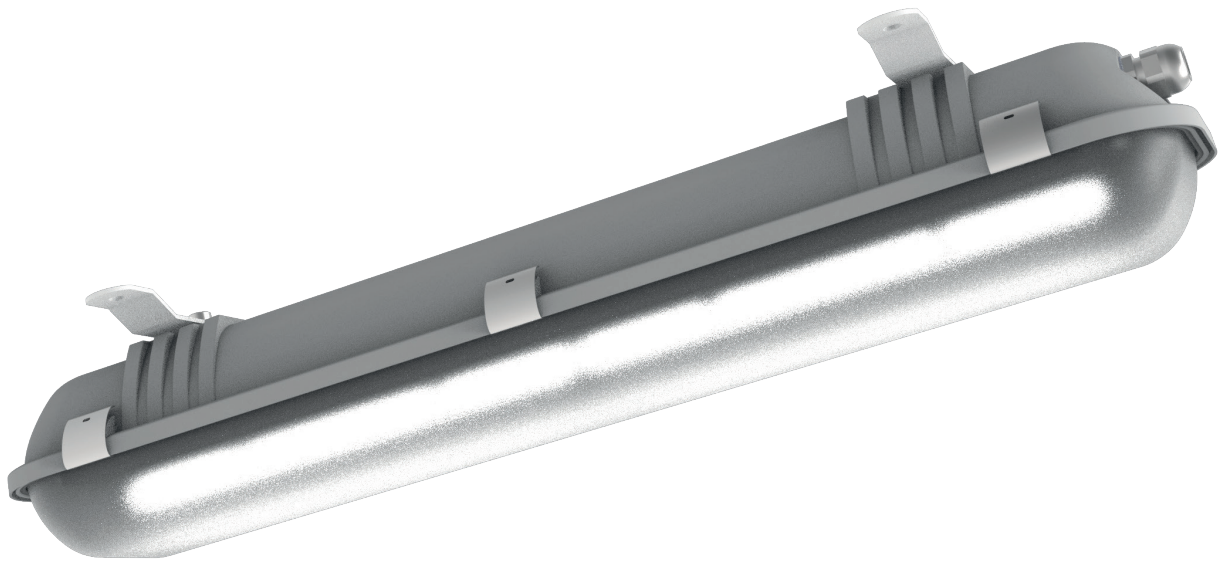


INS230LED





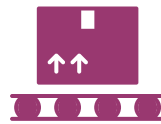
CERTIFICATES:

CNBOP Nr 3660/2019
ATEST PZH

EXEMPLARY APPLICATIONS

INDUSTRY
BUILDINGS

WAREHOUSES

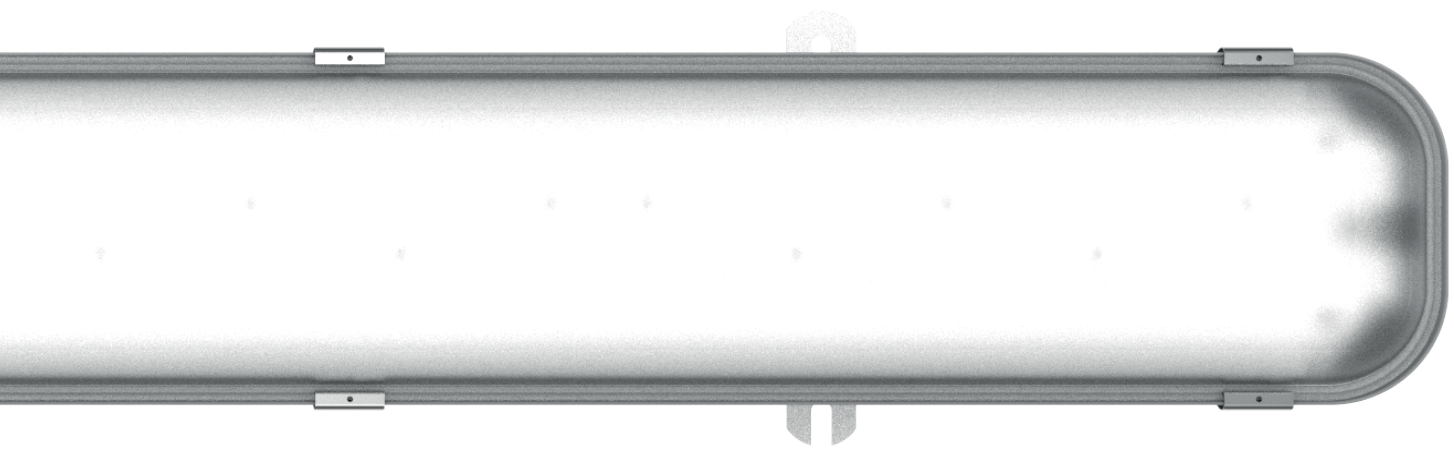
PRODUCTION
LINES

PASSAGEWAYS







Waterproof and dustproof industrial luminaire with LED modules with very high luminous efficiency up to 159 lm/W. The housing is made of glass-fiber reinforced polyester. The diffuser is made of polycarbonate or PMMA.

Optional emergency version with a 3h supply module **A3** or a version for operation with a central battery **ZB**. Version equipped with power supply with the DALI protocol is available as **DA**.

