

Technical conditions for mounting series

PITBUL-Ex-LED, PITBUL-Ex-LED-Em, MULTIPITBUL-Ex-LED a PITBUL-Ex-LED-FROST

In case of any erving on light fitting in premises with danger of explosion, the national safety rules and regulation for prevention of accidents are to be observed. The light fittings must not be installed simultaneously in premises with danger of explosion of inflammable dust and inflammable gas and vapors. The light fittings are not suitable for zone 0 hazardous area.

PITBUL-Ex-LED	- are dustproof and waterproof lighting fixtures designed for the lightening premises with danger of explosive.
PITBUL-Ex-LED-Em	- non-maintained emergency lighting.
MULTIPITBUL-Ex-LED	- maintained emergency lighting.
PITBUL-Ex-LED-FROST	- lighting fixtures designed for the lightening premises with danger of explosive to the temperature -40°C

Mounting instructions:

1. Unbolt the screws on glass cover and remove it.
2. Unbolt the screws of reflector and take it from the housing.
3. Fasten the lighting fixture on the base by means of one of allowed fastening possibilities.
4. Pull the power cable through the cable gland. Tighten bushings to a state of partial deformation of the rubber sealing washers, tightening torque 2,5Nm. Supply cable must have an outer diameter in the range (see. Table no.2 List of cable glands, which is a necessary condition for correct function of cable gland.
5. Plug in the supply cable into the free part of the feeding terminal block as follows:

PITBUL-Ex-LED	PITBUL-Ex-LED-Em	MULTIPITBUL-Ex-LED
PITBUL-Ex-LED-FROST		
On connector L1 - phase conductor	On connector L1 - cond. of charging phase	On connector L1 - cond. of charging phase
On connector N - neutral conductor	On connector N - neutral conductor	On connector L2 - cond. of switching phase
On connector PE - protective conductor	On connector PE - protective conductor	On connector N - neutral conductor
		On connector PE - protective conductor

Look out for the right wire stripping (9 – 10 mm) and conductor engagement into the terminal block. The terminal block is adjusted for the connection of conductors with diameter up to 4 mm². In case of the through wiring connection, observe the possible maximum number of light fittings.

6. Insert the reflector back to the body and lock with screws. Tightened moment is 0,5Nm.
7. Close the glass and tight the screws.

Test of operation emergency luminaire:

For correct operation it is necessary to observe enclosed instruction about testing of emergency fixtures. Switch the luminaire off the mains voltage. The emergency LED module must light. The green LED in the reflector is off. Should the emergency lamp be extinguished within the test period though the battery is fully charged, the latter will have to be replaced by a new battery set.

Warning: The full capacity of battery will be reach after approximately three charging/discharging cycles.

Table no.1: Light output of luminaire in emergency mode

Luminaire	Light output in emergency mode for types 3000K/ 4000K/ 6000K
MULTIPITBUL-Ex-LED-4000-218, 1,5h	489lm/ 506lm/ 515lm
PITBUL-Ex-LED-Em-600-218, 1,5h	
MULTIPITBUL-Ex-LED-4000-218, 3h	358lm/ 371lm/ 385lm
PITBUL-Ex-LED-Em-400-218, 3h	
MULTIPITBUL-Ex-LED-8000-418, 1,5h	708lm/ 733lm/ 746lm
MULTIPITBUL-Ex-LED-8000-418, 3h	385lm/ 399lm/ 406lm
MULTIPITBUL-Ex-LED-8000-236, 1,5h	786lm/814lm/ 829lm
PITBUL-Ex-LED-Em-900-236, 1,5h	
MULTIPITBUL-Ex-LED-8000-236, 3h	432lm/ 447lm/ 455lm
PITBUL-Ex-LED-Em-500-236, 3h	
MULTIPITBUL-Ex-LED-16000-436, 1,5h	786lm/814lm/ 829lm
MULTIPITBUL-Ex-LED-16000-436, 3h	432lm/ 447lm/ 455lm

Warning for the mounting of PITBUL-Ex-LED, PITBUL-Ex-LED-Em, MULTIPITBUL-Ex-LED a PITBUL-Ex-LED-FROST:

The fitting can be installed only by authorized person.

Producer included in recycling system provided by EKO-KOM Company. (EK-F06070058)

The light source in this lighting fixture can be replaced only producer or its contractual service technique or a similary qualified person.

WARNING - potential danger of electrostatic charging

WARNING - the lighting fixture must be installed in the position, which does not allow the touch of persons and parts of the fixture

WARNING - the lighting for fixed installation

WARNING - Do not open when energized!

WARNING - Do not open when an explosive atmosphere may be present.

WARNING - Any change or replacements of components of the light fittings, which can influence the protection before the danger of explosion, are forbidden

WARNING - The operation with cracked cover is forbidden, replace the damaged cover immediately!!!

In PITBUL-Ex-LED, MULTIPITBUL-Ex-LED, PITBUL-Ex-LED-Em, PITBUL-Ex-LED-FROST light fittings, you can use through-wiring connection supplied by the producer of the light fittings.

In the PITBUL-Ex-LED-FROST luminaires must be used cable gland with temperature resistance between -40°C to +60°C.

When the mounting instructions are not observed, the producer can't be responsible for incidental damages incurred.

