



ATRIA

Installation and utilization instruction for Explosion protected LED Lighting



To observe the terms and conditions of the
product guarantee, please refer to Golnoor's website

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All work on this Ex-instrument must be carried out only by qualified specialist personnel following IEC 60079-14. Any subsequent modification must be within the framework of this operating manual. The target group of these instructions is electrical specialists and suitably trained staff following IEC 60079-14. The operating permit expires in the event of non-compliance!

1. Safety instructions

Storage of the instructions

Read the operating manual carefully and keep them at the place where the luminaire is fitted. In order to ensure correct operation, note the contents of all the documentation included with delivery and the operating manual for all the components which are connected.

Use the luminaire only for the intended and authorized purpose!

Golnoor does not accept any liability whatsoever for any damage which is caused by faulty or unauthorised use or by failure to follow the operating manual.

The luminaire must only be used in an undamaged condition.

No unauthorised work on the luminaire!

Installation, maintenance, servicing and troubleshooting procedures must only be carried out by personnel who are authorised to do so and have been trained accordingly.

Please note the following instructions for installation and operation:

- Damage may result in the loss of explosion protection
- National and local safety regulations
- National and local accident prevention regulations
- National and local mounting and installation regulations
- State of the art technology
- The safety information contained in these operating manual
- Information and type plates on or inside the luminaire

Function

The luminaire is certified and must only be used in explosive-endangered areas within the framework of full certification

Earthing/Protective conductor terminal

Explosion-protected luminaires must be earthed by the specifications in IEC 60079 ff.,

IEC 61439 ff. and IEC 60364-5-54.

Potential equalization must be carried out in all cases. The luminaire always provides for an internal and/or external earth connection.

- The cables must be laid fixed in position and close to the luminaire.
- All metal parts – irrespective of operating voltage – must be integrated into the protective conductor system and by the current applicable standards.

Cable and wire entries, blanking plugs

In accordance with IEC 60079-0 appendix B, use only tested and certified cable and wire entries and blanking plugs.

IEC 60079-17 states that you, as the installer and/or maintenance specialist, are obligated to check that the cable entries and blanking plugs have the required tight fit before commissioning and/or to ensure the required tight fit in accordance with the information provided by the manufacturers of the cable glands. In addition, take into account the requirements specified in IEC 60079-14.

Installation

For setting up and operation, the relevant IEC norms and national regulations in respect of equipment safety acts and the latest state-of-the-art technology are decisive.

The electrical connection of the equipment must only be carried out by specialist staff (IEC 60079-14).

During installation, always ensure that there is a conductive or dissipative connection to the protective earth. The earthing points in and on the luminaire must be used. For aluminum luminaire, stainless steel, following removal of the plastic plugs in the base, mounting must take place using plastic-enclosed tooth lock washers (in the accessory pack).

For installation, which is suitable for IP protection, use only original Golnoor mounting materials

Incorrect installation and operation of luminaires which are protected against explosions may result in the loss of the type of luminaire protection.

Repairs that affect explosion-proofing must only be carried out by Golnoor or a qualified electrician and in accordance with the product safety ordinance and currently valid legislation (IEC60079-19).

2. Mounting, mounting position

In the event of exposure to the open air and the elements, we recommend fitting the explosion-protected equipment with a protective roof or wall.

3. Initial operation

Before initial operation, always ensure that:

- the luminaire and seals are undamaged.
- the cable glands are undamaged.
- the luminaire has been installed in accordance with the regulations.
- there are no foreign bodies in the luminaire.
- all connections which can be loosened are tightened tightly.
- electrical connection has been carried out correctly.

4. Maintenance, servicing and troubleshooting

The type and extent of the tests must be determined in accordance with the relevant national regulations. The periods of times for tests must be arranged in such a way that any defects which must be expected can be determined in good time.

As soon as you have approved the luminaire for use as an electrical device, note the following:

Danger of electrical shock!

Disconnect the power supply before opening the device.

During servicing, check the following:

- the luminaire and seals are undamaged.
- the cable glands are undamaged.
- the luminaire has been installed in accordance with the regulations.
- there are no foreign bodies in the luminaire.
- all connections which can be loosened are tightened tightly.
- electrical connection has been carried out correctly.
- any corrosion to the contacts.

5. Disposal

Always follow the national regulations in respect of waste disposal.

6. Standard conformity

This equipment has been tested and certified for use in explosive-endangered areas in accordance with:

- Directive 2014/34/EU
- IEC 60364
- EN/IEC 60079-0; EN/IEC 60079-7; EN/IEC 60079-31

The most up-to-date conformity declarations and product certificates can be found on our website: www.golnoor.com

The luminaires are suitable for use as basic components for use in explosion-endangered areas in zones 1, 2, 21, and 22.

7. Technical data

The technical data are expressed in general terms and must always be checked regarding the individual's intended use

Manufacturer : Golnoor

Luminaire material : Aluminum

Permissible operating temperature range : max. -20°C to +55°C
(see luminaire specification)

Ingress protection : IP66

Lid and luminaire base must be screwed firmly together (on the block) to comply with the IP protection type.

