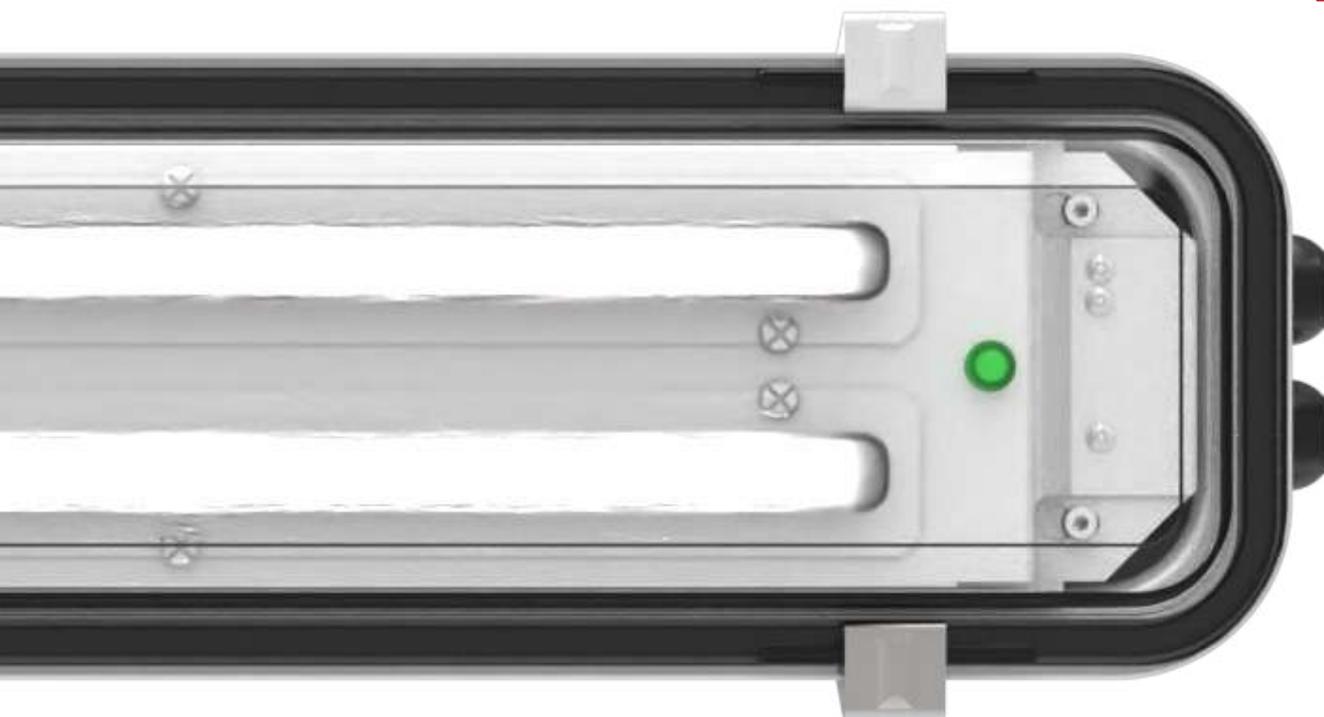


ZONE 1,21&2,22

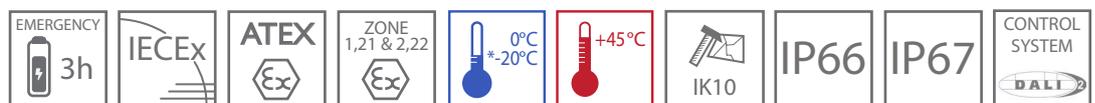


EMERGENCY LIGHT FIXTURE EXF300LED-A3





KDB 15ATEX0049X
IECEX KDB 20.0003X



* - check the operating conditions of the luminaire at sub-zero temperatures on page 5.

EX MARKING:

