

# Luminaire For Hazardous Locations

## Installation and Maintenance Manual

### Model L2102 Series

Revision Level: A0

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# THT-EX



## 1. General Safety Instructions

Model L2102 LED luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC) and Canadian Electrical Code (CEC):

- Class I, Division 1, Groups B, C, D
- Class I, Division 2, Groups A, B, C, D
- Wet Locations (UL 1598)

Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature (T-Code).

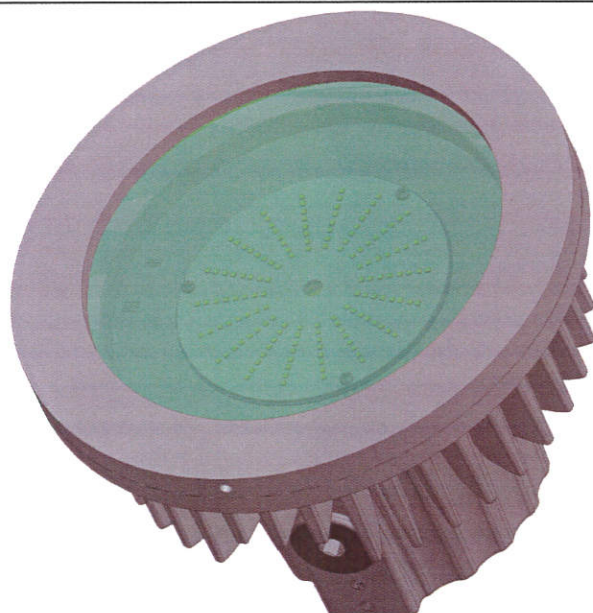
Model L2102 LED luminaire is designed for using in indoors and outdoors environment.

Rated Voltage 100-277 Vac, 50 & 60 Hz

Ambient Temperature Range:

-20°C ~ +40°C (CID1:T6)

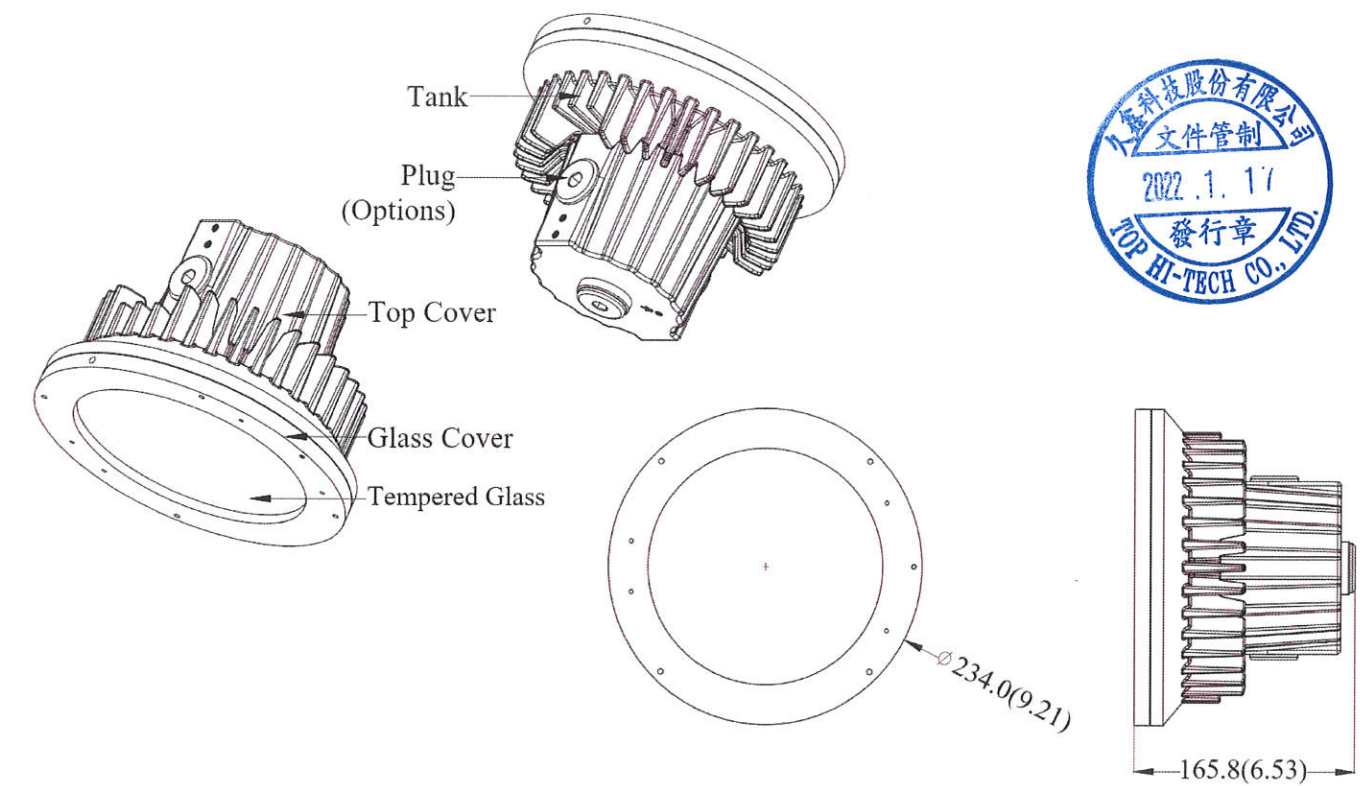
-20°C ~ +50°C (CID1:T6)



