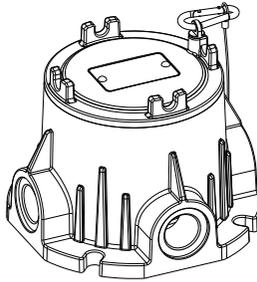


Explosion-proof Junction Box

Installation and Operation Instructions



8500 Hansen Rd.
Houston, TX 77075 USA
Tel: (713) 943-0340
availinfra.com/rig-a-lite/



This product comply with bellow standard:

IEC60079-0:2017
IEC60079-1:2014
IEC60079-31:2022
EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-31:2014

Applicable places are:

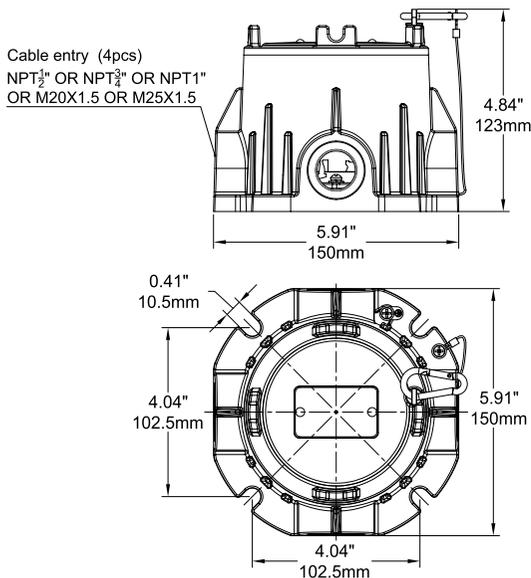
Gas: Zone 1,2 Dust: Zone 21, 22

Certifications:

IECEx:
Ex db IIC T6 Gb
Ex tb IIIC T80°C Db IP66
IECEx Certificate: IECEx CSAE 24.0016X
ATEX:
Ex II 2G Ex d IIC T6 Gb
Ex II 2D Ex tb IIIC T80°C Db IP66
ATEX Certificate: CSANe 24ATEX1100X

Typical application sites are: Chemical plant, oil and gas refineries, drilling rigs, petrochemical facilities, pulp and paper plant, foundries, waste and sewage treatment plant, pharmaceutical plant, mining, power generation, paint spray booths and where flammable vapors, gases, ignitable dusts, fibers or flying are present.

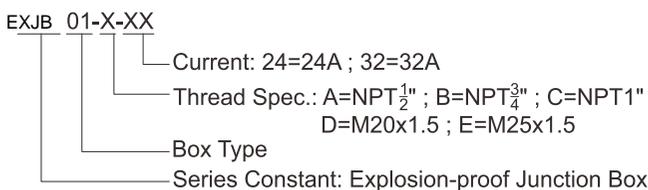
Physical Dimensions (Unit: mm/inch)



Product Specifications

Model	EXJB01-X-XX
Max. Voltage (V)	800
Max. Current (A)	24, 32
Terminal size (mm ²)	2.5, 4
Max. Conductor cross section [mm ²] (AWG)	4 (12), 6 (10)
Outlook Dimensions mm (inch)	150x150x123 (5.91"x5.91"x4.84")
Working Temperature	-60°C to +70°C (-76°F to +158°F)
Storing Temperature	-60°C to +70°C (-76°F to +158°F)

Model Description



Installation and Operation Instructions

Dear Customers and Users:

Thank you very much for purchasing our product. In order to better understand how to use this product safely, please read this instruction patiently and carefully. And please keep the manual properly for future reference.

Warnings:

1. DO NOT dismantle, modify or replace any internal electronic components. If you have any confusion during installation, please contact local dealer or contact us directly.
2. Please be sure to turn off the power before installation, maintenance or any other actions that may touch the Junction Box.
3. DO NOT install the product on the surface that is easy to be damaged and deformed.
4. Under no circumstances can this product be covered with thermal insulation or any other similar materials.
5. If emergency or abnormality occurs, please cut off the power firstly and contact your local dealer as soon as possible.
6. The product is suitable for both indoor and outdoor use.
7. Any installation and maintenance must be performed by certified electricians only.
8. Do not open the enclosure when the product is working.
9. WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Safety Installation Guides

It's very important to cut off the power before removing the fixtures. Also, installer needs to be a qualified electrician.

