

1. PURPOSE

Explosion proof pendant lighting fitting type 0401.35 is intended for use in industry areas endangered by flammable and explosive mixtures of gases and air, fumes of flammable liquids and air, or various combinations between the two, in danger zones 1,2 in ordinance with standards IEC 60079-10.

2. TYPE OF PROTECTION

Explosion protection is achieved by the use of requirements of the protection types: "Flameproof enclosure" in accordance with HRN EN 60079-1, "Increased safety" in accordance with HRN EN 60079-7 and "General requirements" in accordance with HRN EN 60079-0.

Category and explosion-protection: **II 2G Ex ed IIC T2 ili T3**

Environment temperature: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Degree of protection (IP Code): IP 54 in accordance with EN 60529+A1, category 1

Resistance to shock: IK 08 in accordance with EN 62262

Insulation class : I (protective earthing) in accordance with EN 61140+A1

HR-Type Examination certificate No.: HREx T 06.011

3. MODEL CODE

Below is shown temperature class of lighting fitting in accordance with maximum power consumption, type and rated voltage of lightbulb, and thermostability of connecting cable which must be used:

T2

- 200 W max. DIN 49810 B1.4 (lightbulb with ∇ marking) / 230 V AC
CABLE THERMOSTABILITY HIGHER THAN 110 °C
- 100 W max. EN 60064 (standard lightbulb) / 230 V AC, 110 V AC
CABLE THERMOSTABILITY HIGHER THAN 100 °C
- 100 W max. EN 60064 (standard lightbulb) / 60 V AC/DC, 48 V AC/DC, 24 V AC/DC
CABLE THERMOSTABILITY HIGHER THAN 90 °C

T3

- 60 W max. EN 60064 (standard lightbulb) / 230 V AC, 110 V AC, 60 V AC/DC,
48 V AC/DC, 24 V AC/DC
CABLE THERMOSTABILITY HIGHER THAN 90 °C

4. TECHNICAL DATA

Rated voltage:	max. 250 V AC
Lightbulb voltage:	230 V AC, 110 V AC, 60 V AC/DC, 48 V AC/DC, 24 V AC/DC
Lightbulb:	100 W max. EN 60064 200 W max. DIN 49810 B1.4
Lampholder:	E 27, EN 60238
Luminous flux:	3040 lm/200W, 1360 lm/100W, 710 lm/60W
Connecting terminals:	L, N - max. 4 mm ² terminal for protective earthing conductor connection -PE; max 2 x 6 mm ² stranded solid, stranded, flexible
Cable entries:	2 entries - M25x1,5 EN 60423
Cable gland and plug:	One Ex e cable plug M25x1,5 type SPU 25 for cables Ø, 6-15 mm, and one Ex e plug M25x1,5 type SPC 25 – are parts of lighting fitting
Tightening torque:	Lightbulb into E27 lampholder: 1,5 Nm Nut of »T« screw M6x50 for closing of enclosure: 4 Nm Screw of connecting clamp of E27 lampholder: 1,8 Nm Cable gland screw EEx e II: 2,5 Nm Cable gland EEx e II body and plug: 3,5 Nm
Dimension:	340 x ø 210 mm (DxŠ)
Mass:	ca 3,70 kg
Marking:	CE

5. ASSEMBLAGE AND ELECTRIC CONNECTION

Assemblage and installation is done according to technical and certification data on warning labels on lamp, this user manual of manufacturer, national regulations and laws. Only with that, explosion-proof protection of lighting fitting is ensured with EC-type examination certificate.

Lighting fitting can be installed like pendant, or trough eyelet Ø 15 mm on top of enclosure. **Opening of Ex e enclosure is allowed only in a non-voltage state**, by unscrewing „T“ screw M6x50 with wrench number 10. Connection cable is introduced in Ex e casing trough M25x1,5 Ex e cable gland.

Cable must be clean and undamaged. Special attention must be dedicated to selection of inner gasket sealing ring of Ex e cable gland according to diameter of connecting cable. Gland screw and gland body with threads must be tightened with torque regulated by manufacturer. Unused cable introduction must be closed with Ex e M25 plug. The electric connection is performed by linking power supply cable (L, N, PE) on the lampholder E27 connecting clamps and tightening the screws of connecting clamps with tightening torque regulated by manufacturer.

Special attention have to be on following:

- **lightbulb must be choosed correctly according to temperature class and ambient temperature, taking into account rated lightbulb voltage, power, and lamp type,**
- **type of connecting cable must be choosed correctly according to ambient temperature and lightbulb wattage, taking into account cable temperature class.**

The closing of the Exe enclosure should be done by a reverse sequence of action.

6. CONTROL, MAINTENANCE AND REPAIR

It is necessary to conduct review and maintenance on all parts on which the explosion proof protection depends in accordance to standards IEC 60079-17, general and individual demands of the manufacturer and the regulations of the user, and especially:

- that the casing, the protective glass and the gaskets are completely without a cracks or damage,
- that the Exe gland and gasket, connecting terminals, lightbulb, and »T« screw are tightened with torque regulated by manufacturer.

Maintenance presume replacing of parts which are delivered by manufacturer as a spare parts.

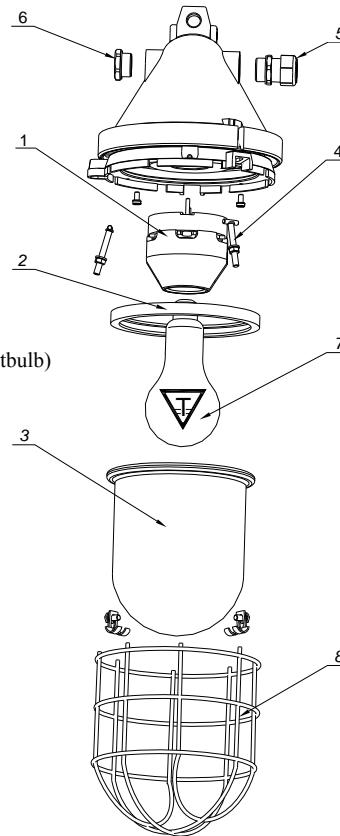
All other interventions on lamp have attribute of a repair. The repair of the lamp is done by the manufacturer or a person legally authorized by the manufacturer, with original parts from the products documentation, and in accordance to the IEC 60079-19 standards. If the repair is done by a third person, the manufacturer is free of all responsibility from the product, and the declaration of conformity which is given by the manufacturer becomes insignificant.

Spare parts:

1. EEx E27 lampholder, type 73.91.50
2. Glass gasket 0403.24
3. Protective glass 0403.24
4. „T“ screw M6x50, set

Accessories:

5. II 2G EEx e II cable gland M25x1,5, type SPU 25
6. II 2G EEx e II plug M25x1,5, type SPC 25
7. Lightbulb 200W,100 W / 230V - DIN 49810 Bl.4 (with ∇ marking)
7. Lightbulb 100 W, 60 W / 230 V, 110 V, 60 V, 48 V, 24 V - EN 60064 (standard lightbulb)
8. Protective grid 0401.35, set



7. STORAGE AND TRANSPORT

Transport and storage is only allowed in the original packaging, on the way pointed out on the carton box.

8. RESPONSIBILITY AND AUTHORIZATION

Responsibility and authorization are defined by the "Regulation on technical supervision over the electrical stations, installations and equipment intended for usage in potentially explosive atmospheres". This Manual represents the most relevant information about the product. Adequate national laws and regulations supplement it. The person in charge is required to secure its employment in the industrial unit. Every improper usage, as well as every unofficial restructuring, repair or restoration of the product, release the manufacturer of all responsibilities.