ZONE 2,22

ProtecEx

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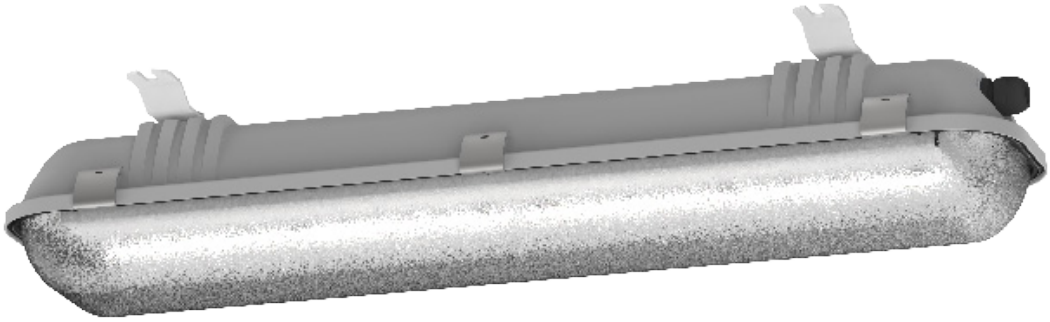


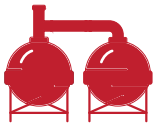
ATEX | ZONE 2,22 | IP66 | IP67 | EMERGENCY A3

EX MARKING: II 3G Ex ec IIC T5 Gc
II 3D Ex tc IIIC T70°C Dc

CERTIFICATES: OBAC 19ATEX0356X

EXEMPLARY APPLICATIONS

REFINERIES



FUEL TANKS

CHEMICAL PLANTS

CHEMICAL WAREHOUSES

FUEL HANDLING STATIONS

Explosionproof light fitting with **LED modules** for suspended coffered ceilings or to be mounted on the ceiling surface. Designed to work in the zone **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 autonomous **A3** power source.

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 stabilised polycarbonate
ingress protection	IP66, IP67
protection class	I
mounting	on the surface with bracket
accessories	mounting accessories

ELECTRICAL PARAMETERS

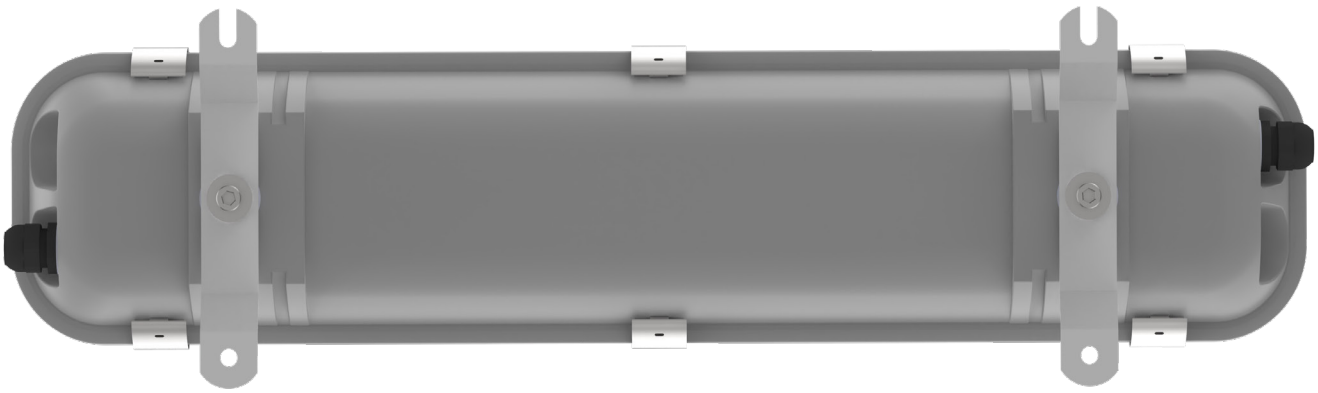
connection terminals	2,5 mm^2
input voltage	230V, 0/50-60Hz
light source	intrisically safe LED modules
power factor	>0,97
cable inlets	Ø20
overvoltage protection	2 kV

