

ZONE 2,22



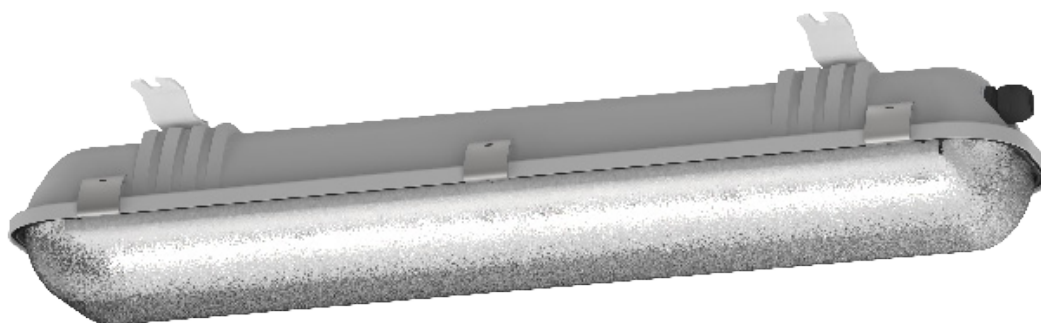
ProtecEx



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EX MARKING:



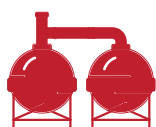
CERTIFICATES:

OBAC 19ATEX0356X

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 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.

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

2,5 mm²

connection terminals



230V, 0/50-60Hz

input voltage



intrinsically safe LED modules

light source



>0,97

power factor



Ø20

cable inlets



2 kV

overvoltage protection



WORK PARAMETERS

	ambient temperature	-40°C to +45°C <i>check: types comparsion</i>
	lifetime	>70.000h L ₈₀ B ₁₀

