

Installation and Maintenance Manual

HazLoc LED Lighting

Model L1733NS

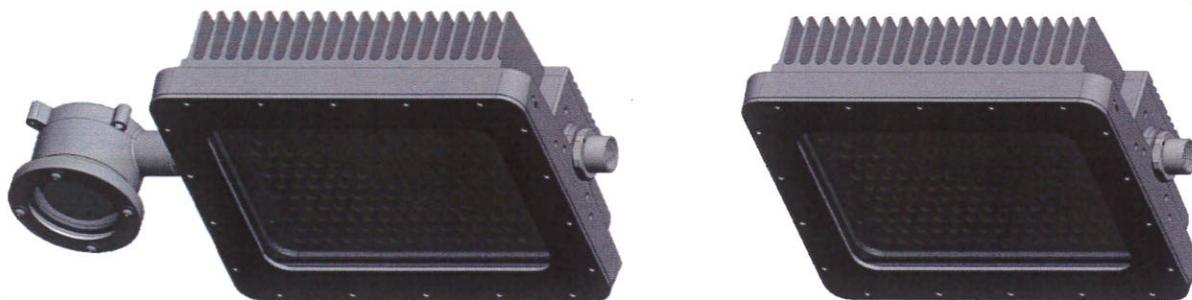
THT-EX

Drawing No: Instruction_L1733NS_IECEX Rev. Level: A0; Date: 2022-04-21

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1. General Safety Instructions

WARNING

This manual contains basic safety instructions to be observed during installation, operation and maintenance of the apparatus, and for properly and safety run of the apparatus according to its performance data. Any damage of the apparatus may result explosion protection null and void. This manual represents the most relevant information about the product, applicable codes and regulations shall supplement it. Non-observance will endanger persons, plant and the environment. The person in charge is required to secure its employment in the industrial unit. Any improper usage, as well as non-compliance with the rules under this manual, shall release the manufacturer's all responsibilities.

WARNING - Potential Electrostatic Charging Hazard. Please wipe with a damp cloth when cleaning.

WARNING - The luminaire shall not be opened.

WARNING - The luminaire does not have a test port fitted.

WARNING - The gasket not to be replaced in the field.

1.1 Before assembly/commissioning:

- ☞ Read through the operating instructions.
- ☞ Give adequate training to the assembly and operating personnel.
- ☞ Ensure that the contents of the operating instructions are fully understood by the personnel in charge.
- ☞ The national installation and assembly regulations (e.g. IEC/EN 60079-14) apply.

1.2 When operating the device:

- ☞ Ensure the operating instructions are made available for the person in charge on location at all times.
- ☞ Observe these instructions, other working instructions and national safety regulations.
- ☞ Verify the implementation of safety instructions.

2. Intended Field of Application

The HazLoc LED Lighting, Model L1733NS is intended for using in gas explosive atmospheres (Zone 2 according to IEC60079-10-1) and dust explosion hazards (Zone 21 according to IEC60079-10-2). The use in other potentially explosive atmospheres does not correspond to the designated use and is therefore not allowed. The apparatus is designed for using in indoor and outdoor environments.

3. Technical Data

Item	Description
Explosion Protection IECEX Gas Explosion Protection Dust Explosion Protection	IECEX UL 21.0111X Ex nR IIC T4 Gc Ex tb IIIC T110°C Db
ATEX Gas Explosion Protection Dust Explosion Protection	UL 21 ATEX 2631X (Type Exam) / UL 21 ATEX 2629X (EU Type) CE II 3 G Ex nR IIC T4 Gc CE0035 II 2 D Ex tb IIIC T110°C Db
Degree of Protection	IP67
Material	Enclosure: Aluminum alloy / Glass: Height Tempered Glass
LED Service Life	60,000 hrs
Luminaire provide with cable gland and cable which assembled at the factory. A torque with 510 Kgf-cm shall apply to the Pressure Nut to compress the Tube at the factory. Cable gland is for circular (round), non-metal sheathed cables. The cable type is: SOOW, 18/3C AWG, 105°C, 1-3 m length. Size of Tube: ID Ø9.0 (Fitting cable: OD Ø9), L=15 mm	
Sensing device: Digital data control ambient light sensor	
Rated Voltage	100-277Vac, 50/60Hz
Maximum Load	@-40°C~55°C; Ballast Electronic (LED) – 540/1200W(VA)
	@55°C~70°C; Ballast Electronic (LED) – 500/750W(VA)
Inrush current	Max. 80A for 16.7mS
Sensing range	Approx. 2~2,000 lux (0.2~200 fc)
Field of view	Approximate 80°