WORK PARAMETERS

ambient temperature	-25°C to +45°C *check: types comparsion*
lifetime	>70.000h L_{80} B_{10}

PHOTOMETRICAL PARAMETERS

CRI	>80
colour temperature	4000K



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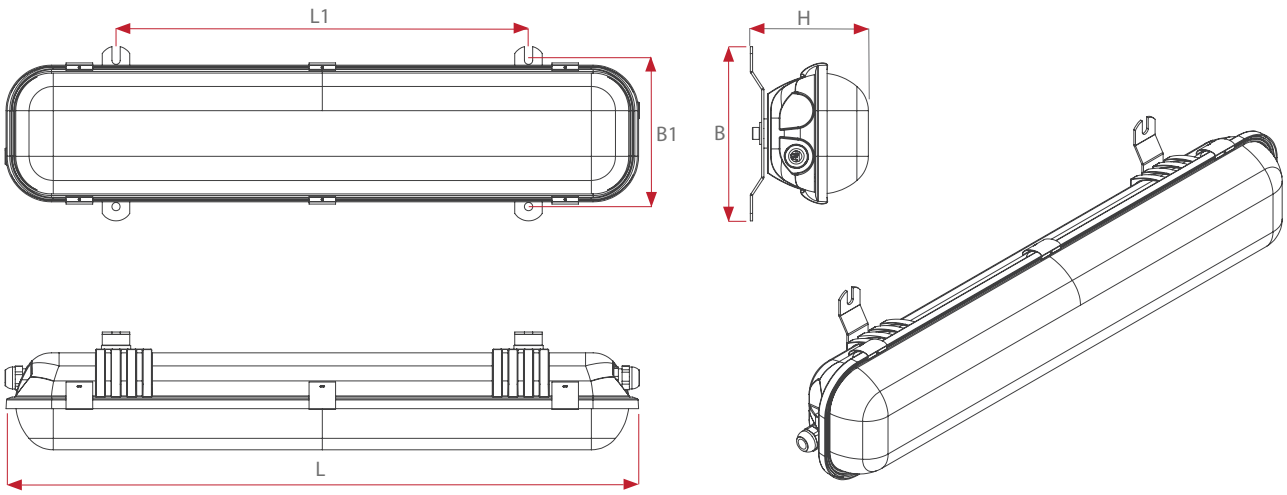
DIMENSIONS



TYPE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	H [mm]
ProtecEx-S	700	450	190	160	129
ProtecEx-M	1300	800	190	160	129
ProtecEx-L	1600	1000	190	160	129

TYPES COMPARSION

TYPE OF THE LIGHT FITTING	LUMINOUS FLUX [lm]	POWER CONSUMPTION [W]	EFFICIENCY [lm/W]	AMB. TEMP. [°C]
ProtecEx-S-1	2706	18,2	149	-25 ÷ +45
ProtecEx-S-2	3770	26,1	144	-25 ÷ +45
ProtecEx-M-1	5413	35,4	153	-25 ÷ +45
ProtecEx-M-2	7540	51,3	147	-25 ÷ +45
ProtecEx-L-1	6647	44,0	151	-25 ÷ +45
ProtecEx-L-2	9259	63,9	145	-25 ÷ +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 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**

OPTIONAL VERSIONS

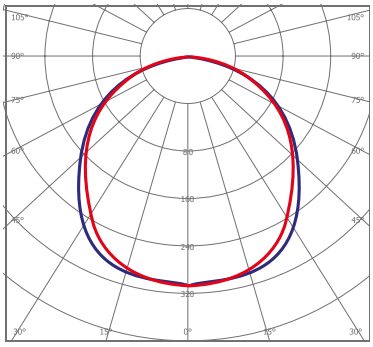
3h

Emergency power module:
Version with 3h emergency power module.
The possibilitty of work above 0°C.