PHOTOMETRICAL PARAMETERS

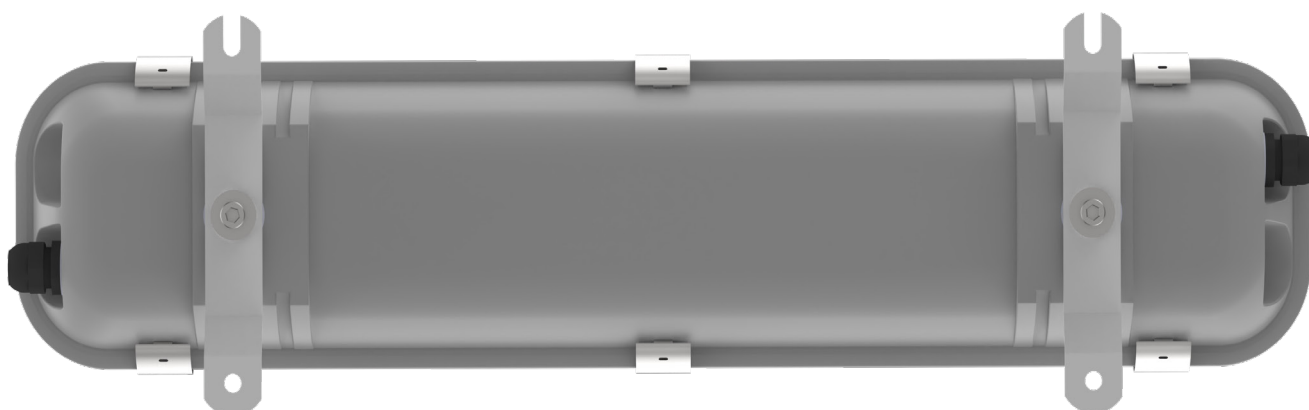
>80

CRI

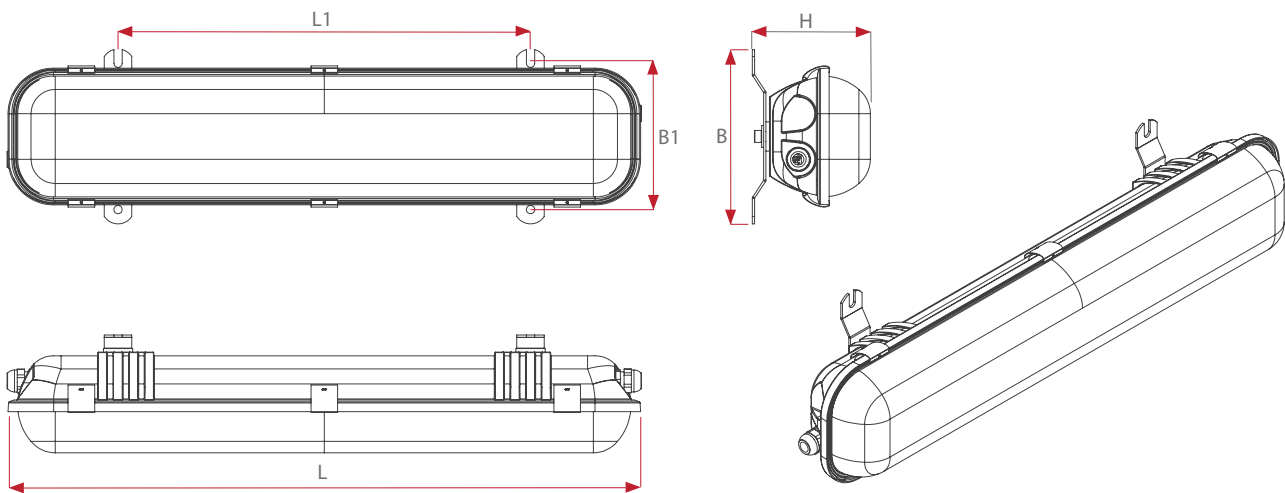


4000K

colour temperature



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

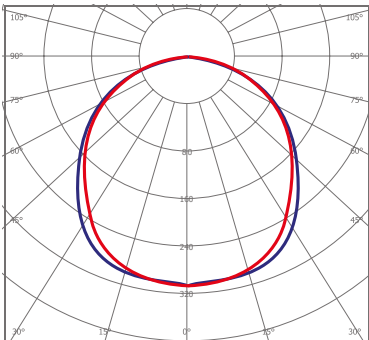


Emergency power module:
Version with 3h emergency power module.
The possibility of work above 0°C.

MEAN EMERGENCY MODE LUMINOUS FLUX

TYPE OF THE FITTING	VERSION A3 [lm]
ProtecEx-S-1-.-A3	622
ProtecEx-S-2-.-A3	592
ProtecEx-M-1-.-A3	735
ProtecEx-M-2-.-A3	746
ProtecEx-L-1-.-A3	741
ProtecEx-L-2-.-A3	704

PHOTOMETRY



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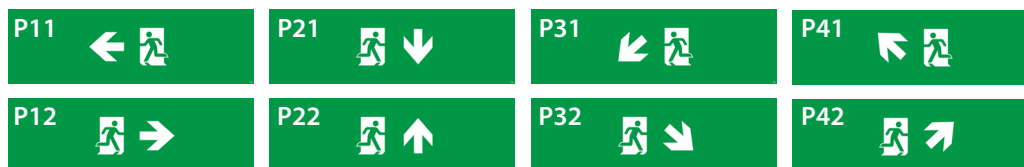


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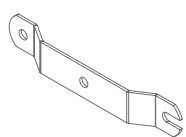
ADDITIONAL PICTOGRAM



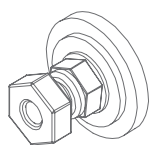
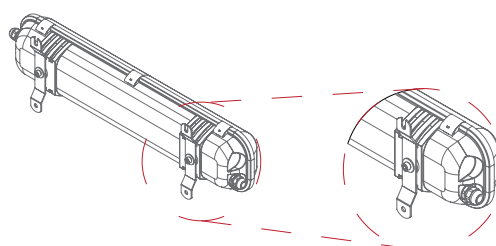
Self-adhesive pictograms can be added to the order optionally.



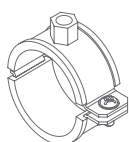
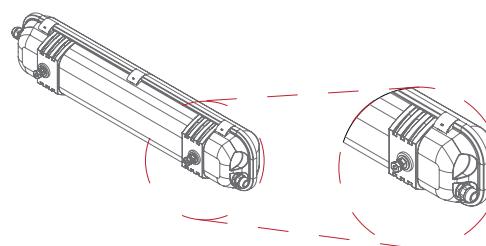
MOUNTINGS

**AMO1**

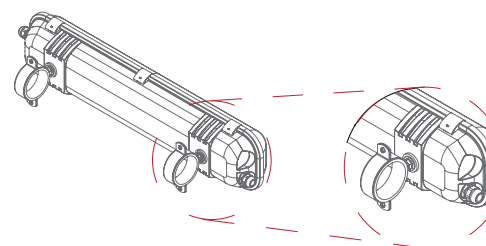
standard mounting bracket made of 1.5mm thick steel, mounting hole spacing 160mm

**BK**

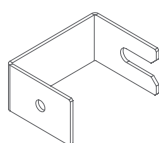
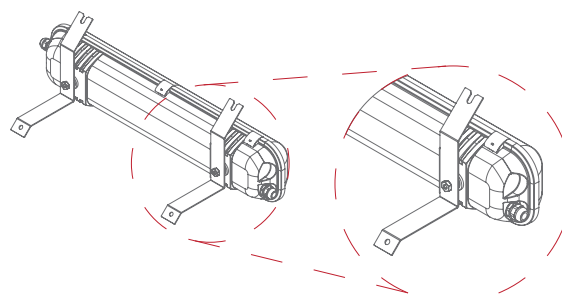
standard bolt kit made to install the light fitting on the thin surfaces or the cable trays

**AMO3**

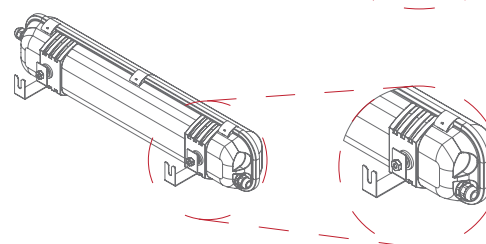
stainless steel hoop for pipe of diameter 60-63mm

**AMO4**

bracket for installation at 45°

**AMO5**

68mm distance bracket



CONFIGURATION

P

r

o

t

e

c

E

x

-

-

-

-

-

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.

S

1

U1

3F*

A3

M

2

U2

L

U3

U4

U5