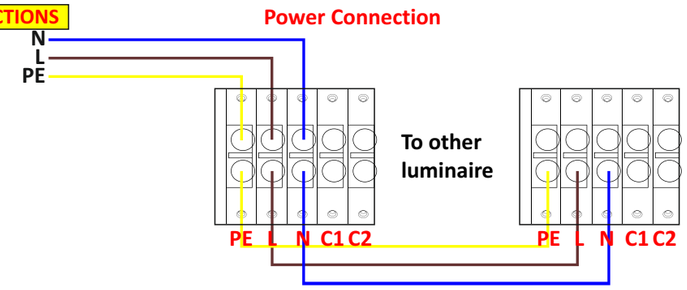
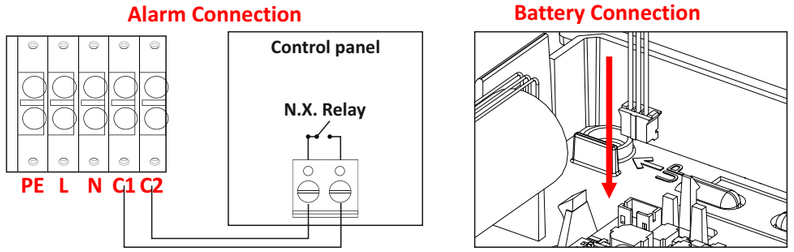
CONNECTIONS

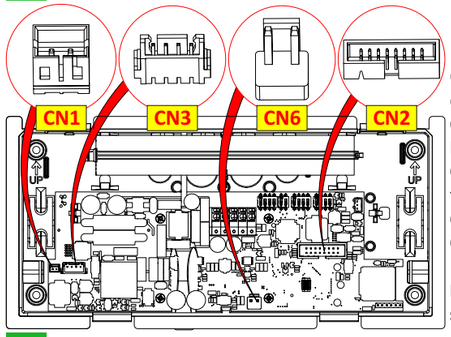


Pass the round cable through the pre-open holes. Connect the mains cable to the respective terminal block: L for live wire, N for neutral and PE for the ground wire. Power supply cables cross section should be 0.8 – 2.5 mm^2.



The luminaire has the capability to connect to any control panel that can send an alarm signal. Once the alarm is activated by the panel, the luminaire's icons change according to the user's selection from DS2. For this function to work, it is necessary to connect the terminal block of the panel to the terminal block of the luminaire at the C1 and C2 poles.

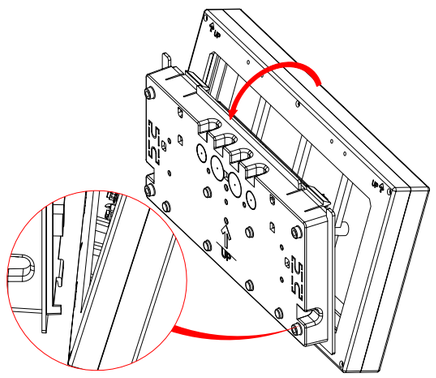
5



Connect the panel's cables to the appropriate connectors on the terminal block:
CN1 is used for the downlight located at the bottom of the luminaire.
CN3 is used for the indication LEDs and the test button.
CN6 is used to supply power to the panel.
CN2 is used for connecting the panel.

It is recommended to connect the power supply cable to the panel (CN6) last.

6



Carefully arrange the cables and refit the screen. Position the screen first into the two lower slots, then press it into place until the upper clips securely engage.
Attention! Ensure correct orientation during installation

7

Note! After finishing the installation you must power the luminaire for at least 24 hours in order to completely charge the battery. The rated autonomy duration can be achieved after that time.

Dynamic Series luminaires are suitable for wall or ceiling installation using a range of mounting accessories, available upon request.
Please scan the QR code to access all available mounting methods and compatible accessories.

Battery Replacement

The following procedure must be carried out only by a qualified person and after disconnecting the luminaire from the mains power supply.
1. Disassemble the luminaire, as shown in Step 1.
2. If required, carefully disconnect the screen cables by following the reverse order of Step 6.
3. Disconnect the battery and replace it with a new one of the same type and specifications, as shown in Step 5.
4. If required, reconnect the screen cables as shown in Step 6.
5. Reassemble the luminaire, as shown in Step 7.

NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:
X: Self contained **1:** Maintained/Non maintained operation (*)
A: Including test device **F:** Automatic test gear complying with IEC 61347-2-7 denoted EL-T
G: Internally illuminated safety sign
60: 1 hour duration **180:** 3 hours duration

X	1	A F G	6 0

(*) Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.
Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.

