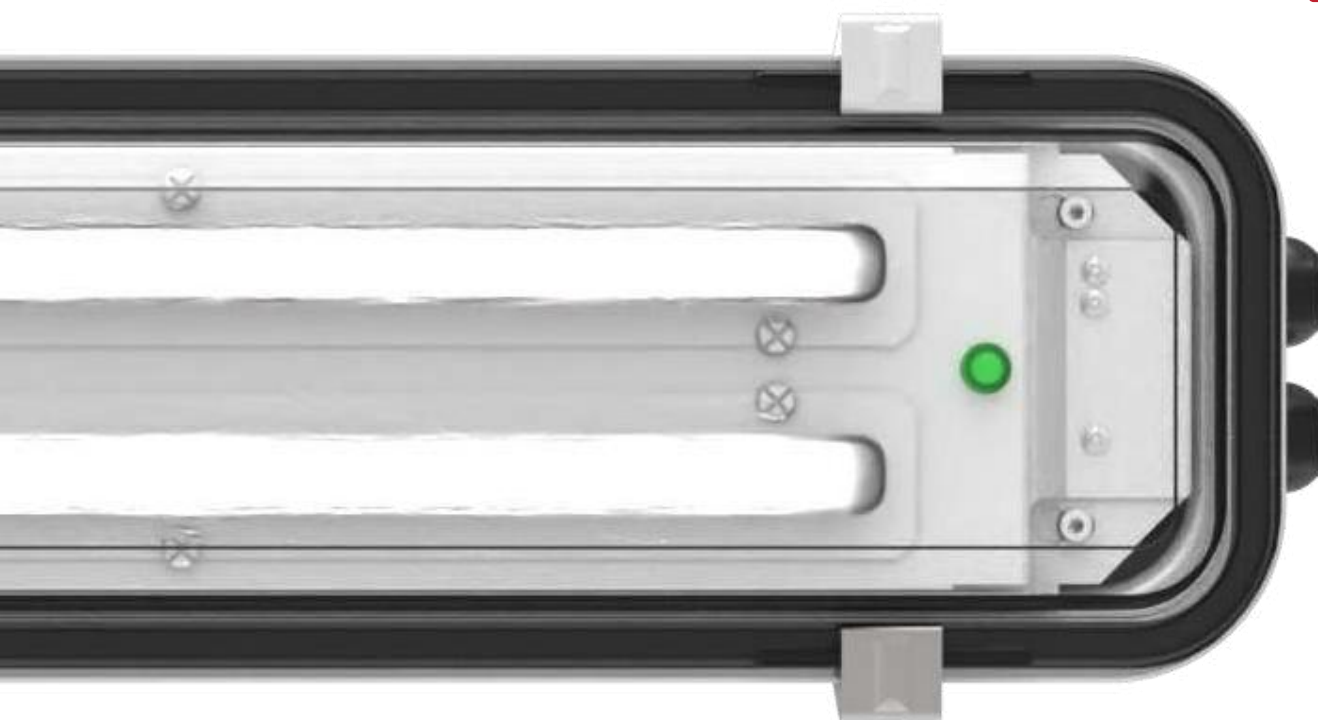
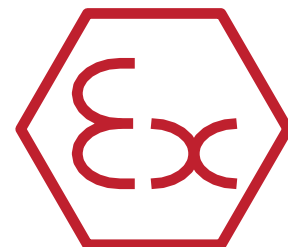


ZONE I,2I&2,22



EMERGENCY LIGHT FIXTURE ES EXF300LED-A3





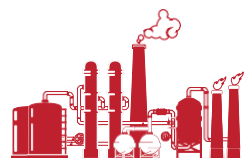
KDB 15ATEX0049X
IECEX KDB 20.0003X



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 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 stabilized polycarbonate (PC)
	ingress protection	IP67
	protection class	I
	impact resistance	IK10
	mounting	using brackets check: mountings

ELECTRICAL PARAMETERS

2,5 mm²

34E: 220-240V 50-60Hz,
25E: 110-254V 50-60Hz,
220-250V 0Hz

intrinsically safe
LED modules



>0,95

Ø20 (wire 6-13mm)
Ø25 - optionally (wire 9-17mm)