Electrical Rating

Models	Voltage (Vac)	Frequency (Hz)	Wattage (W)
THTH1733SwKx1zz	110	50/60	120/140/150/170/200
THTH1733SwKx6zz	120	50/60	120/140/150/170/200
THTH1733SwKx2zz	220	50/60	120/140/150/170/200
THTH1733SwKxDzz	230	50/60	120/140/150/170/200
THTH1733SwKx9zz	277	50/60	120/140/150/170/200
THTH1733SwKxHz	100~277	50/60	100/110/120/130/140/150/160/170/200

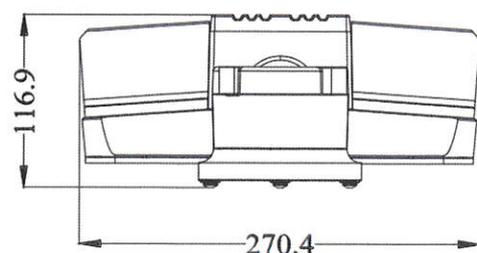
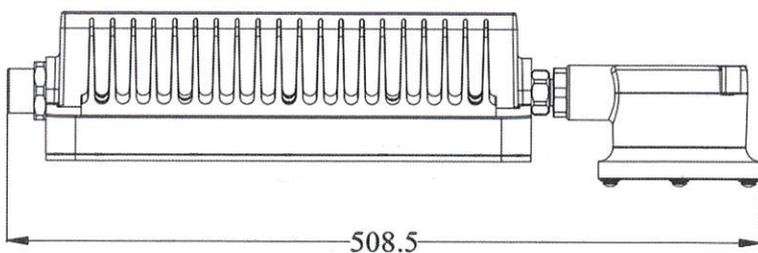
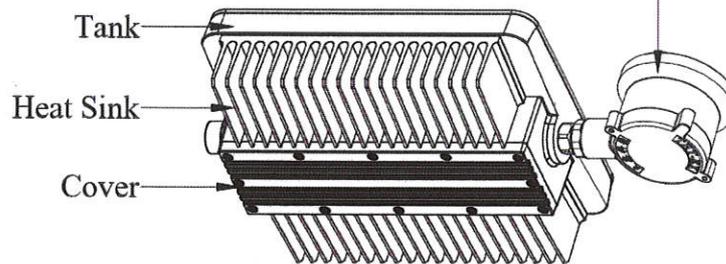
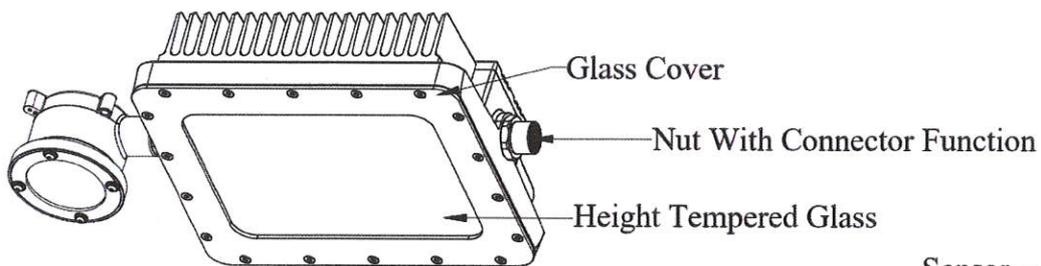
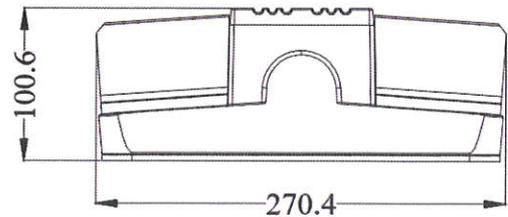
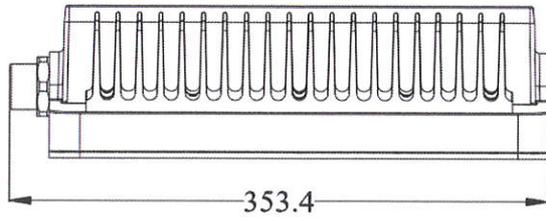
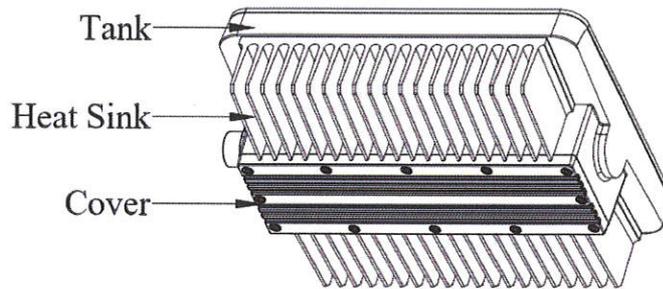
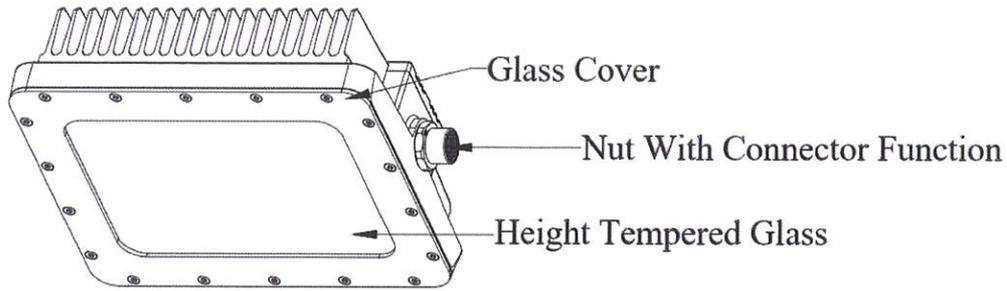
w can be S or Z; x can be C or W; zz can be L0, N0, P0, R0 or U0; z can be J0, K0, L0, M0, N0, P0, Q0, R0 or U0