ATTENTION
The light source of this luminaire is not user replaceable. When the light source reaches its end of life the whole luminaire shall be replaced.

Technical Characteristics

MODELS	DN-1001 DN-1001/C	DN-1003 DN-1003/C
OPERATION VOLTAGE	220 - 240V AC / 50-60Hz	
MAXIMUM POWER CONSUMPTION	10.6W / 10.9VA	
SUPPLY CURRENT	49.2mA	
U-OUT	4.4V	
Prated	—	1.11W
Irated	—	396mA
MAX. OPERATION CIRCUIT VOLTAGE	4.4V	
WIRE CROSS SECTION	0.8 - 2.5mm^2	
MINIMUM POWER FACTOR	0.95	
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic Insulation	
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic Insulation	
BATTERY ($LiFePO_4$)	6.4V / 3000mAh	
BATTERY PROTECTION	Deep discharge and overcharge protection The control gear will recharge the battery normally after the test of 22.3	
MIN. MAX. DISCHARGE VOLTAGE	5.4 - 7V	
MIN. MAX. DISCHARGE CURRENT	550-875mA	
MIN. MAX. CHARGE CURRENT	190 -225mA	
TRICKLE CHARGE VOLTAGE/CURRENT	6.9V - 1.4mA	
MAX CHARGER VOLTAGE	7.4V	
INDICATIONS/CONTROLS	LED Fault, LED Charge / Test Button	
CHARGE TIME	23 hours	
MINIMUM DURATION	1 or 3 hours (according to the dip switch position DS3)	
DOWNLIGHT LIGHT SOURCE*	—	2 White Power LED
DOWNLIGHT LUMINOUS FLUX (MAINS)*	—	160lm
DOWNLIGHT LUMINOUS FLUX (EMERGENCY)*	—	1 hour: 210lm 3 hours: 135
DEGREES OF COVER PROTECTION	IP20	
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3	
OPERATION TEMPERATURE RANGE	5 - 40°C	
CONTROL GEAR MAX. TEMPERATURE: tc	60°C at D5	
RELATIVE HUMIDITY	Up to 95%	
CONSTRUCTION MATERIAL	ABS/PC, PC	
MATERIAL COLOR	White (RAL9010) or Anthracite (RAL7016) (/C)	
EXTERNAL DIMENSIONS (L x W x H)	277 x 150 x 56 mm	
WEIGHT	830gr	
GUARANTEE	3 years (10 years for the battery)	
CONTROL GEAR WITH AUTOMATIC TEST FUNCTION	EL-T	

LED Characteristics*

MANUFACTURER	Olympia Electronics S.A.
MODEL NUMBER	0107245
VOLTAGE RANGE	2.7V - 2.8V
NOMINAL POWER	0.8W
CONNECTIONS	Cable connection
TEMPERATURE (tc)	46°C max. across the board

***NOTE! Led Characteristics and downlight are referred only for DN-1003 & DN-1003/C Models**

Terms of Sales - Technical Support

Help Center

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SAFETY & SECURITY SYSTEMS
for a safer world!

SELF-TESTING MAINTAINED/NON-MAINTAINED DYNAMIC DISPLAY LUMINAIRES

IP20 | ST | M | NM | $LiFePO_4$ | 1 & 3h | 5 to 40°C

Thank you for your trust in our products
Olympia Electronics - European manufacturer

Package Contents

1 × Luminaire
2 × Lens for Anti-Panic area (DN-1003 & DN-1003/C)
2 × Lens for Escape Route area (DN-1003 & DN-1003/C)
1 × User Manual
1 × Bag with mounting accessories

General

This emergency luminaire is designed for installation in indoor spaces with ambient temperatures up to 40°C. It must remain permanently connected to the mains power supply to ensure proper operation. In the event of a mains power failure, the luminaire automatically switches to emergency mode, activating the LEDs to provide reliable safety lighting. Once the mains power is restored, the luminaire returns to normal operation without the need for user intervention.

Manual Operational Test
The operational test is initiated by briefly pressing the TEST button. The light source and the emergency circuit of the device are tested. The manual operational test can be conducted only if the mains power supply and the battery are connected. During this test period, the CHARGE LED starts blinking rapidly. The battery must have an adequate charge. This test lasts for 3 seconds.

