

INSTALLATION INSTRUCTION

IMPORTANT SAFEGUARDS

Read & Follow All Safety Instructions

When using electrical equipment, basic safety precautions should always be followed including:

1. Disconnect power before performing work on electrical equipment (using the light switch to turn off the power is not sufficient to prevent electrical shock)
2. Do not mount near gas or electric heaters
3. Do not install in unstable, loose or breakable surfaces and Do not let objects impact or exert force on the surface of the fixture
4. Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel
5. The use of accessory equipment not recommended by Beghelli Inc may cause an unsafe condition and will void the unit's warranty
6. Do not use this equipment for other than its intended purpose
7. Installation and servicing of this equipment should be performed by a qualified electrician familiar with the product and the hazards involved
8. Allow battery to charge for 24 hours before first use
9. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects

NOTE: THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED



WARNING



CAUTION

- | | |
|--|---|
| <ol style="list-style-type: none">1. Verify correct supply voltage by comparing it with the luminaire label information2. All wiring connections should be capped with UL approved wire connectors3. Use minimum 105°C Supply Wires4. Fixture cannot be covered by thermal insulation or similar materials under any circumstance5. Keep tightly closed when in operation6. DO NOT open when an explosive atmosphere is present!7. Potential electrostatic charging hazard | <ol style="list-style-type: none">1. Avoid direct eye exposure to the light source while it is on2. Beware- small parts and packing material may be hazardous to children3. Risk of burn; Disconnect power and allow fixture to cool before handling fixture4. Hazardous certified cable gland shall be installed (supplied by others) |
|--|---|

SAVE THESE INSTRUCTIONS

Installation Specifications

Suitable application locations for HDZ fixtures are: Gas Zone 1 & 2, Dust Zone 21 & 22; Gas Group IIB and Dust Group IIIC; Gas EPL Gb, Dust EPL Db

Rated Power: 100-277VAC; 50/60Hz

Ambient Temp.: -20 to 60°C discharging, 0 to 45°C charging

Temperature Class: T5

Max Surface Temp: T70°C

Water Proof Class: Wet Location

- ALWAYS cut off power supply and wait a minimum of 5 minutes before performing any maintenance
- DO NOT open the enclosure while in the explosive atmosphere
- DO NOT disassemble other components except power enclosure cover!
- Before re-energizing, confirm proper fixture and electrical installation

Critical Features

1. Spacing - In primary circuits, maintain 6.4 mm minimum spacing through air and 3.2 mm over surfaces of insulating material between current-carrying parts of opposite polarity and between current-carrying parts and dead-metal parts or low voltage isolated circuits
2. Accessibility of Live Parts - All uninsulated live parts in primary circuitry should be housed within a metal enclosure constructed with no openings
3. Grounding - Internal grounding wire should be connected to PE, external grounding wire should be connected to the equipment protective ground wire, both internal and external grounding wire cross section areas should not be less than 4mm²
4. Gable Gland - An Ex certified cable gland is needed for protection at entry. Its marking shall be Ex db II C Gb, Ex tb IIIC Db IP66/IP68 . The cable diameter shall be 8-12 mm, at least 250mm non-circular (sheath secures cable gland attachment). Engage at least 6 threads with a tightening torque of 96 to 132 ft-lbs

Installation Instructions

- Refer to IEC 60079-14 standard for safe installation of hazardous fixtures
- Internal and external grounding wire, including Single-conductor or Multiple-conductor, should be typed with steel cable lug first, then connected to the grounding connector; Tighten the screw with torque not less than 1.6 ft-lb
- When fixtures are installed in an explosive gas atmosphere, must use cable gland or blanking plug complying with IEC 60079-0 and 60079-1 and protection Ex db 11B Gb IP66
- Min 105°C power supply cable shall be used
- DO NOT disassemble other components except power enclosure cover! Contact factory for any mistake in installation
- Entry: 3/4 NPT, Minimum engagement of 6 threads
- Minimum 18AWG supply wire and 2.3mm (0.091") dia external ground wire
- 3/4 NPT Cable gland

