

Installation and Operation Instructions

Product: ELSMX-C1D2 – LED Edge Lit Exit Sign – Explosion Proof – Class 1 Division 2

Thank you for choosing our lighting product. To ensure safe use, please take a moment to carefully read these instructions. We also recommend keeping this manual for future reference.

Important Safety Information:

- The Emergency Exit Sign should only be connected to a power source with a voltage of 100-277V AC, 50/60Hz.
- Do NOT dismantle, modify, or replace any internal electronic components. For any questions, please contact us.
- Ensure that the power supply is disconnected before installation, maintenance, or any actions involving direct contact with the light.
- Do NOT install the lights on surfaces that are easily damaged.
- Under no circumstances should this unit be covered by any insulation material.
- All maintenance should be performed by qualified electricians only.
- Do NOT service the product in areas classified as explosive atmospheres.
- The battery is not replaceable. Replace the entire unit when necessary.

1. General Overview

This LED emergency exit sign is designed to be explosion-proof, with the following electrical specifications:

- Input Voltage: AC100-277V, 50/60Hz
- Maximum Power: 5W

The ELSMX-C1D2 exit sign is suitable for installation in the following locations:

- Class I Division 2

- Group A, B, C, D
- Hazardous (classified) locations

Operating temperature range: -4°F to +140°F, T6 rating

Construction Details The fixture is an emergency exit sign light, composed primarily of the enclosure, PCB power board, light panel, tempered glass, and additional components. This exit sign is suitable for use in Class I Division 2, Group A, B, C, D hazardous (classified) locations.

Standards Compliance:

This product meets UL 924 and UL 844 standards.

2. Safety Installation Instructions

On-site Installation

These instructions provide specialized installation information for the installer, based on the intended use of the unit in hazardous locations. Installation should be carried out by a qualified electrician. The supply connections must use a 3/4"-14 NPT conduit. Ensure the correct conduit size is selected. The wiring method for power supply connections must comply with the National Electrical Code (NEC) and the Canadian Electrical Code (CEC) for specific hazardous locations.

Maintenance

We recommend cleaning the fixtures every six months.

Indicator Lights

The exit sign features a red, green, and yellow indicator light:

- **Red:** Lights up when the battery is charging.
- **Green:** Lights up when the battery is more than 80% charged.
- **Yellow:** Lights up when the battery capacity is below 20% or if there is a malfunction in the fixture.

Test Switch

Regularly test and check the internal emergency power supply of the exit sign. DO NOT attempt to replace the battery, as it is fully sealed and non-replaceable. When pressing the test switch button, the emergency system is functioning correctly if the exit sign turns off and then back on within one to three seconds. If there is no response, the emergency system is not functioning properly.

Repair

To prevent the risk of ignition in hazardous environments, do not attempt to repair a damaged unit. Replace the entire unit when necessary.

Wiring Connections

The lead wires exiting the conduit opening of the exit sign are color-coded for easy field wiring connections to the power source:

- **Black wire:** Connects to the hot/live wire.
- **White wire:** Connects to the neutral wire.
- **Green or green with yellow stripes:** Connects to the ground.

The wiring method should be suitable for specific hazardous locations in accordance with the National Electrical Code (NEC) and Canadian Electrical Code (CEC).

Safety Training Instructions

For wiring instructions, please refer to the detailed installation guide below. Typically, the black wire connects to the live wire, the white wire to the neutral, and the green wire with yellow stripes to the ground.

Contents of the Package

Item	Qty
LED Edge Lit Exit Sign	1
Mounting Accessories	1 (pole/bracket)
Installation Instructions	1
Expanded Screws	4 (M12x30)
Connectors	4
*Sling Wire	2

*1 wire is required for side/pole mounting

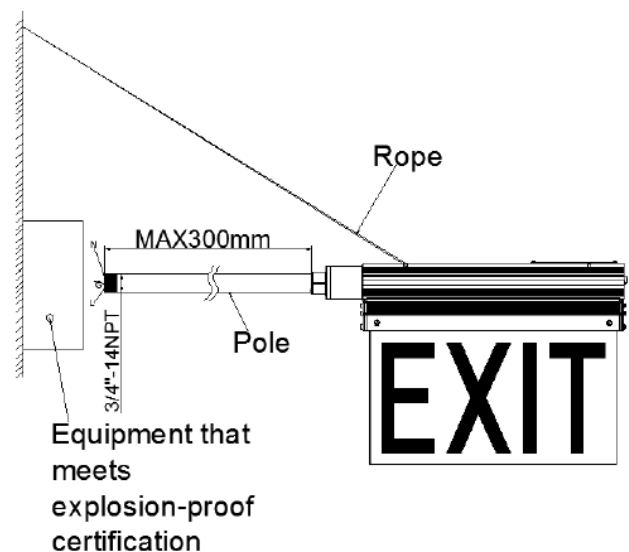
**2 wires are required for ceiling and suspension mounting

3. Installation Processes

**Turn off power before any type of installation*

• Pipe Mounting

- **Step 1** – Ensure that all equipment used is explosion proof rated.
- **Step 2** – Connect the power cable to the terminals of the power source within a standard junction box. Ensure that the polarity of the terminals and the color of the wires are matched correctly when making the connections.
- **Step 3** – Use a rigid metal conduit that fits the conduit opening on the fixture. Thread and securely tighten the conduit to the fixture.

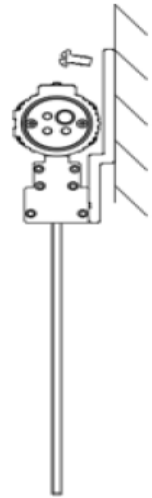


- **Step 4** – Connect the wiring. Typically, the black wire connects to the live wire, the white wire connects to the neutral wire, and the green wire (or green with a yellow stripe) connects to the ground wire.
- **Step 5** – Reinforce the installation using the sling wire.
- **Step 6** – Lastly, check that the fixture has power and is functioning normally.

- **Wall Mounting**

Note: *The product must be connected to the branch supply in accordance with applicable Codes. Fittings should be certified for the appropriate use environment.*

- **Step 1** – Connect the power cable to the terminals of the power source inside a standard junction box. Ensure that the polarity of the terminals and the color of the wires are properly matched when making the connections.
- **Step 2** – Use a rigid metal conduit that fits the conduit opening on the fixture. Thread and securely tighten the conduit to the fixture.
- **Step 3** – Connect the wiring. Typically, the black wire connects to the live wire, the white wire connects to the neutral wire, and the green wire (or green with a yellow stripe) connects to the ground wire.
- **Step 4** – Mount the fixture to the wall using the two mounting holes on the fixture and the included screws. Users can select the appropriate mounting threads and accessories as needed.
- **Step 5** – Lastly, check that the fixture has power and is functioning normally.



- **Suspension Pendant Mount (Pendant Not Included)**

- **Step 1** – Connect the power cable to the terminals of the power source within a standard junction box. Ensure that the polarity of the terminals and the color of the wires are correctly matched when making the connections.
- **Step 2** – Use a rigid metal conduit that fits the conduit opening on the light fixture. Thread and securely tighten the conduit to the fixture.
- **Step 3** – Connect the wiring. Typically, the black wire connects to the live wire, the white wire connects to the neutral wire, and the green wire (or green with a yellow stripe) connects to the ground wire.
- **Step 4** – Complete the connection of the wiring, conduit, junction box, and fixture.
- **Step 5** – Reinforce the installation using the sling wire and screws.
- **Step 6** – Finally, check that the fixture has power and is functioning normally.