1kV (L-N)
2kV (L-PE)

connection
terminalsinput
voltagelight
sourcepower
factorcable
inletsovervoltage
protection

WORK PARAMETERS

	ambient temperature	-20°C to +45°C check: types of
	lifetime	>100.000h L ₈₀ B ₅₀

PHOTOMETRICAL PARAMETERS

>85

4000K
6500K - option

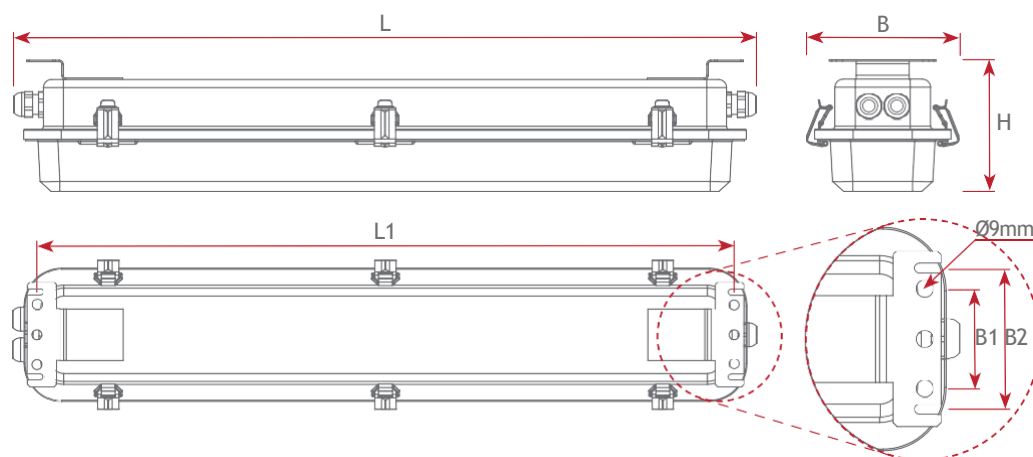
CRI

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.



DIMENSIONS



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

STANDARD TYPES COMPARISON

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

Ex 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]
ES EXF300LED-0600-FX1	2806	21,2	132	45
ES EXF300LED-0600-FX2	5435	38,6	141	45
ES EXF300LED-1200-FX2	5561	38,6	144	45
ES EXF300LED-1200-FX4	10837	74,0	146	45

Ex 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]
ES EXF300LED-0600-GX2	3507	25,3	139	45
ES EXF300LED-1200-GX2	3560	25,3	141	45
ES EXF300LED-1200-GX4	6969	47,0	148	45

OPTIONAL TYPES COMPARISON

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

Ex 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]
ES EXF300LED-0600-FX1	2806	21,2	132	45
ES EXF300LED-0600-FX2	5435	38,0	143	45
ES EXF300LED-1200-FX2	5561	38,5	144	45
ES EXF300LED-1200-FX4	10837	75,6	143	45

Ex 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]
ES EXF300LED-0600-GX2	3507	25,3	139	45
ES EXF300LED-1200-GX2	3560	25,3	141	45
ES 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 Ta=25°C.

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

EMERGENCY VERSION



Emergency power module:

Version with 3h emergency power module.

A3

The battery charging is not available below -10°C.
During the battery charging, the power consumption increases by 3W.

34E

MEAN EMERGENCY LUMINOUS FLUX

TYPE	LUMINOUS FLUX [lm]
ES EXF300LED-0600-FX1	600
ES EXF300LED-0600-FX2	679
ES EXF300LED-0600-GX2	769
ES EXF300LED-1200-FX2	697
ES EXF300LED-1200-FX4	479
ES EXF300LED-1200-GX2	772
ES EXF300LED-1200-GX4	638

25E

MEAN EMERGENCY LUMINOUS FLUX

TYPE	LUMINOUS FLUX [lm]
ES EXF300LED-0600-FX1	361
ES EXF300LED-0600-FX2	351
ES EXF300LED-0600-GX2	385
ES EXF300LED-1200-FX2	342
ES EXF300LED-1200-FX4	352
ES EXF300LED-1200-GX2	386
ES 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 or 20.

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).

