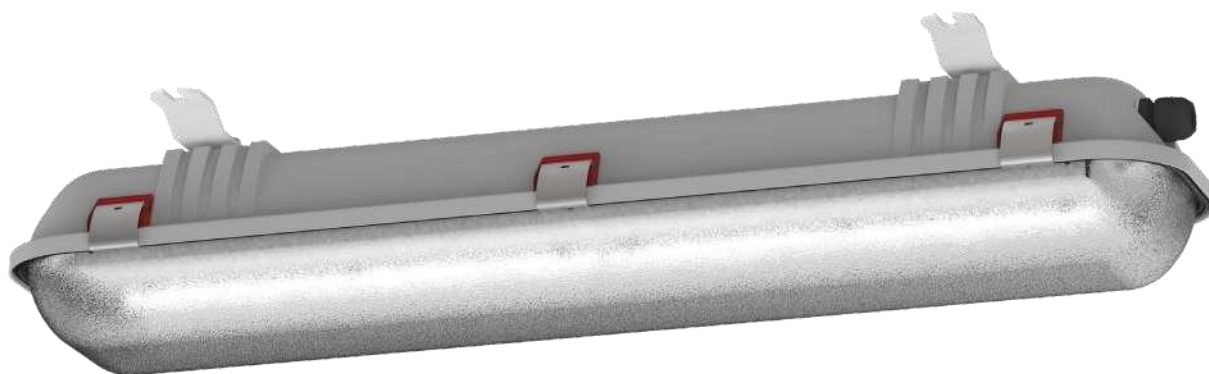


ZONE 21&2,22



ES EXL210LED





EXPLOSION-PROOF MARKINGS

STANDARD and ZB:  II 3G Ex ec IIC T5 Gc
II 2D Ex tb IIIC T60°C Db

A3, ZBC, ZBD:  II 3G Ex ec IIC T5 Gc
II 2D Ex tb IIIC T60°C Db

ZBT, ZBS, ZBR, ZBH, ZBM:  II 3G Ex ec IIC T5 Gc
II 3D Ex tc IIIC T60°C Dc

CERTIFICATES:

KDB 15ATEX0049X
OBAC ATEX 0205X
CNBOP Nr 5300/2024
HYGIENIC ATEST

EXEMPLARY APPLICATIONS



REFINERIES

FUEL
TANKSCHEMICAL
PLANTSCHEMICAL
WAREHOUSESFUEL
HANDLING
STATIONS

Explosionproof light fitting with **LED modules** for suspended coffered ceilings or to be mounted on the ceiling surface. Designed to work in zone **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.

Optional version with 3h power module **A3**, DALI-2 interface **DA** and central battery **ZB**.

The luminaire is not intended for exposure to external weather conditions.



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FEATURES



MECHANICAL PARAMETERS

	housing	fiber glass reinforced polyester (GRP)
	diffuser	UV stabilized polycarbonate (PC)
	ingress protection	IP66, IP67
	protection class	I
	impact resistance	PC: IK08
	mounting	on the surface with bracket

ELECTRICAL PARAMETERS

2,5 mm²

35E: 220-240V 50-60Hz
220-240V 0Hz
34E: 220-240V 50-60Hz

intrinsically safe LED modules

>0,97

Ø20 (cable 6-13mm)
Ø25 - option (cable 9-17mm)

35E: 1 kV (L-N), 2 kV (L-PE)
(4kV as an option)
34E: 1 kV (L-N), 2 kV (L-PE)

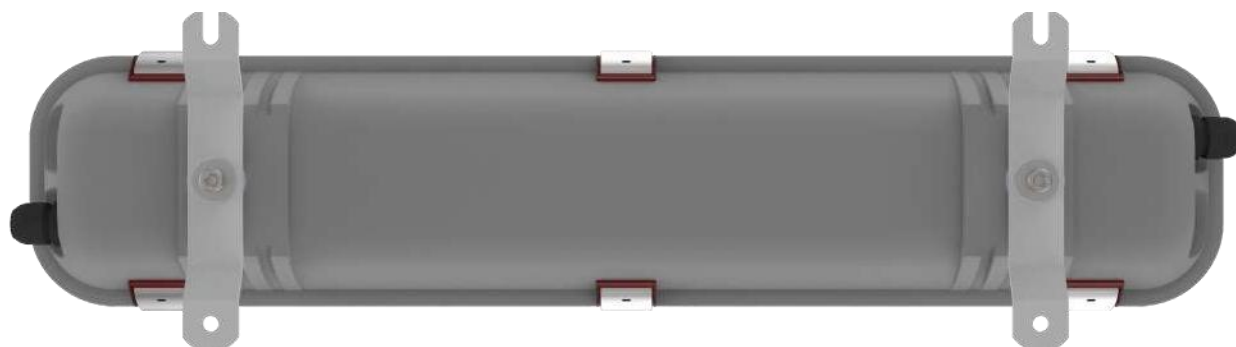
WORK PARAMETERS

	ambient temperature	-40°C to +45°C check: types of
	lifetime	>70.000h L ₈₀ B ₁₀ >100.000h L ₇₀ B ₁₀