### WARNING

- ▶ To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable codes and regulations.
- ▶ To avoid electric shock:
  - ✓ Be certain electrical power is OFF before and during installation and maintenance.
  - ✓ Luminaire must be supplied by a wiring system required by the NEC and CEC for the specific hazardous locations with an equipment grounding conductor.
- ▶ To avoid explosion:
  - ✓ Make sure that the supply voltage is the same as the luminaire voltage.
  - ✓ Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
  - ✓ Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
  - ✓ All gasket seals must be clean and undamaged.
  - ✓ Before dismounting, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
- ▶ To avoid burning hands, ensure the luminaire is cool when performing maintenance.
- ▶ The internal grounding terminal shall be used as the equipment grounding means and the external terminal is only a supplemental bonding connection.
- ▶ "WARNING: To prevent ignition of Group B atmospheres conduit runs must have a sealing fitting connected within 9 inches of the luminaire."
- ▶ Mounting Orientation – Lens horizontal Facing Down or Lens Facing Down 25° from vertical.

2. Dimensions [ All Dimensions in mm(inch) ]

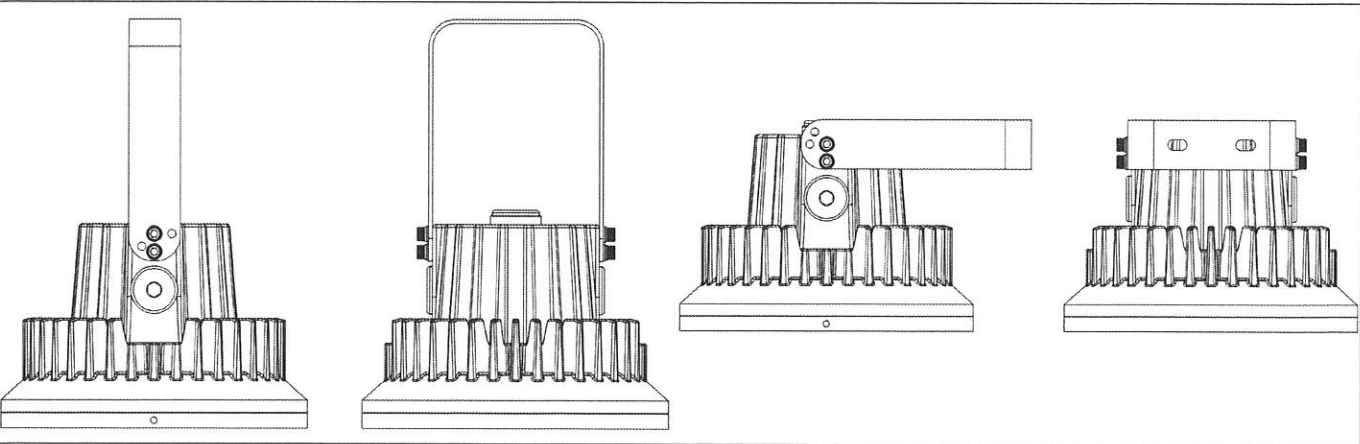


3. Technical Data

Item	Description
Rated Voltage (Vac)	100-277 Vac
Rated Wattage (W) ( $\pm 10\%$ )	30/ 35/ 40/ 45/ 50/ 55/ 60 W
Power Factor	$\geq 0.9$
Ambient Temperate Range	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$ and $-20^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$
Degree of Protection	IP67
Material	Enclosure: Aluminum Alloy Glass: Tempered Glass
LED Service Life	60,000 hrs

Mounting Type

WHT Mounting





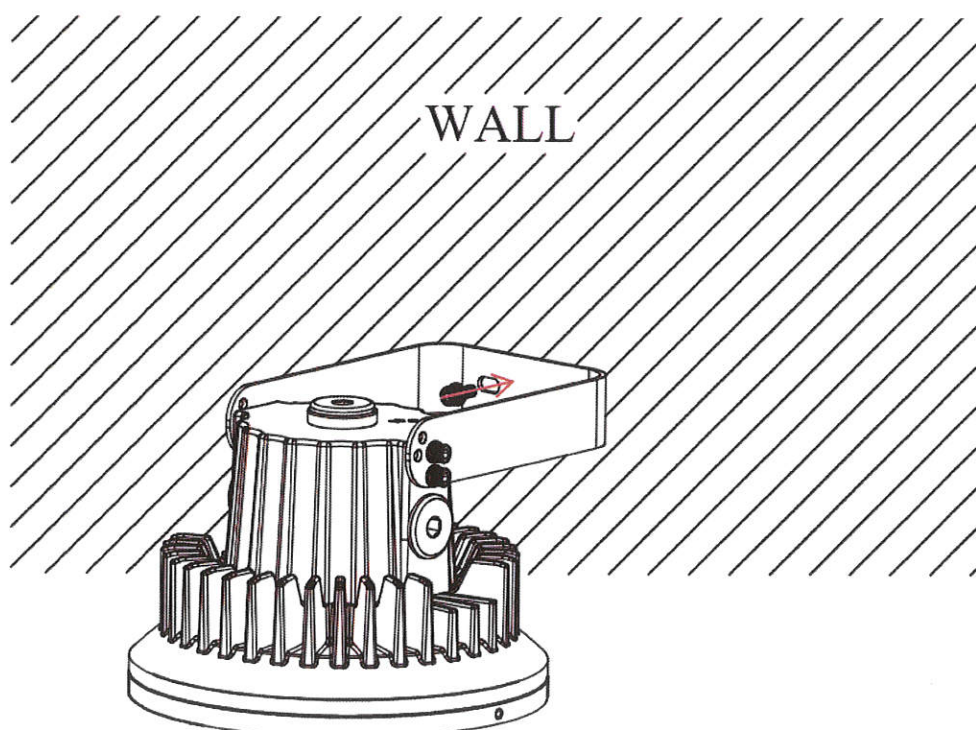
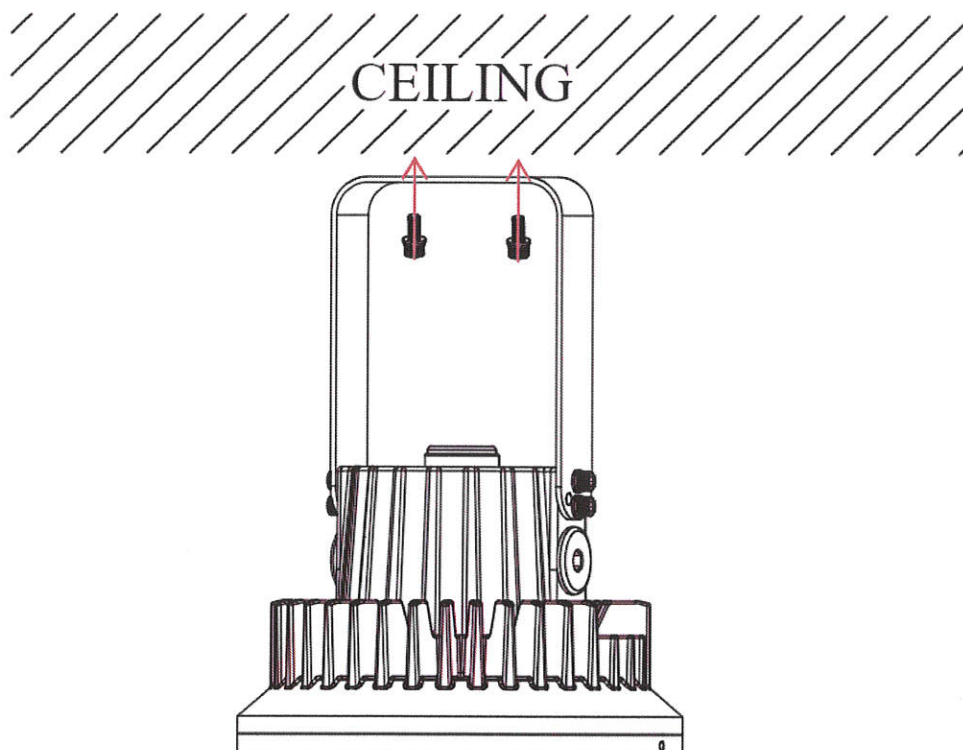
## 4. Assembly and Installation (The flameproof joints are not intended to be disassembled or repaired)