II 2G Ex eb mb IIC T5 Gb
II 2D Ex tb IIIC T55°C Db or T70°C Db

EXEMPLARY APPLICATIONS



REFINERIES



OFFSHORE



CHEMICAL
PLANTS



CHEMICAL
WAREHOUSES

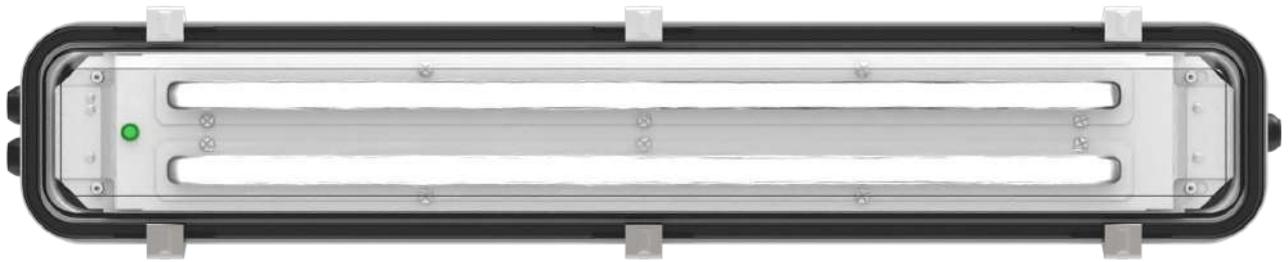


PASSAGeways
IN EX ZONES

Explosionproof light fitting with **LED modules** for suspended coffered ceilings or to be mounted on the ceiling surface. Designed to work in the zone **1.21 & 2.22** of the explosion hazard of gases, vapors and mists of flammable liquids with air, as well as of flammable dusts and fibers. The housing is made of powder coated steel or stainless steel.

Optional version with autonomous **A3** power source.
Optionally the luminaire can be equipped with DALI-2 driver **DA**.

FEATURES



MECHANICAL PARAMETERS

	housing	powder coated stainless steel (NIRO)
	diffuser	UV stabilised polycarbonate (PC)
	ingress protection	IP67
	protection class	I
	impact resistance	IK10
	mounting	using brackets check: mountings

ELECTRICAL PARAMETERS

2,5 mm ²		connection terminals
34E: 220-240V 50-60Hz, 25E: 110-254V 50-60Hz, 220-250V 0Hz		input voltage
intrinsically safe LED modules		light source
>0,95		power factor
Ø20 (wire 6-13mm) Ø25 - optionally (wire 9-17mm)		cable inlets
1kV (L-N) 2kV (L-PE)		overvoltage protection

WORK PARAMETERS

	ambient temperature	0°C (*-20°C) to +45°C * - check the operating conditions of the luminaire at sub-zero temperatures on page 5.
	lifetime	>100.000h L ₈₀ B ₅₀

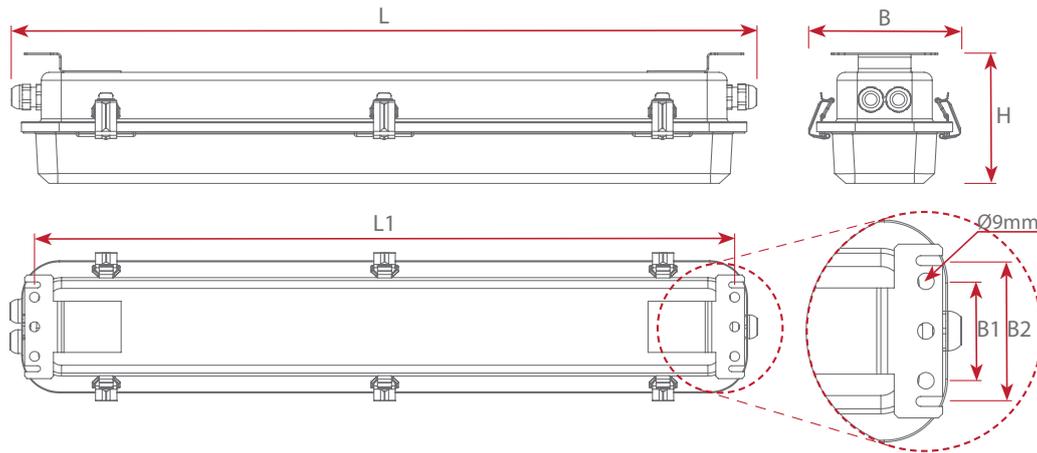
PHOTOMETRICAL PARAMETERS

>85		CRI
4000K 6500K - option		colour temperature



As a standard, the housing is equipped with a 21 gland system (two glands on one side and one on the other side of the housing). This housing can be used both as a terminal and a cross-type (both sides or one side). The glands are equipped with sealing plugs, which should be left in place if the glands are not used. For luminaire type 0600, the gland arrangement 20 is available for glands with a size of Ø20. For glands with a size of Ø25 and luminaire type 0600, the gland arrangement 10 should be used.