PHOTOMETRICAL PARAMETERS

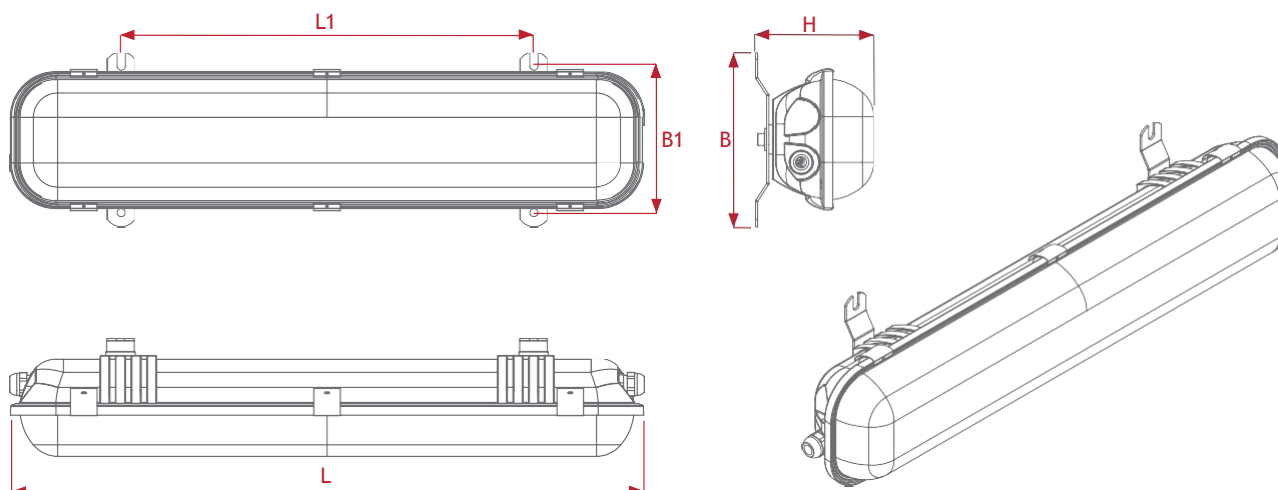
>80
>90 - optionally

4000K
5000K - optionally
6000K - optionally



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]	H [mm]	WEIGHT
ES EXL210LED-0600	700	450	190	160	129	~4,5kg
ES EXL210LED-1200	1300	800	190	160	129	~7kg
ES EXL210LED-1500	1600	1000	190	160	129	~8kg

TYPES COMPARSION

TYPE OF THE LIGHT FITTING	LUMINOUS FLUX [lm]	POWER CONSUMPTION [W]	EFFICIENCY [lm/W]	AMB. TEMP. [°C]
ES EXL210LED-0600-E2	2750	16,2	170	-40 ÷ +45
ES EXL210LED-0600-E4	5486	31,5	174	-40 ÷ +45
ES EXL210LED-1200-E4	6450	38,0	170	-40 ÷ +45
ES EXL210LED-1200-E8	10925	62,2	176	-40 ÷ +45
ES EXL210LED-1500-E6	8207	46,9	175	-40 ÷ +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 based on the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

EMERGENCY VERSIONS

Emergency power module:

34E

Emergency power supply version A3. Possibility of operation in an environment with a temperature from -20°C to 45°C . Minimum ambient temperature during battery charging 0°C .

A3

MEAN EMERGENCY LUMINOUS FLUX	
TYPE	VERSION A3 [lm]
ES EXL210LED-0600-E2	878
ES EXL210LED-0600-E4	875
ES EXL210LED-1200-E4	857
ES EXL210LED-1200-E8	874
ES EXL210LED-1500-E6	873

Central battery:

35E

Version with a driver for central battery

ZB

Operating range - see type summary table on page 4.

The luminous flux of the ZB version of the luminaire is 50% of the nominal flux and the operating voltage range is 176-275VDC.



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	Central battery version: 	Central battery version with TM Technologie TM-AM module.	ZBT
Ambient temperature -15°C to +45°C.			
	Central battery version: 	Central battery version with CEAG V-CG-S 4-400W module.	ZBC
Ambient temperature -20°C to +45°C.			
	Central battery version: 	Central battery version with CEAG V-CG-SE 4-400W module.	ZBD
Ambient temperature -20°C to +45°C.			
	Central battery version: 	Central battery version with RP Technik MU05 module.	ZBR
Ambient temperature -20°C to +45°C.			
	Central battery version: 	Central battery version with ES System MSU 35 module.	ZBS
Ambient temperature -5°C to +45°C.			
	Central battery version: 	Central battery version with Hybryd SOAM-01 module.	ZBH
Ambient temperature -35°C to +45°C.			
	Central battery version: 	Central battery version with Michałowscy LMP-1 module.	ZBM
Ambient temperature -20°C to +45°C.			

