

ZONE I,2I&2,22

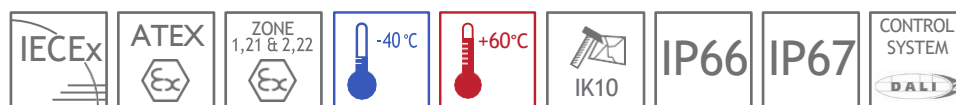


ES EXF300LED





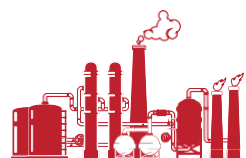
KDB 15ATEX0049X
IECEX KDB 20.0003X



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 powered from central battery **ZB** or with DALI-2 driver **DA**.



Elektrosvit
Svatoňovice, a. s.

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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

35E: 220-240V 50-60Hz,
220-240V 0Hz
25E: 110-254V 50-60Hz,
220-250V 0Hz

intrinsically safe
LED modules

>0,97

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

35E: 4kV (L-N), 4kV (L-PE)
25E: 1kV (L-N), 2kV (L-PE)

connection terminals

input voltage

light source

power factor

cable inlets

overvoltage protection

WORK PARAMETERS

	ambient temperature	-40°C to +60°C check: types of
	lifetime	>100.000h L ₈₀ B ₅₀

PHOTOMETRICAL PARAMETERS

CRI

colour temperature

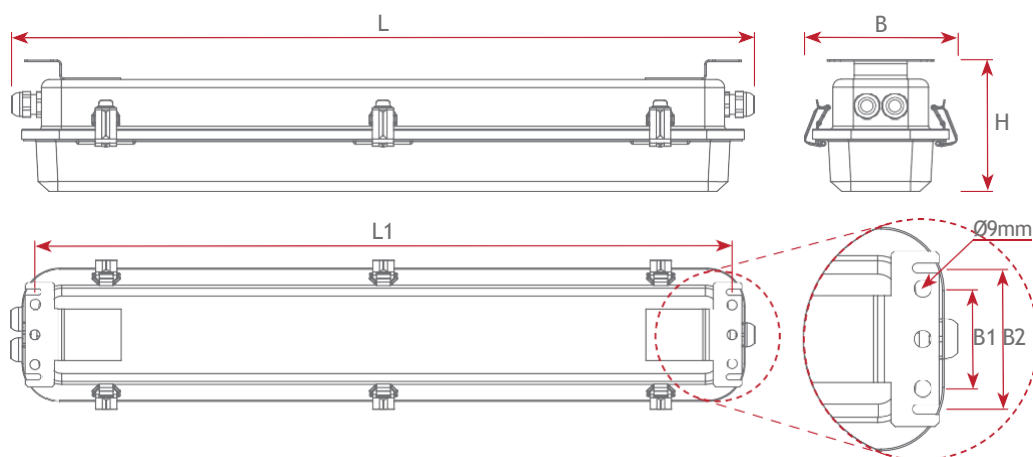
>85

4000K
6500K - option



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	5,2
ES EXF300LED-1200	1340	1314	150	60	85	134	7,6

STANDARD TYPES COMPARISON

⚡ Voltage 220-240V 50-60Hz, 220-240V 0Hz (35E)

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	19,8	142	45
ES EXF300LED-0600-FX2	5435	36,6	148	45
ES EXF300LED-1200-FX2	5561	36,6	152	45
ES EXF300LED-1200-FX4	10837	70,3	154	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]
ES EXF300LED-0600-GX2	3507	24,4	144	60
ES EXF300LED-1200-GX2	3560	24,4	146	60
ES EXF300LED-1200-GX4	6969	45,8	152	55

OPTIONAL TYPES COMPARISON

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

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	20,5	137	45
ES EXF300LED-0600-FX2	5435	37,2	146	45
ES EXF300LED-1200-FX2	5561	37,3	149	45
ES EXF300LED-1200-FX4	10837	74,5	145	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]
ES EXF300LED-0600-GX2	3507	25,3	139	60
ES EXF300LED-1200-GX2	3560	25,3	141	60
ES EXF300LED-1200-GX4	6969	46,7	149	55



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.

CENTRAL BATTERY VERSION



Central battery:

Version with a driver for central battery.

ZB

For ZB version, below -35 °C power source switching is not allowed.

⚡ **35E** (50% nominal luminous flux)

MEAN EMERGENCY LUMINOUS FLUX

TYPE	EMERGENCY FLUX [lm]
ES EXF300LED-0600-FX1	1403
ES EXF300LED-0600-FX2	2718
ES EXF300LED-0600-GX2	1754
ES EXF300LED-1200-FX2	2781
ES EXF300LED-1200-FX4	5419
ES EXF300LED-1200-GX2	1780
ES EXF300LED-1200-GX4	3485

⚡ **25E** (100% nominal luminous flux)

MEAN EMERGENCY LUMINOUS FLUX

TYPE	EMERGENCY FLUX [lm]
ES EXF300LED-0600-FX1	2806
ES EXF300LED-0600-FX2	5435
ES EXF300LED-0600-GX2	3507
ES EXF300LED-1200-FX2	5561
ES EXF300LED-1200-FX4	10837
ES EXF300LED-1200-GX2	3560
ES EXF300LED-1200-GX4	6969

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 35E power version (220-240V, 50-60Hz).