DIMENSIONS



TYPE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	B2 [mm]	H [mm]	weight [kg]
EXF300LED-0600	730	704	150	60	85	134	5,3
EXF300LED-1200	1340	1314	150	60	85	134	8,5

STANDARD TYPES COMPARISON

⚡ Voltage 220-240V 50-60Hz (34E) **A3**

II 2G Ex eb mb IIC T5 Gb
II 2D Ex tb IIIC T55°C Db

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. TEMP. [°C]
EXF300LED-0600-FX1	2806	21,2	132	45
EXF300LED-0600-FX2	5435	38,6	141	45
EXF300LED-1200-FX2	5561	38,6	144	45
EXF300LED-1200-FX4	10837	74,0	146	45

II 2G Ex eb mb IIC T5 Gb
II 2D Ex tb IIIC T70°C Db

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. TEMP. [°C]
EXF300LED-0600-GX2	3507	25,3	139	45
EXF300LED-1200-GX2	3560	25,3	141	45
EXF300LED-1200-GX4	6969	47,0	148	45

OPTIONAL TYPES COMPARISON

⚡ Voltage 110-254V 50-60Hz; 220-250V 0Hz (25E) **A3**

II 2G Ex eb mb IIC T5 Gb
II 2D Ex tb IIIC T55°C Db

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. TEMP. [°C]
EXF300LED-0600-FX1	2806	21,2	132	45
EXF300LED-0600-FX2	5435	38,0	143	45
EXF300LED-1200-FX2	5561	38,5	144	45
EXF300LED-1200-FX4	10837	75,6	143	45

II 2G Ex eb mb IIC T5 Gb
II 2D Ex tb IIIC T70°C Db

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. TEMP. [°C]
EXF300LED-0600-GX2	3507	25,3	139	45
EXF300LED-1200-GX2	3560	25,3	141	45
EXF300LED-1200-GX4	6969	47,0	148	45



Luminous flux tolerance +/- 10%
Power tolerance +/- 10%
The parameters given in the following data sheet has been determined for the temperature $T_a=25^{\circ}\text{C}$.

Luminous flux, light intensity distribution and efficiency has been tested on the basis of the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

The actual data and General Warranty Conditions are available on our website www.atmlighting.pl

EMERGENCY VERSION



Emergency power module:

Version with 3h emergency power module.

A3

During the battery charging, the power consumption increases by 3W.

MEAN EMERGENCY LUMINOUS FLUX		⚡ 34E
TYPE	LUMINOUS FLUX [lm]	
EXF300LED-0600-FX1	600	
EXF300LED-0600-FX2	679	
EXF300LED-0600-GX2	769	
EXF300LED-1200-FX2	697	
EXF300LED-1200-FX4	479	
EXF300LED-1200-GX2	772	
EXF300LED-1200-GX4	638	

MEAN EMERGENCY LUMINOUS FLUX		⚡ 25E
TYPE	LUMINOUS FLUX [lm]	
EXF300LED-0600-FX1	361	
EXF300LED-0600-FX2	351	
EXF300LED-0600-GX2	385	
EXF300LED-1200-FX2	342	
EXF300LED-1200-FX4	352	
EXF300LED-1200-GX2	386	
EXF300LED-1200-GX4	219	

Note: For the 34E power supply and the 0600 luminaire version and the version with an emergency power supply module, the possible arrangement of glands is 10 (Ø25) or 20 (Ø20).



The luminaire can operate within a temperature range of -20°C to 0°C, provided that the following conditions are met:

- Battery charging must always take place at temperatures above 0°C,
- Within the ambient temperature range of -20°C to 0°C, the luminaire must remain continuously on to prevent loss of battery capacity,
- When the battery is fully charged, the luminaire may switch to emergency mode at ambient temperatures from -20°C to 0°C.



The operating duration of the emergency modules is specified for Ta = 25°C.

For ambient temperatures between 40°C and 45°C, the operating time of the emergency module is reduced to 2 hours and 30 minutes.

OPTIONAL VERSIONS

3F

3-phase:

Version with terminals L1, L2, L3, PE, N powered from L and N with voltage of 230V

3F



DALI-2 driver:

Version equipped with DALI-2 driver

DA

Optionally, the housing can be equipped with an integrated power supply with a DALI-2 interface, which allows monitoring the operation of the fixture and controlling the lighting using data directly from motion sensors or from the building management system (BMS). A properly configured lighting control system can significantly reduce electricity costs and improve user ergonomics.