OPTIONAL VERSIONS

3F	3-phase version: Version with L1,L2,L3,N,PE terminals to connect between Line and Neutral 230V.	3F
	DALI-2 version: Version with DALI-2 driver.	DA

Optionally, the luminaire can be equipped with an integrated power supply with a DALI-2 interface, which allows monitoring the operation of the luminaires and controlling the lighting using data directly from motion sensors or from the building management system (BIM). A properly configured lighting control system can significantly reduce electricity costs and improve the ergonomics of users' work. For temperatures below -30°C, DALI functionality may be limited. Power supply on the terminal > 12V.

MAXIMUM NUMBER OF LUMINAIRES IN ONE LINE

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

Voltage	B16	C16	Max. starting current	Starting time
35E	12	21	54A	< 125 µs
34E	12	21	64A	< 125 µs

ADDITIONAL PICTOGRAM



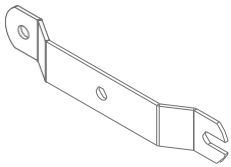
Self-adhesive pictograms can be added to the order optionally.

P11 	P21 	P23 	P31 	P41 
P12 	P22 	P24 	P32 	P42 

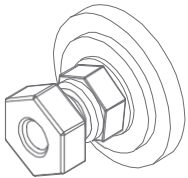
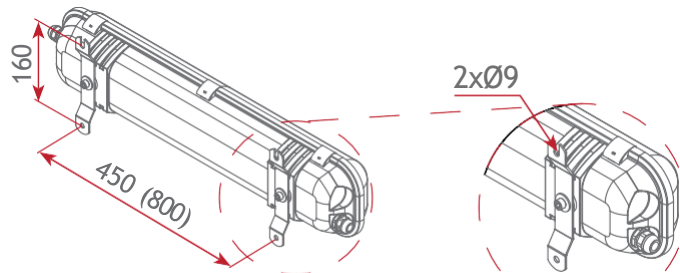
Brightness of pictogram >200 cd/m²

The pictogram version can only be selected for the luminaire type 0600-E2 or 0600-E4.

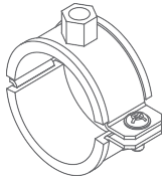
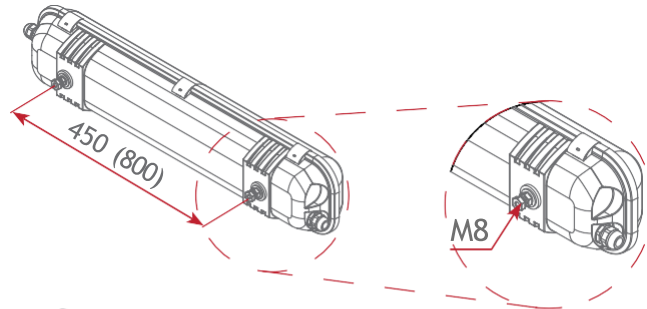
MOUNTINGS

**standard
AMO1**

standard mounting bracket
made of 1.5mm thick steel,
mounting hole spacing
160mm

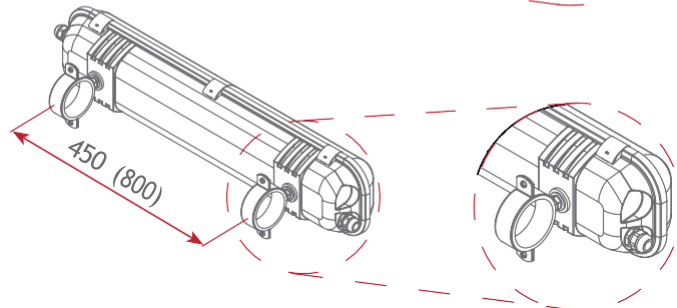
**BK**

standard bolt kit made to
install the light fitting on the
thin surfaces or the cable trays

