

ES01

LED Explosion Proof Exit Light



Key Features:

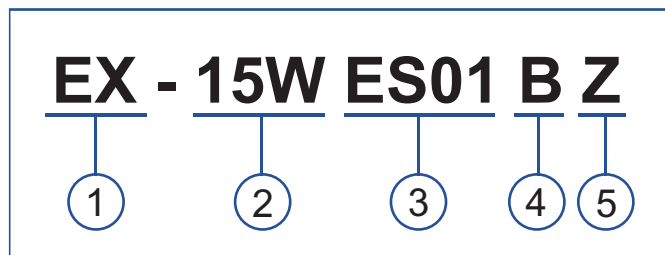
- 1 Emergency exit signs can be fitted if needed.
- 2 Central locking is available.
- 3 Label content can be customized.
- 4 Low working wattage for energy saving.
- 5 15W version is available, switchable to ordinary illumination.
- 6 Emergency time is more than 180 minutes.
- 7 Various installation ways include wall, ceiling, and pendant mounting.
- 8 Lifespan up to 50,000 hours.
- 9 5-year warranty.
- 10 Working temperature: -4°F to 104°F (T6) or -4°F to 140°F (T5).

Standard Materials:

- ◆ Housing: Glass Fiber Reinforced Polyester Resin
- ◆ Cover: PC
- ◆ Bearing: Stainless steel
- ◆ Mounting Sling: Stainless steel

LED Explosion Proof Exit Light - ES01

Model Description:



- ① "EX" means explosion proof product.
- ② "15W" means the maximum wattage for this luminaire in Normal working model, the value may be any value from 1W to 15W, with 0.5W gradually increase.
- ③ "ES01" designates type series.
- ④ "B" means when the luminaires do not have a battery, the main function is lighting, and its value is "N". When the luminaires have its own battery and its main function is emergency lighting, its value is "Y". When the luminaires are an emergency escape route sign luminaire, its value is "A" to "X".
- ⑤ "Z" designates color temperature options, which can be 27 to 70, denoting 2700K to 7000K and gradually increasing by 100K, maximum is 7000K. **Note: Escape route sign luminaires do not have this option.**

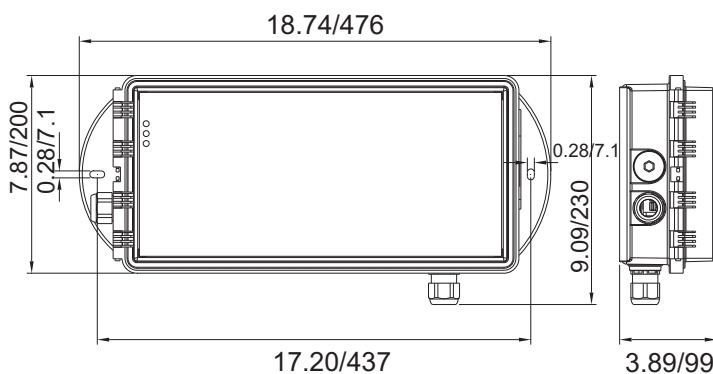
Example:

The model of 5W escape sign luminaires with left arrow sign and human sign is: EX-5W ES01B

The model of emergency lighting luminaires with color temperature of 5000K and power of 15W is: EX-15W ES01Y50

Dimension:

unit: inch/mm



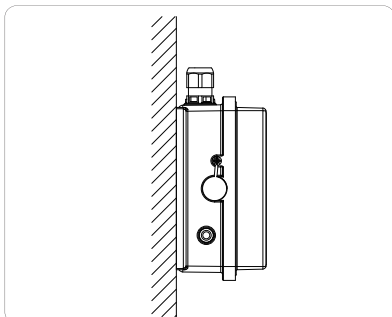
Packing Information:

Model	Quantity/Carton	Packing Size	Gross Weight
ES01	1 Pcs	13.78x21.65x7.09inch/350x550x180mm	7.74 lbs/3.6kg