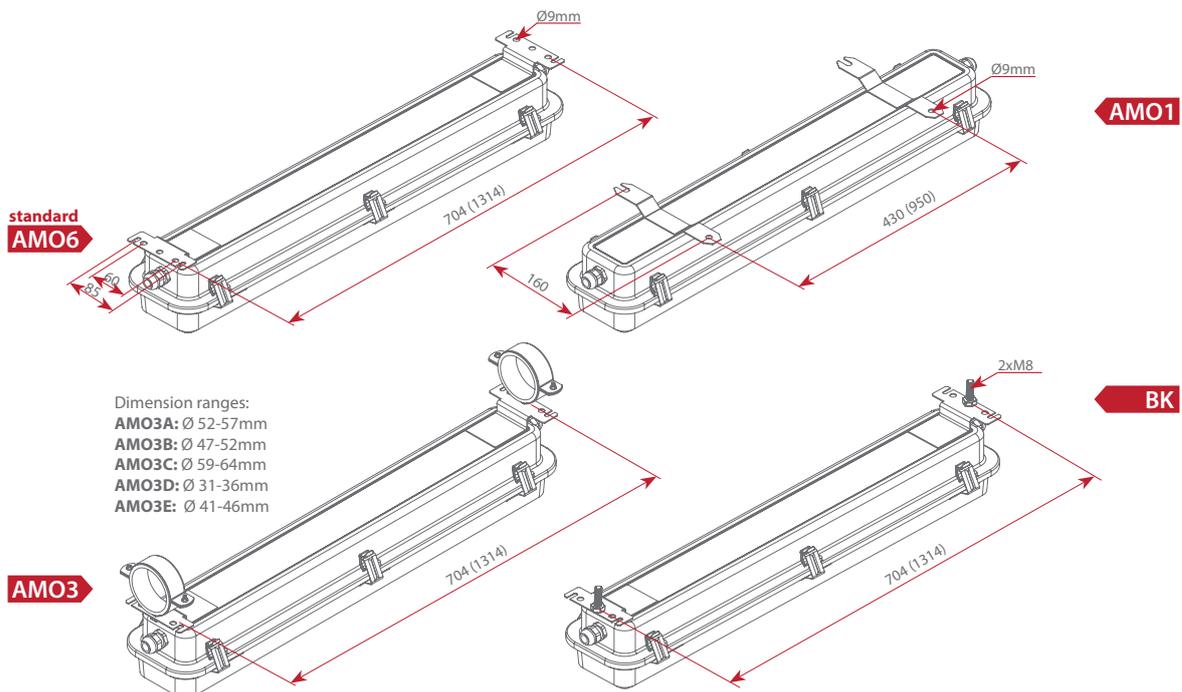
The DALI-2 power supply is available only for the 34E power version (220-240V, 50-60Hz). Power at the terminal > 12V.

MAXIMUM NUMBER OF FIXTURES CONNECTED IN LINE

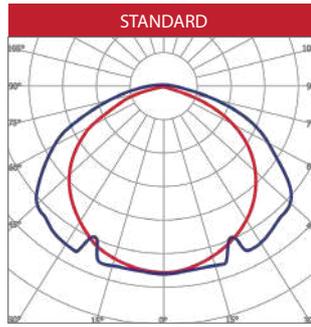
MAXIMUM NUMBER OF LINE CONNECTED LUMINAIRES DEPENDING ON THE USED CIRCUIT BREAKERS

Power supply	B16	C16	Max. starting current	Starting time
25E	24	40	24A	< 250 µs
34E	27	45	14A	< 1300 µs

MOUNTINGS



PHOTOMETRY



CONFIGURATION

group explosionproof light fittings type type 300	0 6 0 0	FX 1	34E	44	21*	P	20	NIRO	PC	A3	DA	AMO6
source of light LED modules	1 2 0 0	GX 2	25E	40	10	M	25					AMO1
approximate length ~ 600mm, 1200mm				60	11							BK
LED module type				66	20*							AMO3
LED module quantity					22*							
power supply 34E - 220-240V 50-60Hz, 25E - 110-254V 50-60Hz, 220-250V 0Hz												
wiring 40 - single 4-pole terminal → [4] ← 44 - double 4-pole terminal → [4 4] ← 60 - single 6-pole terminal → [6] ← 66 - double 6-pole terminal → [6 6] ←												
cable inlets - quantity 10 - one cable inlet on one side → [1 0] ← 11 - one cable inlets on both sides → [1 1] ← 20 - two cable inlets on one side → [2 0] ← *only for M20 and P20 21 - two cable inlets on one side and one on the other side → [2 1] ← *only for M20 and P20 22 - two cable inlets on both sides → [2 2] ← *only for M20 and P20												
cable inlets - material P - plastic M - metal												
cable inlets - size 20 - Ø20 25 - Ø25												
housing material NIRO - powder coated stainless steel												
diffuser material PC - UV stabilized polycarbonate												
emergency version A3 - version with 3-hour emergency power supply module. Available only with gland system 20 for luminaire version 0600 and gland size Ø20. For gland size Ø25, system 10 should be used.												
optional version DA - version equipped with integrated DALI-2 power supply. Version available only for 34E power supply (220-240V, 50-60Hz).												
mountings check: mountings on page 5.												

DOWNLOADS

