Luminaire For Hazardous Locations Installation and Maintenance Manual Model L1105



Top Hi-Tech Co., Ltd. Website: www.tht-ex.com 9F., No. 1, Zhongshan Rd., TEL: +886 2 22671234 Tucheng District, FAX: +886 2 22691166 New Taipei City, 236 Taiwan

e-mail: sales@tht-ex.com

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Subject to alterations.

1. **General Information**

Model L1105 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
- Class II, Division 1, Groups E, F, G
- Wet Locations (UL 1598)

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



Model L1105 LED luminaire is designed for using in indoors and outdoors environment.

Rated Voltage: 24/120/277/480 Vac, 50 & 60 Hz Rated Voltage (DCOB): 24/120/277/480 Vac,

50 & 60 Hz

Rated Voltage (DOB/SMD): 120/277 Vac,

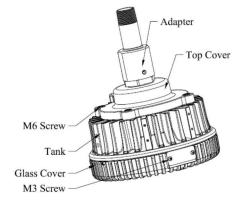
50 & 60 Hz

Ambient Temperate Range: -40°C ~ +40°C

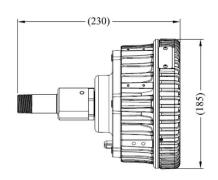
△ WARNING

- 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.

2. **Dimensions** (All Dimensions in mm)







3. Model Code

THT	Е	1105	Z	В	В	С	6	F0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

- (1) Brand name, THT = Top Hi-Tech Co., Ltd
- (2) Protection type of luminaire, E = Explosion proof luminaire
- (3) Model name
- (4) Suffix for manufacturer internal use only, Z = No sub-series under this model
- (5) Designates type of Top Cover, B = Short Top Cover
- (6) Designates type of LED module, A = DOB LED Module, B = DCOB LED Module, K=SMD LED Module
- (7) Designates CCT of LED, C = Cool white, W = Warm white
- (8) Designates voltage of LED module, 6 = 120 Vac, 9 = 277 Vac, C = 480 Vac, 3 = 24 Vac
- (9) Designates wattage rating of the luminaire, B4=24W, C6=36W, D0=40W, E0=50W, F0=60W

4. Technical Data

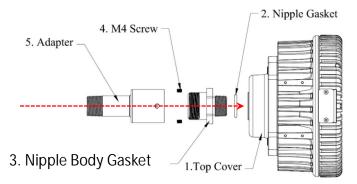
Item	Description
Rated Voltage	24/120/277/480 Vac, 50 & 60 Hz
Ambient Temperate Range	-40°C ~ +40°C
Material Enclosure Glass	Aluminum alloy Heat and impact resistant tempered glass
LED Service Life	60,000 hrs
Supply Entrance Hole	1×NPT 3/4" or M25 threaded holes
Mounting Type / Weight (Net Luminaire Weight: 4.5 kg)	Adjustable Trunnion (Wall & Ceiling) Mounting
	Ceiling
	5.0kg

5. Assembly and Installation

5.1 Electrical Connection

Overview of Nipple Assembly

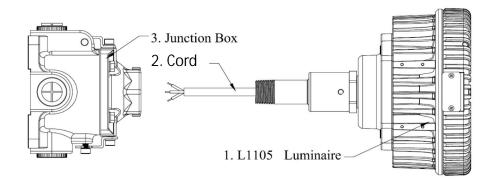
1: Top Cover 2: Nipple Body Gasket	3: Nipple Body	4: M4 Screw	5: Adapter	
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The Top Cover is equipped with the entry hole by mounting the Nipple Assembly.

Overview of Electrical Connection

1. I 1105 I uminoino	2: Cord	3: Junction Box	
1: L1105 Luminaire	(Length: min, 24 inches)	(Provide by customer)	



- 1. Insert the cord (2) through the conduit (not shown, provide in the field) into the Junction Box (3) (provide in the field).
- 2. Fix and Introduce the wires of luminary with the terminal post of Junction Box (White-wire connects to Neutral; Red-wire connects to Live; Green-wire connects to Ground.)

5.2 Mounting Bracket Installation

Two position Adjustable Trunnion (Wall & Ceiling) Mounting - each position with one aiming angle

- The mount bracket is for surface mounting to wall (Figure 1) and ceiling (Figure 2).
- Position the bracket holders and secured by means of the provided M8 screws with 61 kgf-cm. (B)
- Secure the wall/ceiling mounting bracket to the mounting surface by using four fasteners (not provided).
- The luminaire can be adjusted in one position as shown in Figures 1 and 2.

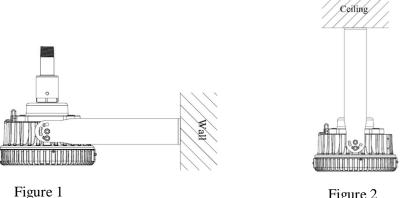


Figure 2

Maintenance

- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice for Electrical Equipment Maintenance.
- The lens should be cleaned periodically to ensure continued luminaire performance. Clean the lens with a clean, damp, non-abrasive, lint-free cloth. If this is not sufficient, use a mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.
- Inspect the cooling fins on the luminaire to ensure that they are free of any contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
- Electrically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

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.