LED Explosion Proof Exit Light - ES01

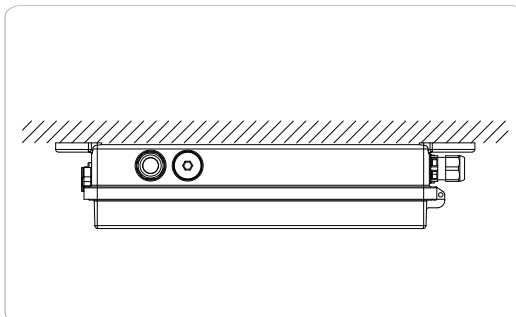
Mounting Methods:

1. Wall Mounting:



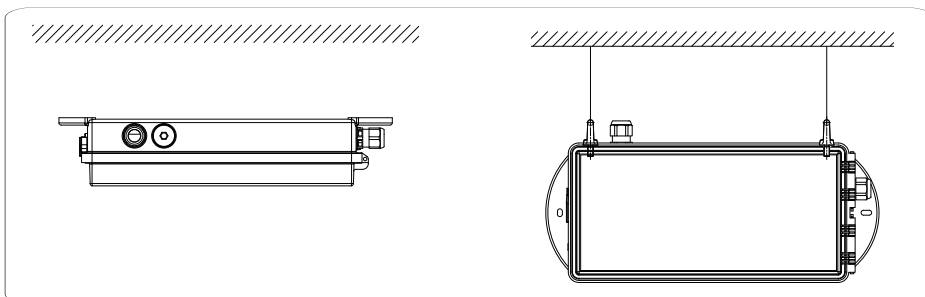
Open the cover by turning the regular hexagon spanner counterclockwise. Then connect the wire, fix the fixture to the wall.

2. Ceiling Mounting:



Fix the fixture to the ceiling through the two mounting holes on the fixture.

3. Pendant Mounting:



First, connect the two pendant strings with the fixture. Then fix it on the ceiling.

Marks:

Label size: 14.37x6.50inch/365x165mm

Visible distance: 65.62ft/20meters



LED Explosion Proof Exit Light - ES01

1. Safety Instructions

- Any installation and maintenance need to be operated by a professional electrician. IEC60079-14 standard should be followed.

- Please do not dismount, change or replace any inside parts. If you have any difficulties in the process of installation, please contact our local distributors or us directly.

- Explosion proof cable introduction device or explosion proof metal conduit should be used in the process of installation and maintenance, its IP rating and explosive-proof grading should not be lower than the standard indicated on this product label.

- Do not install this product on an incomplete or easy-to-damage surface.

- Overload is strictly prohibited in use.

- In the event of an accident, please turn off the power and contact your local distributor timely.

2. Technical Parameters

Global (IECEX):	
Gas:	Ex eb db mb q IIC T5/T6 Gb
Dust:	Ex tb IIIC T80°C / T95°C Db IP66
Europe (ATEX) :	
Gas:	II 2G Ex eb db mb q IIC T5/T6 Gb
Dust:	II 2D Ex tb IIIC T80°C / T95°C Db IP66
Rated voltage AC:	110 V - 277 V
Rated voltage DC:	12 V - 36 V
Rated frequency:	50 / 60 Hz
Degree of protection:	IP66
Operation temperature:	
	-20°C~+60°C (T5 / T95°C) or -20°C~+40°C (T6 / T80°C)
Max surface temperature:	T6 for gas and T80°C for dust
Weight:	approx. 3.5 kg / 7.72 lbs
Max rated wattage 1:	10W, Escape route sign luminaires *
* The rated wattage is a multiple of 0.5, with a minimum of 1W and a maximum of 10W.	
Max rated wattage 2:	15W, Lighting luminaires / Emergency lighting luminaires *
* The rated wattage is a multiple of 0.5, with a minimum of 1W and a maximum of 15W.	
Batteries:	3.7V, 2 A
Cable entry size:	M25×1.5, 3/4 NPT
Stopping plug:	M25×1.5
Emergency time:	
Escape route sign luminaires:	1.5 hours or 90 minutes
Emergency lighting luminaires:	1.5 hours or 90 minutes
Charging time:	24 hours
Impact strength (IK code):	IK08 (IEC 62262)
Installed terminal strip:	PE + N + L
Connection terminals solid max.:	4mm ²
Connection terminals finely- stranded max.:	2.5mm ²

3. Conformity with standards

The device has IECEx approval. See IECEx homepage: <http://www.iecex certs.com/#/home>.

