | Power |
|-----------------|------------------------------------------------------------------------|-------|
| OAT2 M3 LE3 ATD | OAT2, Maintained, Lithium Standard Emergency 3 Hour, Standard Diffuser | 3.0W  |
| OAT2 M3 LE3 ATS | OAT2, Maintained, Lithium Standard Emergency 3 Hour, Legend Diffuser   | 3.0W  |
| OAT2 M3 LS3 ATD | OAT2, Maintained, Lithium Selftest Emergency 3 Hour, Standard Diffuser | 3.0W  |
| OAT2 M3 LS3 ATS | OAT2, Maintained, Lithium Selftest Emergency 3 Hour, Legend Diffuser   | 3.0W  |
| OAT2 M3 LA3 ATD | OAT2, Maintained, Lithium Autotest Emergency 3 Hour, Standard Diffuser | 3.0W  |
| OAT2 M3 LA3 ATS | OAT2, Maintained, Lithium Autotest Emergency 3 Hour, Legend Diffuser   | 3.0W  |

All products are supplied with a 5 year battery warranty

**MISCELLANEOUS**

| Code              | Description                         |
|-------------------|-------------------------------------|
| OAT2 DL ISO7010   | OAT2 Down Legend, ISO7010 Format    |
| OAT2 UL ISO7010   | OAT2 Up Legend, ISO7010 Format      |
| OAT2 LLRL ISO7010 | OAT2 Right Legend, ISO7010 Format   |
| OAT2 DL           | OAT2 Down Legend, Euro Norm Format  |
| OAT2 UL           | OAT2 Up Legend, Euro Norm Format    |
| OAT2 LLRL         | OAT2 Right Legend, Euro Norm Format |

Please note all legends are double sided, please specify ATS diffuser with legends.

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# OAT / OAT2 Installation

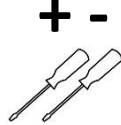
230-240V / 50-60Hz

Nominal Power: 3W

Ambient Temperature Range: 0°C to 25°C

Environmental Protection: IP65 (flush mounted), IP20 (exit sign)

Battery: 3.6 subC Nickel Cadmium 1500mAh



## WARNING - THIS LUMINAIRE MUST BE EARTHED

This luminaire has been tested and is manufactured to comply with BS EN 60598: specification for general requirements and tests. It should be installed by a suitably qualified person in accordance with IEE.

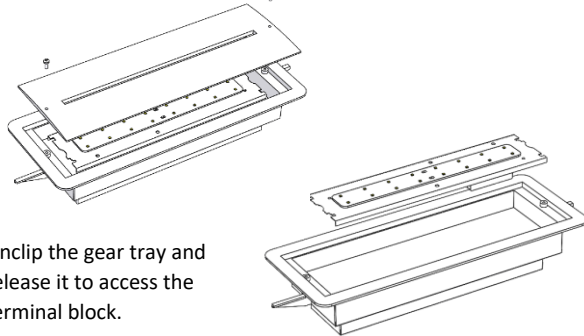
**CAUTION:** there is a potential risk of electric shock from the LED boards when the product is operational with the cover removed.

**NOTE:** INSTALLATION AND OPERATION OF THE LUMINAIRE BEYOND ITS SCOPE OF SUPPLY WILL INVALIDATE THE WARRANTY.

1.



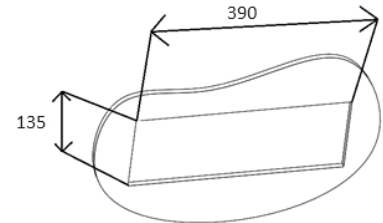
Remove the diffuser as shown.



Unclip the gear tray and release it to access the terminal block.

2.

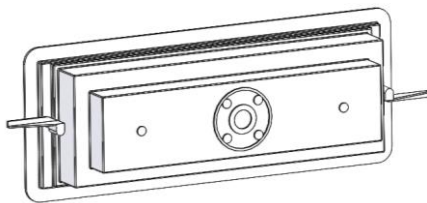
Create a cut-out in the ceiling and pass the luminaire through the hole.



Adjust the retaining arm screws until the luminaire is securely located.

3.