Wall Mount HDZC

(Turn off the power before installation)

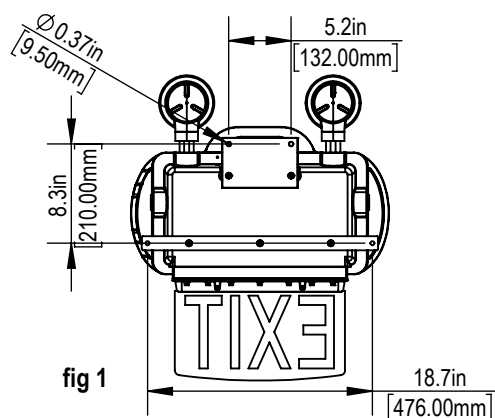


fig 1

1. Drill 4 holes per fig 1

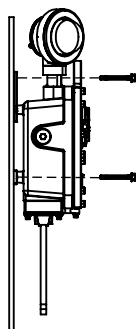


fig 2

2. Attach with 4 x 5/16 inch expansion screws

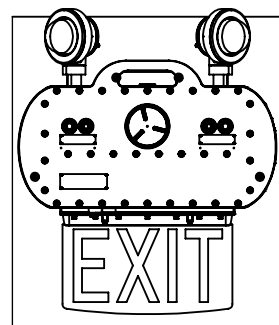


fig 3

3. Install pipe to 3/4 NPT with hazardous rated cable gland

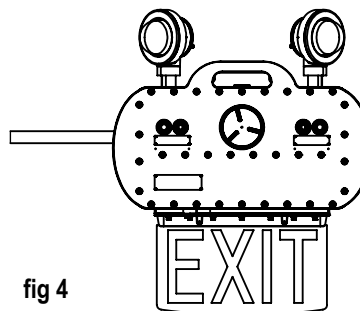


fig 4

4. Make electrical connections (see Wiring Diagram)

Wall Mount HDZX

(Turn off the power before installation)

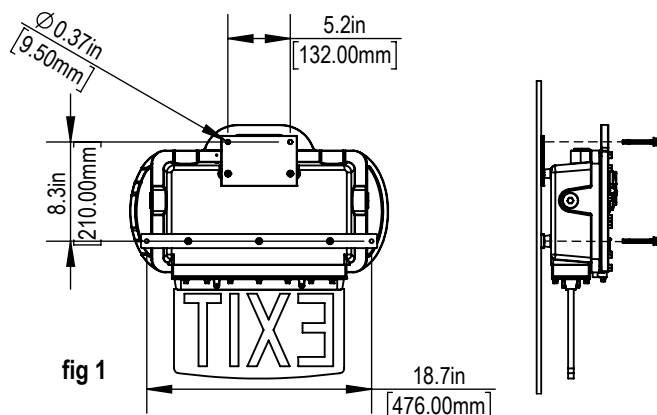


fig 1

1. Drill 4 holes per fig 1

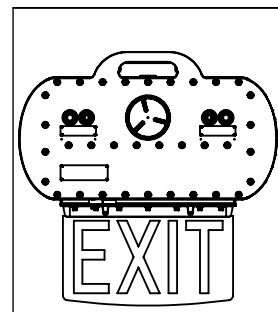


fig 2

2. Attach with 4 x 5/16 inch expansion screws

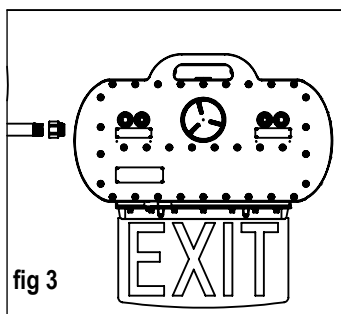


fig 3

3. Install pipe to 3/4 NPT with hazardous rated cable gland

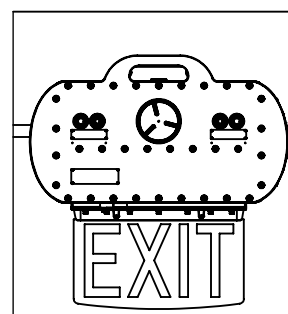


fig 4

4. Make electrical connections (see Wiring Diagram)

Wall Mount HDZESE

(Turn off the power before installation)