Manual Autonomy Test
The manual autonomy test is initiated by pressing and holding the TEST button for 5-10 seconds. In order to perform this test, the mains power supply should be connected, and the battery should be fully charged. The luminaire enters emergency mode, and the CHARGE LED starts blinking rapidly. The test lasts for the stated autonomy duration of the luminaire. If, at the end of the test, the autonomy is lower than the nominal value, the FAULT LED will light up, indicating that the battery needs to be replaced. If the result of the test is satisfactory, the luminaire enters charging mode, and the CHARGE LED continues to blink rapidly until the battery is fully charged.

Automatic Operational Test
This test includes all the operations provided in the Manual Operational Test and is conducted automatically every 15 days, lasting 3 seconds.

Automatic Autonomy Test
The Automatic Autonomy Test is conducted annually and measures the device's backup operation and emergency duration. This test includes all functions of the Manual Autonomy Test.

ATTENTION!!!
1. Operations for installation, maintenance, or testing must be done by authorized personnel only.
2. Always use round mains cables with a diameter of 5-10mm (H05RN-F type 2x1mm² or any other type at least equal to its mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the IP rating).
3. The device must be connected to the mains power supply through a circuit breaker that is appropriate for the total line's power load.
4. In case of battery replacement, it must be replaced with the same type, by the manufacturer or a competent person.
5. If the device is inactive for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.
6. If the luminaire no longer meets the rated duration of operation after the corresponding recharge period, the battery must be replaced.

Indications LED Status

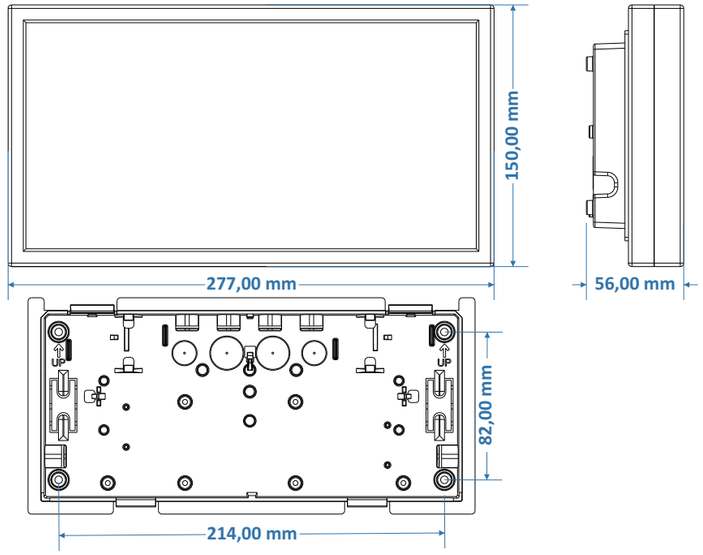
GREEN (charge)	RED (Fault)	Description
●	○	Normal
◉	○	Charging (autonomy test not possible while charging)
○	○	Mains off (battery not connected or charger fault)
◉	○	Autonomy Test (Duration: Stated autonomy duration of the luminaire)
∅	●	Battery Fault
◉	○	Operational Test (Duration: 3s)
∅	◉	Light Source Fault
∅	◉	Battery Fault & Light Source Fault
Note:		●Permanently ON ◉ Fast Blink ◉ Slow Blink ○Off ∅ Non relevant

Waste Electrical and Electronic Equipment

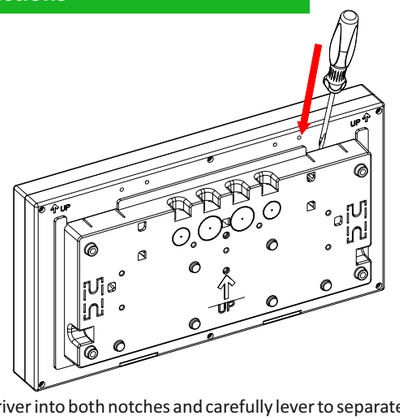
This symbol indicates that this product must not be disposed of with household waste. Instead, it should be taken to an appropriate collection point for the recycling of electrical and electronic equipment, in accordance with local laws and regulations. Proper disposal helps protect the environment and human health from potential hazards. The batteries of the product must also be collected separately and taken to designated battery recycling points. Do not incinerate them.

Disassembly Information
For the complete disassembly procedure of this product, please scan the QR code.