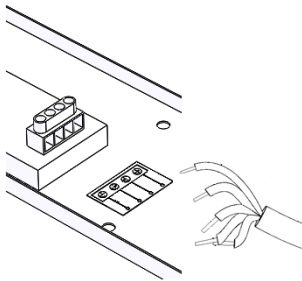
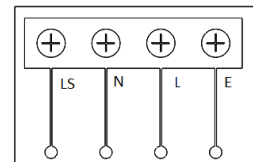
Remove a suitable cable entry knock-out and fix the luminaire to the mounting surface using screws.



Maintain the IP rating with suitable fixings.

4.

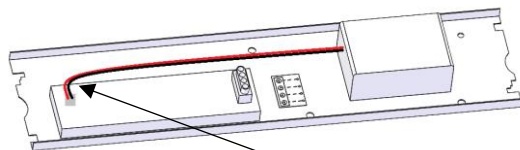
Bring the supply cables through the cable entry and connect.



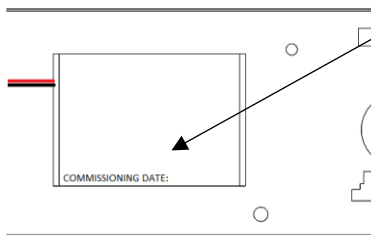
LS is for the switched maintained supply if required. L, N & E are for the permanent mains supply or the supply for the 230V central battery version.

Note: If LS is not connected the luminaire will operate in non-maintained mode.

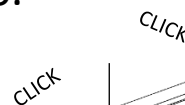
5.



Connect the battery lead and fill in the **commissioning date** on the battery label.

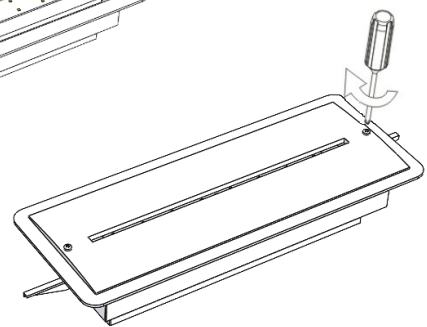


6.



Replace the gear tray. Ensure it 'clicks' back into place and refit the gear tray screw.

Replace the diffuser and screws.



## Testing:

BSS266 requires that all emergency lighting installations should be regularly tested and the results be recorded. An appropriate test schedule is detailed below which will cover the recommended minimum assessments:  
Monthly – luminaires should be put into emergency lighting operations for a period not exceeding one quarter of the rated duration. Each luminaire should be inspected for satisfactory LED starting and stable operation. When the normal mains supply is re-instated the maintained luminaire battery charge indicator should be on.  
Annually – the monthly test should be carried out, but the luminaire should be operated for its full rated duration.

## Note:

Ideally tests should be carried out at times where the building will not be reoccupied until the batteries have fully re-charged. Alternative methods can be used for automatic testing luminaires.  
Failure to achieve rated duration after the corresponding recharge period indicates that the batteries have reached the end of their useful life and should be replaced immediately.

## Operation:

The 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.  
(Note: DALI/Self-test luminaires have a self-commissioning mode which charges the battery, does a full duration and then re-charges the battery)

## Safety Information:

The luminaires feature double/reinforced insulation. 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) 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 being carried out after randomly generated delay times which will occur as shown below.  
Delay time to initial function test randomly generated value between 0 and 7 days.  
Delay time to initial duration tests occur after the test interval between 4 and 52 weeks.  
Subsequent function and duration tests occur after the test interval settings as follows:  
Function tests interval 7 days.  
Duration tests interval 52 weeks.  
DALI/Self-test luminaires will respond DAIL commands from a suitable control unit, and 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 loggings of the times.

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

## EMERGENCY LIGHTING TEST RECORD CARD

| LOCATION.... |       | Date Installed... |      |        |      | Installed by... |      |        |      |        |      |
|--------------|-------|-------------------|------|--------|------|-----------------|------|--------|------|--------|------|
| TEST         | MONTH | YEAR 1            |      | YEAR 2 |      | YEAR 3          |      | YEAR 4 |      | YEAR 5 |      |
|              |       | Signed            | Date | Signed | Date | Signed          | Date | Signed | Date | Signed | Date |
| 1            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 2            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 3            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 4            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 5            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 6            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 7            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 8            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 9            | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 10           | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 11           | FUNCT |                   |      |        |      |                 |      |        |      |        |      |
| 12           | 3HOUR |                   |      |        |      |                 |      |        |      |        |      |