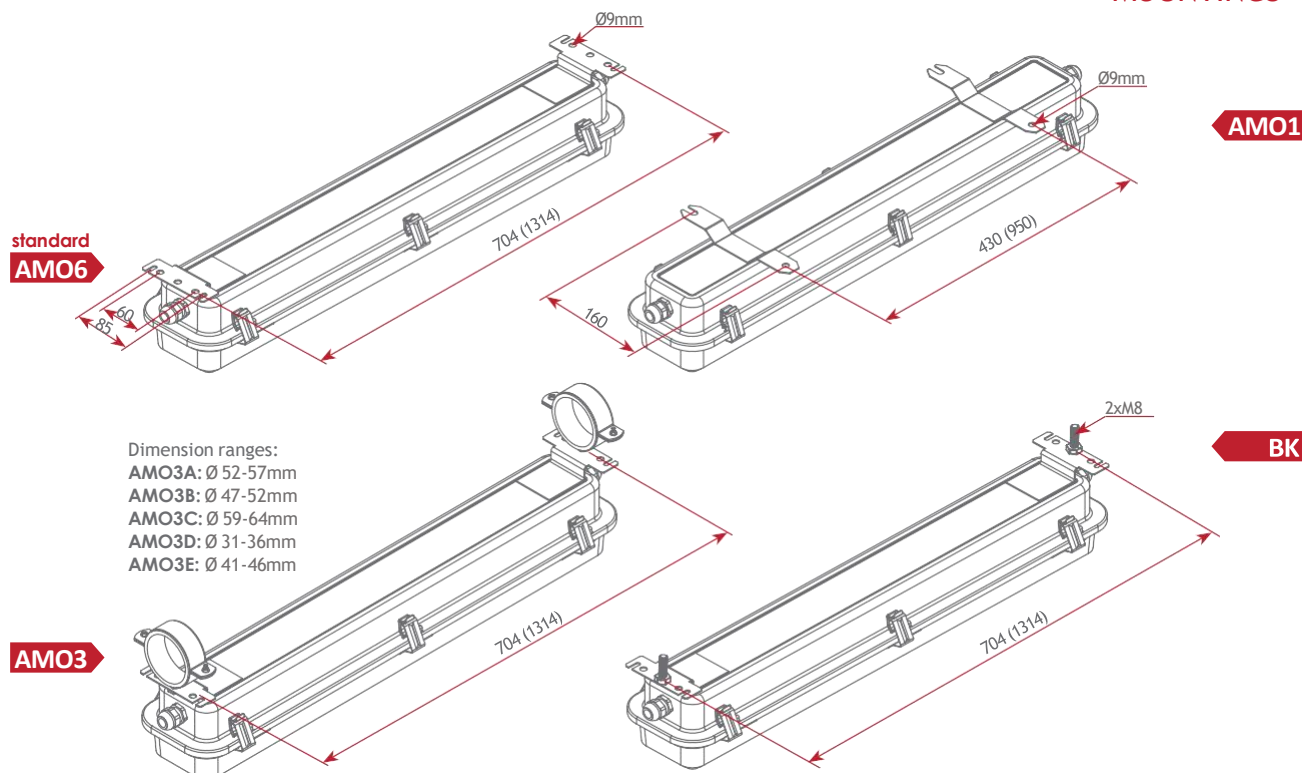
For temperatures below -30°C, DALI functionality may be limited. Power at the terminal > 12V.

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



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A standard chart showing the difference between the two methods. The chart is a polar plot with a red curve and a blue curve. The red curve is labeled 'STANDARD' and the blue curve is labeled 'NEW'. The curves are very close, with the blue curve being slightly larger than the red curve.

E X F 3 0 0 L E D	-	34E	-	44	-	21*	-	P 20	-	NIRO	-	PC	-	A3	-	DA	-	AMO6	-	AMO1	-	BK	-	AMO3
group		0 6 0 0		FX 1		25E		40		10 M 25														
explosionproof		1 2 0 0		GX 2				60		11														
light fittings type								66		20*														
type 300										22*														
source of light																								
LED modules																								
approximate length																								
- 600mm, 1200mm																								
LED module type																								
LED module quantity																								
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																								