Dimensional drawing

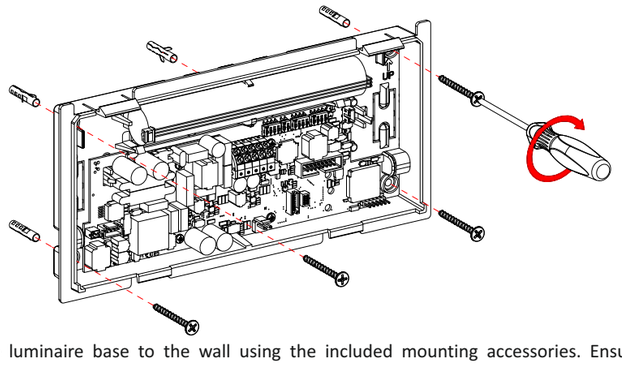


Installation Instructions



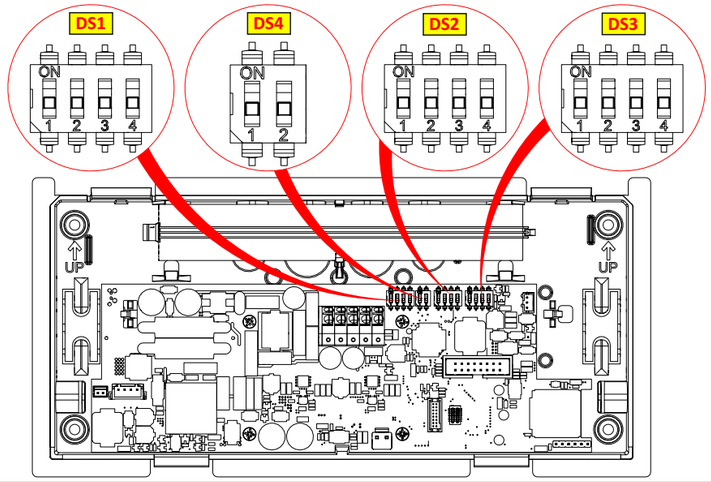
Insert a flat-blade screwdriver into both notches and carefully lever to separate the screen from its base.

1



Mount the luminaire base to the wall using the included mounting accessories. Ensure correct orientation, as indicated by the upward arrow, which shows the proper mounting position.

2



DS1, DS2, DS4 FUNCTIONS (SCREEN ADJUSTMENTS)

The user can change the screen icons by adjusting the dip-switches located at positions DS1, DS2, and DS4.

DS1: Used to select the icon displayed during normal operation of the luminaire. The user can choose one of sixteen (16) different icons using the DS1 switches. For the switch configurations, refer to the additional leaflet included in the packaging.

DS4: Used to set the icon mode (static or moving). When the switch is in the OFF position, the icons remain static. When the switch is in the ON position, the icons are animated (moving). Switch 1 controls the mode during normal operation, while Switch 2 controls the mode during alarm operation.

DS2: Used to select the icon displayed during alarm operation of the luminaire. The user can choose one of sixteen (16) different icons using the DS2 switches. For more information regarding the alarm function, refer to the CONNECTIONS section. The switch settings are identical to those of DS1.

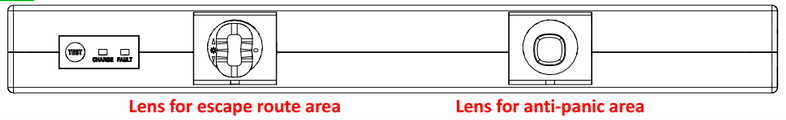
DS3 FUNCTIONS

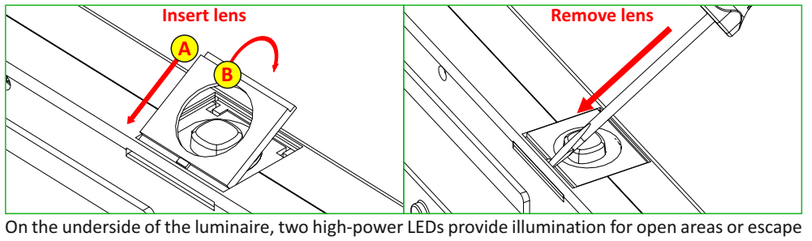
The user can select one of the available minimum autonomy durations: 1 hour or 3 hours. Selection is made using Switches 2 and 3 of Ds1. The package includes an additional label for a 3-hour duration (180). If the 3-hour duration is selected, the installer must replace the default 1-hour (60) with the appropriate label. Ensure that the label is correctly oriented.

The maintained or non-maintained operation of the luminaire is controlled via Switch 4 of DS3. For maintained operation, Switch 4 of DS3 must be in the ON position, while for non-maintained operation, it must be in the OFF position.

Attention! All selections must be performed while the luminaire is disconnected from both the AC power supply and the battery.

3





On the underside of the luminaire, two high-power LEDs provide illumination for open areas or escape routes, depending on the selected lens. Install the appropriate lens, then secure the protective cover in place.

4

Attention! This step applies only to models equipped with a downlight.

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