● On-site installing

This manual is to provide the user with professional installation information, because the product is used in dangerous areas, so the qualified electrician is required. The inlet screw is NPT thread or metric thread (See the nameplate for details), cable entry must be installed with certified cable gland or blanking plug.

● Use and setting-up

All wires need to be tested for proper connection and safe installation before use. In order to avoid the risk of electrical damage and installation safety problem, these jobs must be performed by a qualified electrician.

● Assembling and dismantling

Installer needs to read the instruction carefully before processing the assembling. Please feel free to contact the manufacturer if there is confusion during the installation.

● Training instructions for a safe use

Regards the wiring diagram please refers to installation detailed instruction below. Normally, brown (or black) wire connects to live wire, blue (or white) to nature wire, green with yellow (or green) strips to the grounding.

Special conditions for safe use:

1. End user shall adhere to the manufacture's User manual: Use heat resistant cables and glands (rated 90°C).
2. End user shall use certified cable glands with suitable type of protection for installation purpose. Minimum IP66 for chosen cable glands.
3. Flameproof joints on this product are not intended to be repaired.
4. ELECTROSTATIC CHARGING HAZARD-CLEAN ONLY WITH A DAMP CLOTH.

Mounting of product

• Wiring Diagram

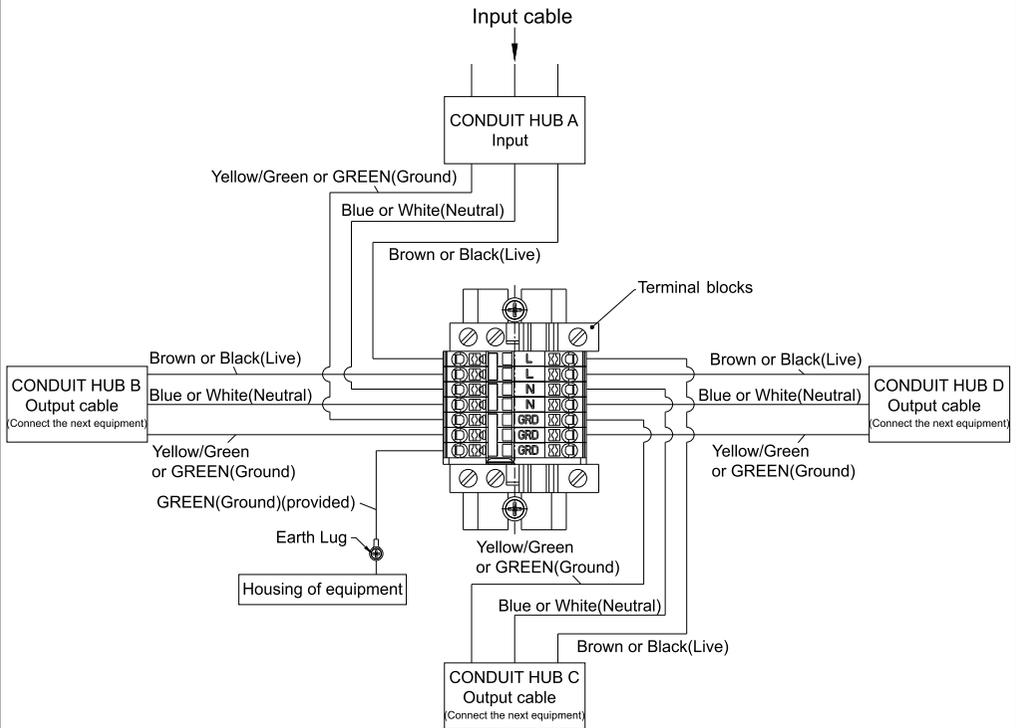


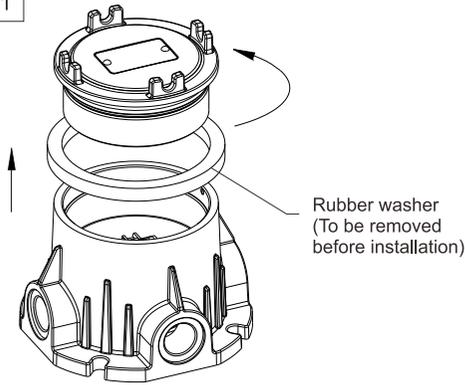
Table 1

Terminal size	Max. Voltage	Max. Current	Max. Conductor cross section	Max. Number of terminals	Max. Number of cable cores
2.5mm ²	800V	24A	4 mm ² (12AWG)	7	3
2.5mm ²	800V	24A	4 mm ² (12AWG)	8	4
4mm ²	800V	32A	6 mm ² (10AWG)	6	3