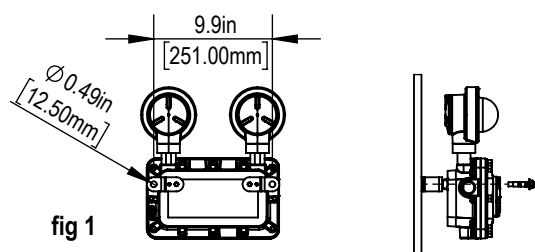


fig 1

1. Drill 2 holes per fig 1

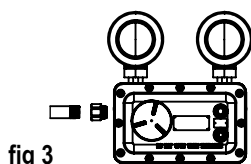


fig 3

3. Install pipe to 3/4 NPT with hazardous rated cable gland

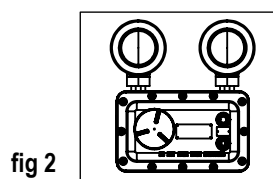


fig 2

1. Attach with 2 x 3/8 inch expansion screws

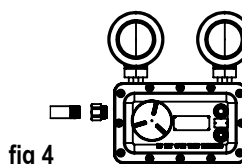
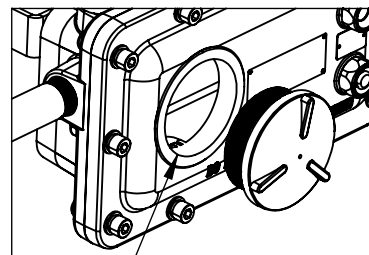
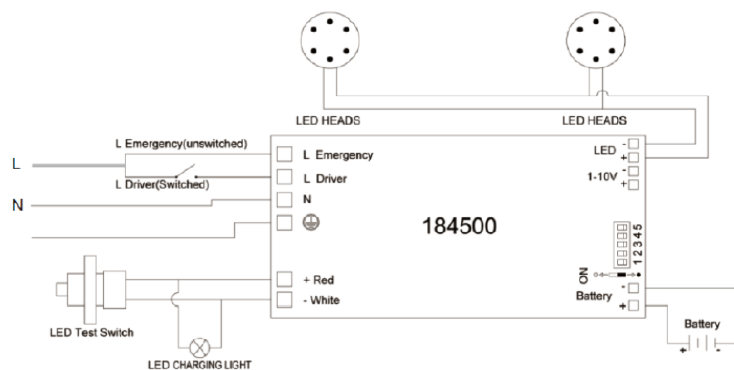


fig 4

4. Make electrical connections (see Wiring Diagram)

WIRING DIAGRAM



WIRING COMPARTMENT

Maintenance



- ALWAYS cut off power supply and wait a minimum of 5 minutes before performing any maintenance
- DO NOT open the enclosure while in the explosive atmosphere
- DO NOT disassemble other components except power enclosure cover!
- Before re-energizing, confirm proper fixture and electrical installation

Gasket Replacement: Replace the power enclosure gasket in the sixth year of maintenance. Contact the manufacturer for the replacement kit (sealing ring and sealing glue). Clean the seal groove and then apply sealing glue. Put seal ring into the groove and fasten for 20 minutes. Please do not open and replace light source enclosure gasket and the joint between light source enclosure and power enclosure. (Gasket installation- Match the gasket to the gap and close the enclosure. DO NOT touch the lamp when cutting off power)

Electrostatic Warning:



- POTENTIAL ELECTROSTATIC CHARGING HAZARD
- We recommend cleaning the fixture every 3 to 6 months with a damp cloth
- Ensure a qualified electrician checks the fixture if flickering or buzzing occurs

Repair Warning:



- To reduce the risk of ignition in hazardous atmospheres, disconnect the luminaire from the supply circuit
- Keep fixture tightly closed when in operation
- Ensure fixture is properly grounded
- DO NOT attempt to repair a damaged lamp, consult factory
- If a fixture is damaged, consult factory (manufacturer will repair damaged fixtures if they are in warranty)