Temperature Code

Models	Ambient Temperature Range	Gas Temperature Code	Dust Temperature Rating
THTH1733SwKx1zz	-20°C to +50°C	T4	T110°C
THTH1733SwKx6zz	-20°C to +50°C	T4	T110°C
THTH1733SwKx2zz	-20°C to +50°C	T4	T110°C
THTH1733SwKxDzz	-20°C to +50°C	T4	T110°C
THTH1733SwKx9zz	-20°C to +50°C	T4	T110°C
THTH1733SwKxHz	-20°C to +40°C	T4	T110°C
	-20°C to +45°C	T4	T110°C

w can be S or Z; x can be C or W; zz can be L0, N0, P0, R0 or U0; z can be J0, K0, L0, M0, N0, P0, Q0, R0 or U0

4. Dimensions (All Dimensions in mm)

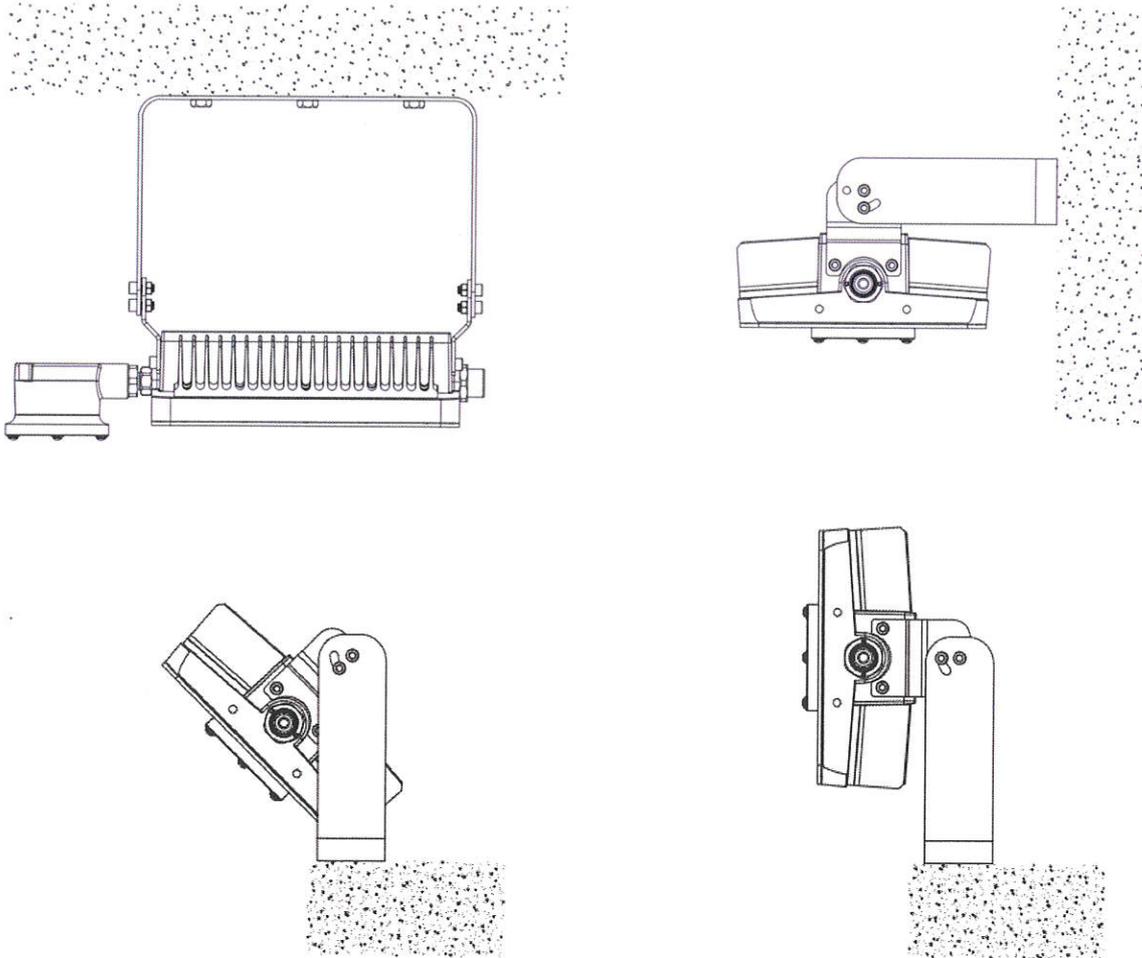


5. Assembly and Installation (The luminaire shall not be opened during installation)

5.1 Mounting Bracket Installation

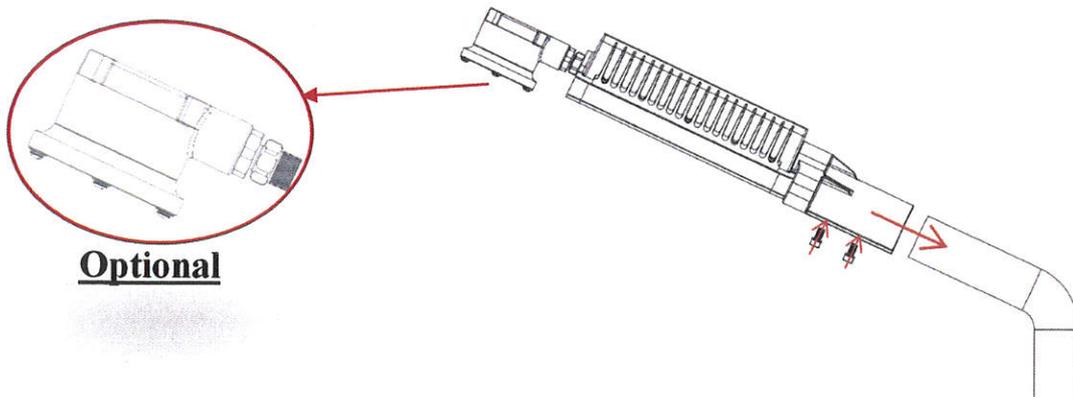
5.1.1 Two Position Adjustable Trunnion Mounting (WHT)

- ☞ The mount bracket is for the use of both wall mount or ceiling mount or floor.
- ☞ Position the bracket holders and fix it by means of the provided M12 screws, 21N-m.
- ☞ Secure the mounting bracket to the structure by using four fasteners (not provided).
- ☞ The angle of lighting fixture can be adjusted.
- ☞ The Sensor is optional.



5.1.2 Street Type Electrical Tube Mounting

- ☞ The pipe thread with thread lock on the stanchion. (After the installation is completed to confirm the electric tube is locking in the column.)



Optional

5.2 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.



5.3 Ground wire

- ☞ The external earth ground wire installation and terminal type as show the right pictures.
- ☞ Ground wire cross-sectional area=4.0 mm², max LED current=1.0A; @V=110Vac-10%.
- ☞ Both ground screw and washer material is stainless steel.
- ☞ Screw hole spec: M5.
- ☞ Torque requirement: 14.5 kgf.cm.
- ☞ Ensure wire is tied assured.

U Type O Type



6. 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 luminaire cool down for approximate 30 minutes before touching them.
- ▶ 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.

6.1 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.

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

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

7. 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

8. 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.