4mm ²	800V	32A	6 mm ² (10AWG)	8	4

Note:

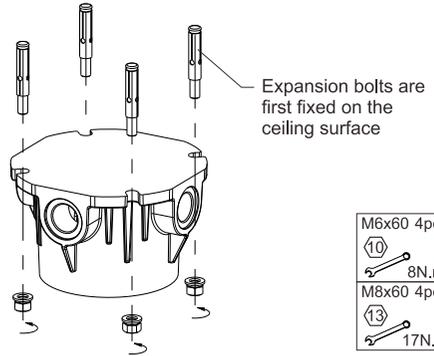
1. Select the cable that matches the terminal block according to Table 1.
2. CONDUIT HUB B, C, and D can be used for Interconnect equipment. When not in use, they should be plugged with certified plugs.
3. This wiring diagram is a typical wiring diagram of the junction box. Customers can conduct wiring according to the local electrical regulations according to the number of terminals.

1



2

Recommended
Expansion bolts: M6x60 or M8x60
(not provided)



M6x60 4pcs

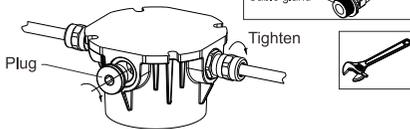


M8x60 4pcs

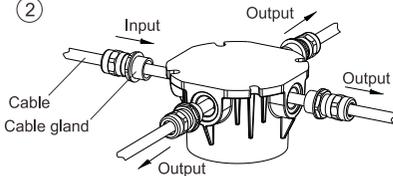


3

①



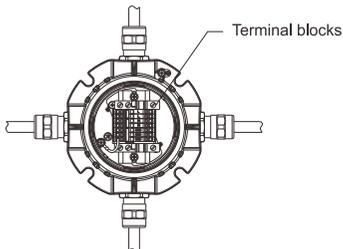
②



Cable and Cable gland
are not provided

- ⚠ 1. Please remove the unwanted plugs (if any) when adopting loop-in and loop-out connections.
2. Customers can determine the specific entry and exit line locations according to their needs.

③



- ⚠ In compliance with local electrical codes, refer to the wiring diagram for wiring.

⚠ **Notice:**

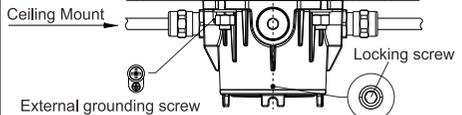
- Use heat resistant cables and glands (rated 90°C).
- Corrosion inhibiting grease, such as high and low temperature grease 7017-1B, may be applied to joint surfaces before assembly. It does not harden because of aging, does not contain evaporating solvent and does not cause corrosion of joint surfaces.
- Shall use certified cable glands with suitable type of protection for installation purpose. Minimum IP66 for chosen cable glands.
- Cable entry should be blocked with plugs when not in use.

4

①

Please tighten the
cable gland and plug
(if there are any) to
make sure the fixture
is IP66

②



Seat Type Mount

Wall Mount

⚠ **Notice:**

- Connect the grounding wire (the cross-sectional area of the wire is not less than 4mm²) to the external grounding screw of the product.