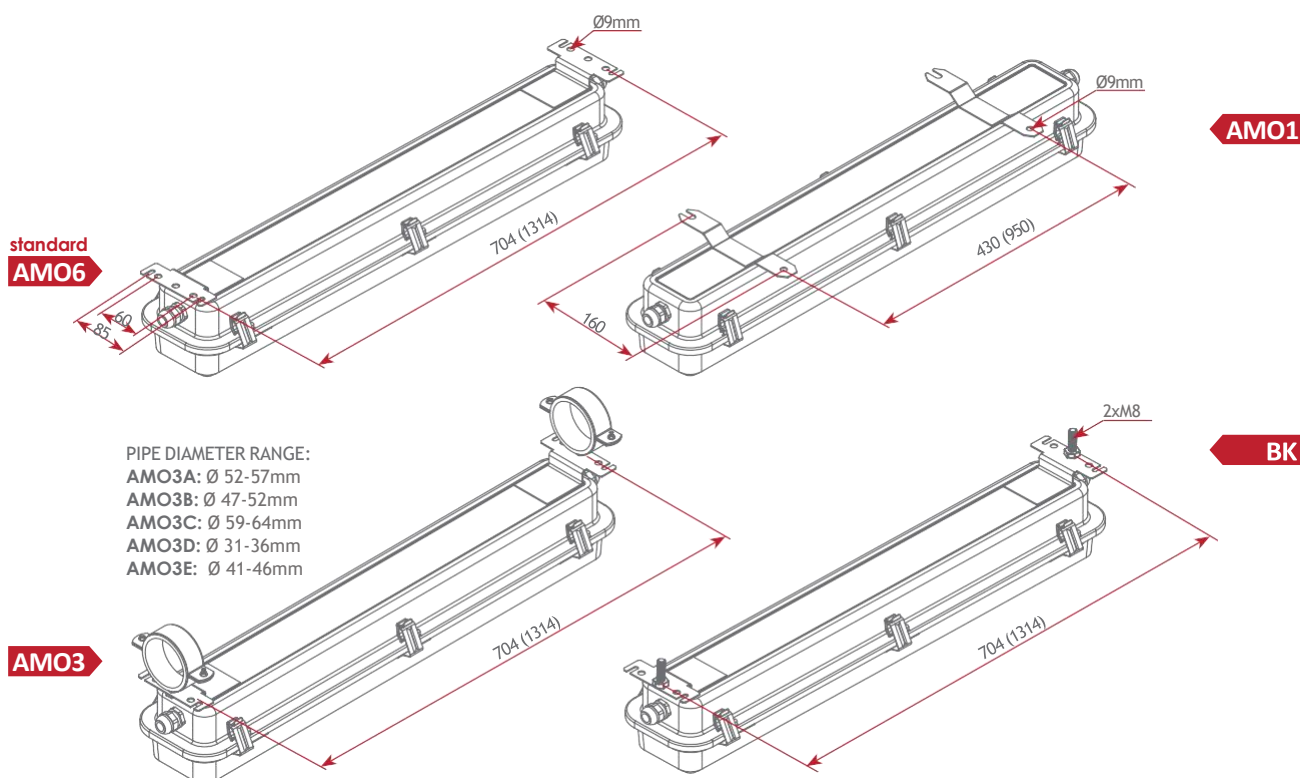
For temperatures below -30 °C, DALI functionality may be limited. Power at the terminal > 12V.

MAXIMUM NUMBER OF FIXTURES CONNECTED IN LINE

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

Power supply	B16	C16	Max. starting current	Starting time
25E	24	40	24A	< 250 μs
35E	27	45	4A	< 1300 μs

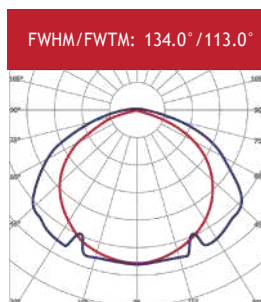
MOUNTINGS



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PHOTOMETRY-



CONFIGURATIONS

E	X	F	3	0	0	L	E	D	-				-	35E	-	33	-	21*	P	20	-	NIRO	-	PC	-		-	ZB	-	DA	-	AMO6	-	AMO1	-	BK	-	AMO3																								
group																																0	6	0	0	FX		1	25E		30	10	M	25																		
explosionproof light fittings																																1	2	0	0	GX		2			50	11																				
type																																										4			55	20*																
type 300																																														22*																
source of light																																																														
LED modules																																																														
approximate length																																																														
- 600mm, 1200mm																																																														
LED module type																																																														
LED module quantity																																																														
power supply																																																														
35E - 220-240V 50-60Hz, 220-240V 0Hz																																																														
25E - 110-254V 50-60Hz, 220-250V 0Hz																																																														
wiring																																																														
30 - single 3-pole terminal																																→	3																													
33 - double 3-pole terminal																																→	3	5	←	version DA																										
50 - single 5-pole terminal																																→	5				version DA																									
55 - double 5-pole terminal																																→	5	5	←																											
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																																																														
central battery version																																																														
ZB - version with driver for central battery																																																														
optional version																																																														
DA - version equipped with integrated DALI-2 power supply. Version available only for 35E power supply (220-240V, 50-60Hz).																																																														
mountings																																																														
check: mountings on page 5.																																																														