The light fitting can be fastened with several possible methods:

- through the background by means of screws M8 (picture 1)
- with ceiling bracket (no included) (picture 2)
- with bracket grip (no included) (picture 3)
- with recessed frame (no included) (picture 4)
- with suspension bracket M8 (no included) (picture 5)
- with pole bracket (no included) (picture 6)

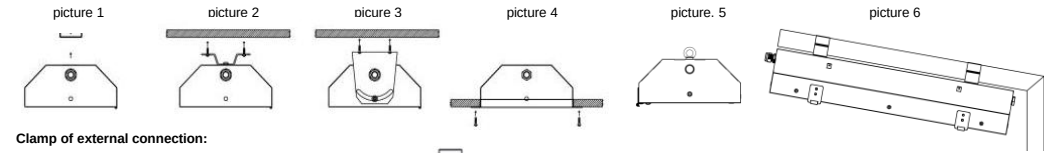
Maintenance:

WARNING – the fixture should be cleaned with damp duster only. It is necessary to keep periodic cleaning intervals of lighting fixture.

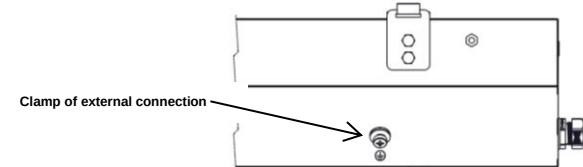
Table no.2: Table sealing areas for different types of cable glands

Cable glands	Diameter of the cable for cable glands M20x1,5
OBO V-TEC Ex	Ø7-12mm
CEAG CHG 960 92...P...	Ø5,5-13mm
WISKA ESKE1 (S)(-L)(-+)(-RDE)	Ø7-13mm
ELFIT UNI	Ø7-12mm

Possibilities of installation luminaire:



Clamp of external connection:



Application of light fittings:

The explosion proof light fittings meet the standards according to the EU instructions 2014/34/EU and UK Statutory Instrument 2016 No.1107

They can be used in areas with danger of explosion according to the following chart:

Area with danger of explosive	Marking of exterior ambient	Marking	Classification of area
Danger of explosion of inflammable dust	BE3N1	ZONE 21, ZONE 22	Compulsory regulation CSN EN 60079-14/ BS EN 60079-14 CSN EN 60079-10-2/ BS EN 60079-10-2
Danger of explosion of inflammable gas and vapors	BE3N2	ZONE 1, ZONE 2	CSN EN 60079-14/ BS EN 60079-14 CSN EN 60079-10-1/ BS EN IEC 60079-10-1

Technical data:

Admissible range of operating temperature PITBUL-Ex-LED	4000/8000 218/236	Ta -20°C až +60°C
Admissible range of operating temperature PITBUL-Ex-LED	8000/16000 418/436	Ta -20°C až +55°C
Admissible range of operating temperature MULTIPITBUL-Ex-LED	4000/8000 218/236	Ta 0°C až +40°C
Admissible range of operating temperature MULTIPITBUL-Ex-LED	8000/16000 418/436	Ta 0°C až +35°C
Admissible range of operating temperature PITBUL-Ex-LED-Em	600/400/900/500 218/236	Ta 0°C až +50°C
Admissible range of operating temperature PITBUL-Ex-LED-FROST	4000/8000 218/236	Ta -40°C až +60°C
Admissible range of operating temperature PITBUL-Ex-LED-FROST	8000/16000 418/436	Ta -40°C až +55°C
Protection level: IP65		
Insulation class: I		
Rated voltage and frequency:	for ballasts BAREL HFX and HFXE LED	110-254V, 50/60 Hz, 220-250V, 0 Hz

The fixtures are certified by FTZÚ - AO 210, Ostrava - Radvanice:

- 1) Certificate type FTZÚ 16 ATEX 0089X
- 2) Supplement No. 1 to certificate FTZÚ 16 ATEX 0089X from date 22. 2. 2019
- 3) Supplement No. 2 to certificate FTZÚ 16 ATEX 0089X from date 26. 1. 2021
- 4) Supplement No. 3 to certificate FTZÚ 16 ATEX 0089X from date 30.01.2026

Marking luminaires:

- ⊕ II 2G Ex db eb mb op is IIC T4 Gb - with off-load switch
- ⊕ II 2G Ex eb mb op is IIC T4 Gb - without off-load switch
- ⊕ II 2D Ex tb op is IIC T67°C Db

Maximum admissible number of PITBUL-Ex-LED, MULTIPITBUL-Ex-LED, PITBUL-Ex-LED-Em, PITBUL-Ex-LED-FROST light fittings with through wiring connection for circuit breaker B10:

PITBUL-Ex-LED-4000/8000/16000-218/236/418/436	15	MULTIPITBUL-Ex-LED-4000/8000/16000-218/236/418/436 PITBUL-Ex-LED-Em-600/400/900/500	13
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Dimensions of mounting holes for recessed frames:

Type of luminaire	Hole dimension	Type of luminaire	Hole dimension
236	135x3x323mm	218	742x323mm
436	135x3x383mm	418	742x383mm

Battery change:

Battery change is necessary when the fixture doesn't observe the conditions of rated operation period durability. In explosive area it is prohibited to disconnect battery for emergency unit. It is allowed to disconnect the fixture from supply voltage and take remove reflector from the fixture.

1. Disconnect the fixture from supply voltage.
2. Unbolt the screws on glass cover and remove it.
3. Unbolt the screws of reflector and take it from the housing.
4. Disconnect battery from emergency unit in non-explosive area as follows „-“black conductor and „+“red conductor.
5. Remove the old battery.
6. Screw the new battery (mark the date of operation start).
7. Connect conductors to battery as follows „+“red conductor and „-“black conductor.
8. Insert the reflector back to the body and lock with screws. Tightened moment is 0,5Nm.
9. Close the glass and fasten it properly.
10. Connect the fixture to the supply voltage.

WARNING: The battery in the fixture can be changed for the same type or the same parameters only!!

Basic instructions:



For users of luminaires



For users of emergency luminaires



For DALI system users