MEAN EMERGENCY MODE LUMINOUS FLUX

TYPE OF THE FITTING	VERSION A3 [lm]
ProtecEx-S-1-..-A3	678
ProtecEx-S-2-..-A3	647
ProtecEx-M-1-..-A3	873
ProtecEx-M-2-..-A3	833
ProtecEx-L-1-..-A3	858
ProtecEx-L-2-..-A3	817

PHOTOMETRY



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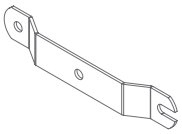
ADDITIONAL PICTOGRAM

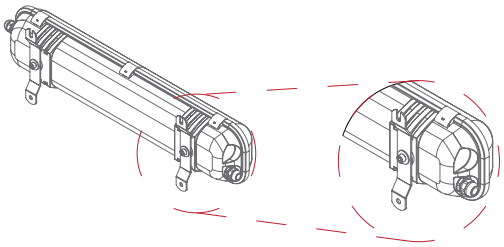
Self-adhesive pictograms can be added to the order optionally.

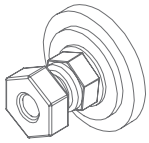
MOUNTINGS



AMO1

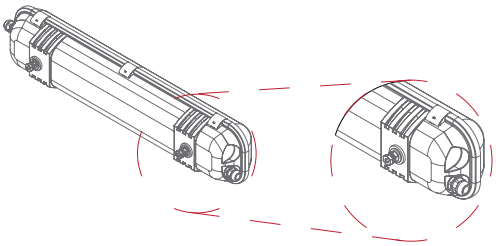
standard mounting bracket made of 1.5mm thick steel, mounting hole spacing 160mm

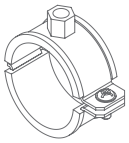




BK

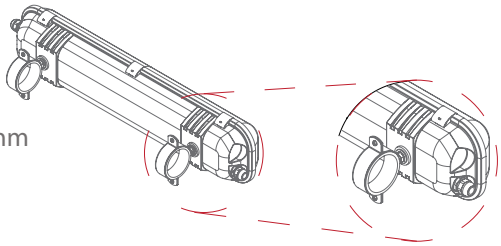
standard bolt kit made to install the light fitting on the thin surfaces or the cable trays





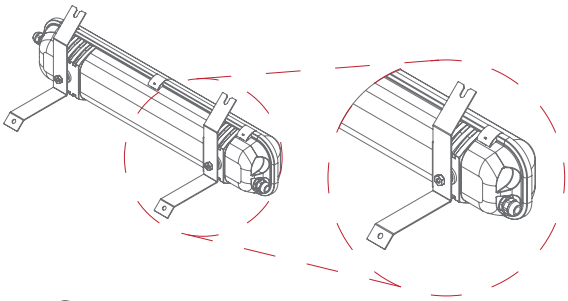
AMO3

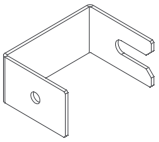
stainless steel hoop for pipe of diameter:
26-30mm, 31-36mm, 41-46mm, 47-52mm, 59-64mm
Please indicate size when ordering



AMO4

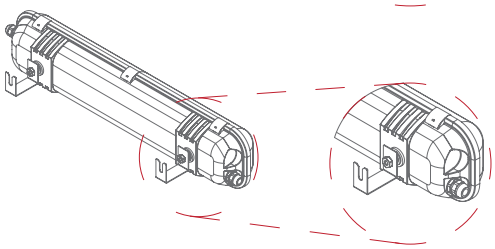
bracket for installation at 45°





AMO5

68mm distance bracket



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CONFIGURATION

P r o t e c E x - - - - - -

S	1	U1	3F*	A3
M	2	U2		
L		U3		
		U4		
		U5		

type
Protec

group
explosionproof light fittings

size
S - ~ 700mm
M - ~ 1300mm
L - ~ 1500mm

stream version

mounting
U1 - AMO1
U2 - BK
U3 - AMO3
U4 - AMO4
U5 - AMO5

3-phase version
* - not available in A3 emergency version

emergency version
A3 - version with 3h emergency power module available only with 34E power supply (250V, 50-60Hz). Works in the temperature above 0°C.

NOTE

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

DOWNLOADS

LDT

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