This product is applicable for zone 1 and zone 2 of explosive hazardous locations, and can be used in IIA, IIB, IIC explosive gas environment with temperature level of T1-T6; and for zone 21 and zone 22 combustible dust environment.

4. Safety Installation Guides

The device has been manufactured to the state of the art while observing recognized safety-related rules. When using the device, it is nevertheless possible for hazards to occur to life and limb of the user or third parties or for the device, environment or material assets to be compromised.

Use the device only

- If it is not damaged.
- As intended, while remaining aware of safety and dangers in accordance with these operating instructions.

4.1 Storage notice

Store in a dry and cool location. Storage should be protected from fire, sources of dust, harmful gases and liquids.

Warning - In order to avoid material damage and complete battery discharge, the luminaires should be charged and discharged every 6 months from the date of production.

Storage condition:
Storage temperature: +41°F to +95°F
Related humidity: (storage temperature 77°F) ≤ 65%

4.2 Using scope

The ES01 series luminaires are intended for lighting areas, work areas and objects, in addition to escape route marking when used with an escape route sign.

The ES01 series luminaire can also be used as emergency lighting because it has an internal battery. The luminaires are usable indoors and outdoors and are intended for stationary mounting (wall or ceiling installation).

5. Taking into operation

- The luminaires with SW switch are optional. When the housing is opened, the luminaires will automatically cut off the circuit connection between the power terminal and the lamps control gear.

- Under the condition of source voltage 100-277 VAC 50-60Hz, the fast charging time is 2 hours to 4 hours.

LED Explosion Proof Exit Light - ES01

- In the event of a power failure, the emergency function will start automatically.

- The luminaire is switched on regardless of the operation mode of the selected rated operating time.

- Check the function and the operating time of the luminaire during emergency light mode.

7. Maintenance

Warning - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT!

This product should be maintained regularly and repaired timely in the process of use. Comply with the applicable national standards and regulations in the country of use, e.g.: IEC/EN 60079-14, IEC/EN 60079-17, IEC/EN 60079-19.

Have the mounting, installation, commissioning and maintenance work performed by qualified and authorized persons only.

7.1 Servicing

When servicing, in particular those components that affect the explosion protection, will have to be checked, e. g.:

- The clamping screws holding the electrical lines are fitted securely.

- The device enclosure and/or protective enclosure has/have no cracks or other visible signs of damage.

- The device is clean inside and outside. Regularly clear the dust and dirt on the housing of this product to improve its heat dissipation performance. **Warning - WIPE WITH A DAMP CLOTH WHEN CLEANING.** When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents. Do not use aggressive cleaning agents or solvents.

- Compliance with the permissible temperatures.

- Cable entry is intact and securely tightened.

7.2 Repair

Warning. The emergency lamps control gear has been permanently sealed and cannot be repaired.

Repair work on the device must be performed by VENAS only.

8. Disposal / Recycling

Warning. Burn or poisoning may be caused by chemical reaction from discarding batteries incorrectly!

- Non-compliance may result in serious injuries or environmental damage.

- Collect batteries separately.

- Do not dispose of batteries in the household waste. Instead, send for disposal, i.e., to official collection points or give back to the supplier.

- Observe national and local regulations and statutory regulations regarding disposal.

- Separate materials when sending them for recycling.

- Ensure environmentally friendly disposal of all components according to the statutory regulations.