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Product manual EVx series
Handleiding EVx series

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Purpose of these instructions

- Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.
- Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.
- These instructions give a brief summary of the most important safety measures. It supplements the corresponding regulations which the staff must study.

SAFETY INSTRUCTIONS

- Use the explosion-proof lighting fixtures only for its intended purpose.
- Explosion-proof lighting fixtures are not suitable for Zone 0 hazardous areas!
- Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.
- No changes to the device impairing its explosion protection are permitted.
- Use the fixtures only if they are clean and undamaged, any damage can invalidate the Ex-protection.
- Observe the following during installation and operation:
  - National safety regulations;
  - National accident prevention regulations;
  - National installation regulations (e.g. IEC 60079-14);
  - Generally recognized technical regulations;
  - Safety guidelines in these operating instructions;
  - Characteristic values given on the lighting fixtures.
- Regular cleaning to prevent the formation of dust layers larger than 5 mm
- Do not dispose of the device and its components in the environment.

Conformity to standards

The explosion-proof components are designed and manufactured according to standard of ISO 9001.
The explosion-proof components are conformity to the directive 94/9/EC, ATEX and the following standards:

EN60079-0 : 2012+A11 (2013)
EN60079-1 : 2014
EN60079-31 : 2014
EN60529

Applicable scope

Evx Series lighting and signal units can be used in zone 1, 2, 21 and 22

Technical data

Ex mark Ⓔx II 2 G Ex db IIC T6..T3 Gb
Ⓔx II 2 D Ex tb IIIC T85°C..T200°C Db
Test certificate Ineris 01ATEX0072X (03)
Degree of protection IP66

Ambient temperature: -20°C⩽Ta⩽+40°C
-20°C⩽Ta⩽+60°C

Maximum voltage: 48 VDC / 440 VAC

The cable must be entered through a cable gland with certification Ex db Gas and Dust. The profile of the cable input is N - 3/4 "NPT or M - M25x1.5 mm metric.

Use wire at least 1.5 mm in diameter for phase and ground. De-energize the unit before opening the housing. Before closing the housing, check that the connections are free of dirt, dust and/or deformation.
Only when using LED, Multiled and xenon lamps, PVC insulation cable is permitted. For other light sources, check the maximum temperature and adjust the cable accordingly.
No changes or repairs may be made to the fixtures without the consent of Index Elektro bv. Light sources may only be exchanged for the same types.

Installation

After you have connected the cable and inserted the light source check and if necessary replace the o-ring. Then lubricate the lamp thread with acid-free cilicone grease. Finally insert the anti-loss socket bolt.

EVA lighting is available in the following types:

* EVA - Pendant lamp
* EVC - Ceiling lamp
* EVJ - Sloping wall lamp
* EVP - Portable lamp
* LPA - Suitable for aviation

Replaceing off the light source

To replace the lamp, proceed as follows:

1 - Loosen the antie loss screw located on the upper lamp section
2 - Remove the upper part of the fixture by turning it counterclockwise .
3 - Unscrew the lamp - (turn counterclockwise) to remove it from the fitting.
4 - replace the lamp
5 - Check the O-ring and coat the threads with acid-free cilicone grease and screw both parts of the fixture back together.
Insert the antie loose socket screw
6 - Clean the fixture if necessary reassemble the unit - Use only mild, non-abrasive cleaners.
The glass of the fixture should be inspected regularly for scratches and chips and if damaged, replace the fixture.

Maintenance

To prevent ignition of a hazardous atmosphere, disconnect the fixture from the power circuit before opening it.
Keep the fixture closed when in use. Any maintenance should be done with the power turned off.
Never modify anything on the unit in any way safety in hazardous locations may be compromised if additional openings or other modifications are made to units specifically designed for use in these locations.

The nameplate may contain warnings or other information of interest to service personnel and must not be concealed in any way

Tabel

Type number	Light source	Ambient temperature	Temperature class	T. class cable	Voltage
EVA 50-5 EVC 50-5	Multiled 9W	-20 to +40°C	T6 / T85°C		110 .. 230 V AC/DC 48 VDC 12.. 24 V AC/DC
EVA 50-8 EVC 50-8	LED 17W	-20 to +40°C	T6 / T85°C		230 VAC 115 VAC 24 VDC
EVA 50-9 EVC 50-9	High efficiency programmable LED	-20 to +40°C	T6 / T85°C		24 VDC
EVA 50 SC EVC 50 SC	Continuously LED - 5W various colours	-20 to +40°C	T6 / T85°C		230 VAC
EVA 50 SF EVC 50 SF	Miniflash Xenon 6 Joule - 4.5W	-20 to +40°C	T6 / T85°C		230 VAC 115 VAC 24 VDC
EVA 50 L EVC 50 L EVP 50 EVJ 50	LED lamp max - 17W Fluorescent compact - 15W Fluorescent compact - 20W Halogen lamp - 42W Halogen lamp - 100W	-20 to +40°C	T6 / T85°C T6 / T85°C T5 / T100°C T5 / T100°C T3 / T200°C	Cable 190°C	230 VAC
EVA 100 L	Halogen lamp - 150W Mercury vapour - 80W	-20 to +40°C	T3 / T200°C T3 / T200°C	Cable 190°C Cable 190°C	230 VAC
EVA 200 L	Halogen lamp - 200W Mercury vapour - 125W	-20 to +40°C	T3 / T200°C T3 / T200°C	Cable 210°C Cable 210°C	230 VAC