1- luminair adjustment for bracket mounting

Prepare the conductor as the drawing before connect it to the earth screw.

2- external earth

Prepare the conductor as the drawing before connect it to the earth screw.



		Certificate number/marking
aluminum	atex	ECM 23 ATEX 6134 X



Certificato di esame UE del tipo

EU-type examination certificate

ECM 23 ATEX 6134 X

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B
Issued according to 2014/34/EU Directive – Annex III - Module B



Richiedente

Applicant

Ragione Sociale

Golnoor

Company Name

Indirizzo

No. 9, Golnoor Bldg., North Sheikh Sadough Ave., Ferdosi Brdg., Isfahan, Iran

Address

Luogo di produzione

No 5 St., Oshorjan Industrial Zone., Isfahan, Iran

Place of production

Apparecchiatura

Flameproof flood light (LED lighting fixture)

Equipment

Type of production ATRIA (ATRO0100-00 & ATR0200-01)

Modo di protezione

Ex db, Ex eb, Ex tb

Type of protection

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso.

This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva.

ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n° PRD-2023-GSU34.

The examination and test results are recorded in confidential report no. PRD-2023-GSU34.

I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle Norme applicate: EN 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014, EN 60079-7:2015.

The essential health and safety requirements are assured by compliance with applied Standard: EN 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014, EN 60079-7:2015.

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato.

This EU-type examination certificate relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols: II 2G Ex db eb IIC T6 Gb
II 2D Ex tb IIC T85°C Db

Valsamoggia (BO)

Data - Date 14/11/2023

Timbro



Firma autorizzata

Authorized signature

Amanda Payne

(Deputy Manager)

Scadenza - Expiry date 13/11/2028

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.
This certificate, annex included, can only be reproduced in its entirety and without any change.

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Ente Certificazione Macchine srl

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Allegato I

Annex I

ECM 23 ATEX 6134 X

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B
Issued according to 2014/34/EU Directive – Annex III - Module B



Description of equipment:

The lighting fixture series ATRIA are electrical equipment protected by Ex db, Ex eb, Ex tb enclosure, designed suitable for use in presence of gas or dust explosive atmosphere.

The lighting fixture are composed of a flameproof enclosure with a window manufactured in tempered glass secured to threaded metallic ring by cemented joint.

The glass window is assembled to main body by threaded joint.

An increased safety terminal box is present and separated from the flameproof enclosure by means of a cemented bushing.

The metallic parts of Exd enclosure and terminal box are manufactured in aluminum alloy.

The flameproof enclosure contains the LED board and the electronic supply circuit. Into the increased safety enclosure only the connection terminals are present.

Marking:

Ex db eb IIC T6 Gb

Ex tb IIC T85°C Db

Type descriptions:

Ref. code	No. of fixtures	Maximum permitted power value	size
ATRO0100-00	1	100 w	250x250x 170mm
ATRO0200-01	2	200 w	500x250x170mm

Degree of protection (IP) by enclosures: IP66 / IP67

Schedule of limitations (Special Condition for Safe Use)

- The Atria is designed and tested for ambient temperature of -20°C to +55°C.
- For the entry, the user (consumer of the product) must use M20x1.5 or M25x1.5 flameproof glands to assemble the cable / conduit to the product, the related gland will also be selected, supplied and installed on the product by the user.
- External earthing shall be provided by connection to the provided connection.
- The wire or cable insulation temp rating shall exceed 85°C.

Routine Test:

Each Produced enclosure shall be subjected to the routine overpressure test at 8.4 bar for at least 10s as required by EN 60079-1:2014. There shall be no permanent damage or deformation.

WARNING LABEL:

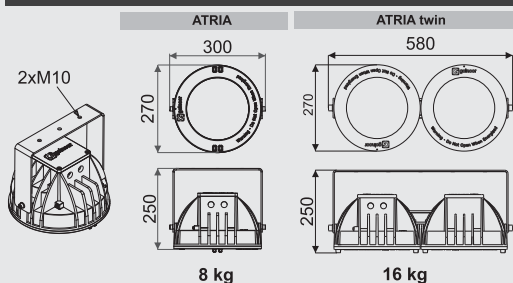
"WARNING – DO NOT OPEN WHEN ENERGIZED"

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Ente Certificazione Macchine srl

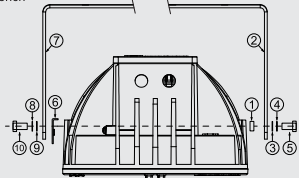
Via Ca' Bella 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO)
+39 0516705141 +39 0516705156 ecm@entecerma.it www.entecerma.it

General conditions



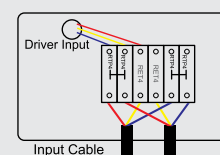
Install items in order and adjust the hexagonal screw manually

- Place the washer and the screw in the yoke.
- Adjust desired angular position of the yoke and tighten screw until the bracket is locked.
- Adjust screws strongly with a wrench



Wiring Diagram

For 1 Ex Lighting with through wiring



For 2 Ex Lighting with through wiring