### 4.1 Mounting Bracket Installation

#### 4.1.1 WHT Mounting

The mount bracket is for the use of both Wall Mounting and Hanging Mounting.

- ☞ Secure the WHT mounting bracket to the lighting by using four fasteners.
- ☞ The WHT mounting bracket and fix it by means of the provided M6 screws, 51 kgf-cm.
- ☞ The angle of lighting fixture can be adjusted.



## 4.2 Putting into Service

Before putting into operating, it's necessary to ensure that:

- ☞ The lighting is correctly installed.
- ☞ The connection has been correctly made.
- ☞ The cable has been inserted correctly.
- ☞ The voltage is correctly.



## 5. Maintenance

### WARNING

- ▶ To avoid dangers due to energized parts, all connections and wiring must be disconnected from the power supply. Secure the connections against unauthorized activation.
- ▶ To avoid risk of burn to hands, let the housing, the cable gland and the protective glass cool down for approximate 30 minutes before touching them.
- ▶ Maintenance work is not permitted on flameproof enclosures. Repairs are only to be carried out by the manufacturer. Unauthorized repair shall cause the manufacturer's liability and warranty expires.
- ▶ To avoid danger of potential electrostatic charging hazard, please wipe with a damp cloth when cleaning.

### Regular Maintenance

- ☞ Consult the relevant national regulations (e.g. IEC/EN 60079-17) to determine the type and extent of inspections.
- ☞ Arrange the plan of regular inspection with the equipment, one time per 3-month at least, so that any defects in the equipment which may be anticipated are promptly detected.

### To check as part of the maintenance schedule as following:

- ☞ Cracks or damages on the glass cover and/or on the enclosure.
- ☞ Condition of the connecting cables.
- ☞ Screws of the mounting bracket are tightened.

## 6. Accessories and Spare Parts

### WARNING

Use only original THT-EX accessories and spare parts. For accessories and spare parts, see data sheet at [www.tht-ex.com](http://www.tht-ex.com).

## 7. Transport, Storage and Disposal

- ☞ Transport and storage is only allowed in the original packaging, on the way pointed out on the carton box.
- ☞ Transport – Shock-free in its original carton, do not drop, and handle carefully.
- ☞ Store – Store in a dry place in its original packaging.
- ☞ Disposal – Ensure environmentally friendly disposal of all components according to the legal regulations.