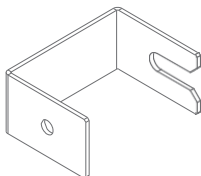
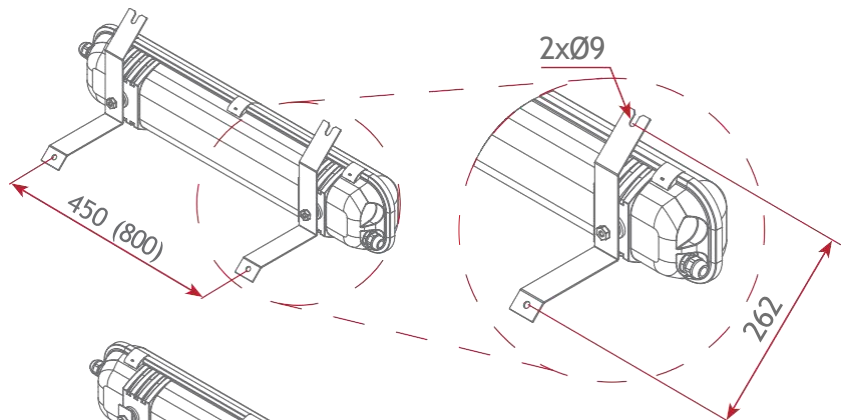
**AMO3**

stainless steel pipe clamp:
AMO3A: 26-30mm,
AMO3B: 31-36mm,
AMO3C: 41-46mm,
AMO3D: 47-52mm,
AMO3E: 59-64mm

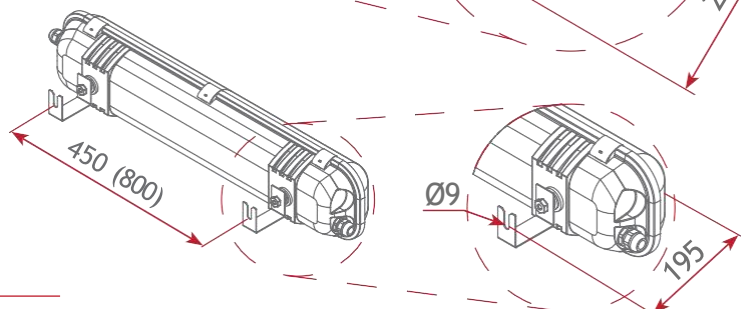
Please specify while ordering.

**AMO4**

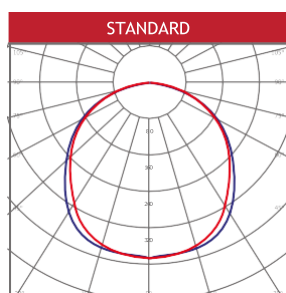
bracket for installation at 45°

**AMO5**

68mm distance bracket



PHOTOMETRY



E	X	L	2	1	0	L	E	D	-				-	E			34E	-			20	-	GRP	-	PC	-		-	DA	-	AMO1	+	
group explosionproof light fittings									0			6	0	0	2			35E	30	10	M	25											BK
type type 210									1			2	0	0	4				33	11	P												AMO3
light source LED modules									1			5	0	0	6				40	20													AMO4
approximate length - 600mm, 1200mm, 1500mm												8				44	21													AMO5			
LED module type																50	22																
LED module quantity																55																	
power supply 34E - 220-240V 50÷60Hz 35E - 220-240V 50÷60Hz, 220-240V 0Hz																60																	
wiring 30 - single 3-pole terminal → 3 ZBC, ZB version 33 - double 3-pole terminal → 3 3 ← ZBC, ZB version 40 - single 4-pole terminal → 4 A3 version 44 - double 4-pole terminal → 4 4 ← A3 version 50 - single 5-pole terminal → 5 DA, ZBD, ZBS, ZBM, ZB-DA version 55 - double 5-pole terminal → 5 5 ← DA, ZBD, ZBS, ZBM, ZB-DA version 60 - single 6-pole terminal → 6 ZBR, ZBT, A3-DA version 66 - double 6-pole terminal → 6 6 ← ZBR, ZBT, A3-DA version 80 - single 8-pole terminal → 8 ZBH version 88 - double 8-pole terminal → 8 8 ← ZBH version																66																	
cable inlets - quantity 21 - two cable inlets on the one side and one on the another → 2 1 ← 22 - two cable inlets on the both sides of the housing → 2 2 ↔																80																	
cable inlets - material M - metal P - plastic																88																	
cable inlets - size 20 - Ø20 25 - Ø25																																	
housing material GRP - fiber glass reinforced polyester																																	
diffuser material PC - UV stabilised polycarbonate																																	
emergency versions A3 - version with 3h emergency power module ZB - version with driver for central battery - without switching module ZBT - version with driver for central battery - with switching module TM-AM, ZBC - version with driver for central battery - with switching module V-CG-S 4-400W ZBD - version with driver for central battery - with switching module V-CG-SE 4-400W ZBS - version with driver for central battery - with switching module MSU 35 ZBR - version with driver for central battery - with switching module MU05 ZBH - version with driver for central battery - with switching module MAPS-01 ZBM - version with driver for central battery - with switching module LMP-1																																	
optional version DA - version with DALI-2 ballast																																	
mocowanie standardowe AMO1 - mocowanie standardowe płaskie																																	
mocowanie opcjonalne																																	

This light fixture cannot work in places exposed to external weather conditions.