FEATURES



MECHANICAL PARAMETERS

	housing	glass-fiber reinforced polyester (GRP)
	diffuser	UV stabilised polycarbonate or PMMA
	ingress protection	IP66 / IP67
	protection class	I
	mounting	different mountings <i>check: mountings</i>
	accessories	mounting accessories

ELECTRICAL PARAMETERS

2,5 mm²220-240V 0,50-60Hz
220-240V 50-60Hzcertyfikowane
moduły LED

>0,95

Ø20 lub Ø25



2kV

connection
terminalspower
supply

source of light

power
factorcable
inletsovervoltage
protection

WORK PARAMETERS

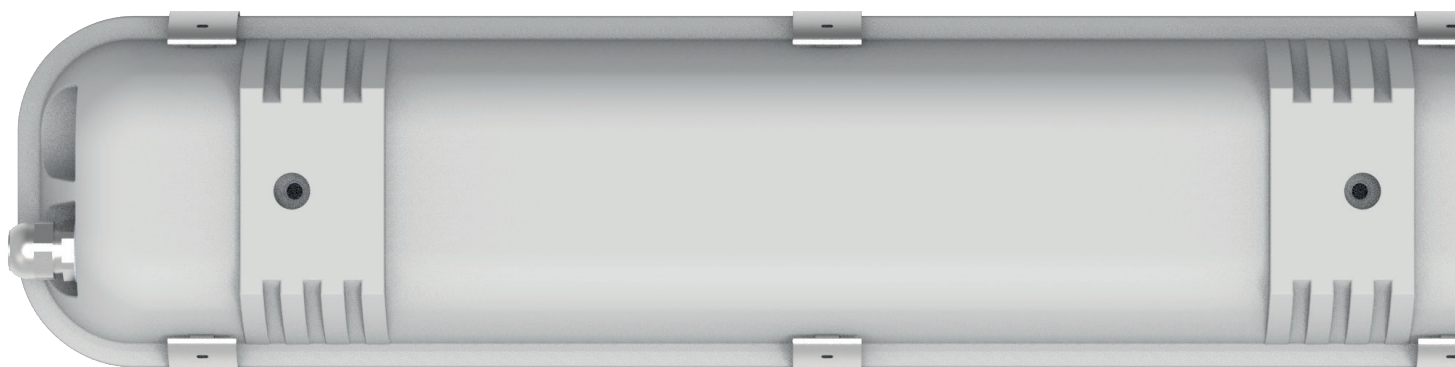
	ambient temperature	-25°C to +60°C <i>check: types comparison</i>
	lifetime	>70.000h L ₈₀ B ₁₀

PHOTOMETRICAL PARAMETERS

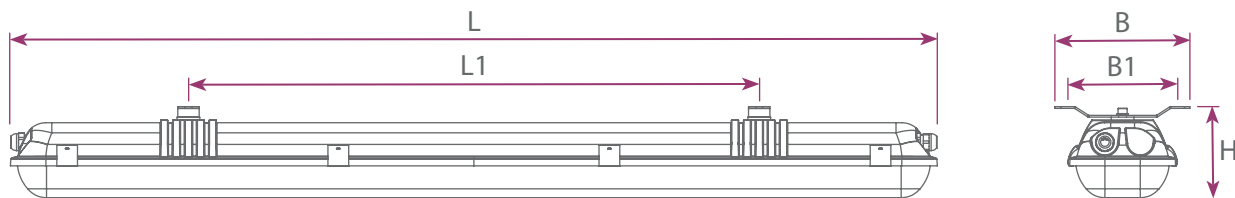
>80

4000K
5000K - *option*
6500K - *option*

CRI

colour
temperature

DIMENSIONS



TYPE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	H [mm]
INS230LED-0600	700	450	190	160	129
INS230LED-1200	1300	800	190	160	129

TYPES COMPARISON

STANDARD VERSIONS

TYPE OF THE LIGHTING	LUMINOUS FLUX [lm]	POWER CONSUMP.[W]	EFFICIENCY [lm/W]	AMB. TEMPERATURE [°C]
INS230LED-0600-J2-1	2706	18,2	149	-25 ÷ 45
INS230LED-0600-J2-3	3770	26,3	143	-25 ÷ 45
INS230LED-1200-J4-1	5413	35,3	153	-25 ÷ 45
INS230LED-1200-J4-3	7540	48,5	155	-25 ÷ 45
INS230LED-1200-B4-1	10825	68,1	159	-25 ÷ 40

VERSIONS WITH ENCAPSULATED LED MODULES - C4

TYPE OF THE LIGHTING	LUMINOUS FLUX [lm]	POWER CONSUMP.[W]	EFFICIENCY [lm/W]	AMB. TEMPERATURE [°C]
INS230LED-0600-J2-1	2706	18,2	149	-25 ÷ 45
INS230LED-0600-J2-3	3770	26,3	143	-25 ÷ 45
INS230LED-1200-J4-1	5413	35,3	153	-25 ÷ 45
INS230LED-1200-J4-3	7540	48,5	155	-25 ÷ 45
INS230LED-1200-B4-1	10825	68,1	159	-25 ÷ 40



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 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

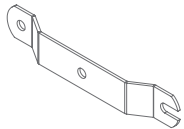
TYPE	VERSION A3 [lm]	VERSION ZB [lm]	VERSION A3-C4 [lm]	VERSION ZB-C4 [lm]
INS230LED-0600-J2-1	622	2706	573	2490
INS230LED-0600-J2-3	592	3770	545	3469
INS230LED-1200-J4-1	735	5413	676	4980
INS230LED-1200-J4-3	746	7540	687	6937
INS230LED-1200-B4-1	851	10825	782	9959



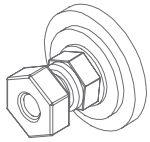
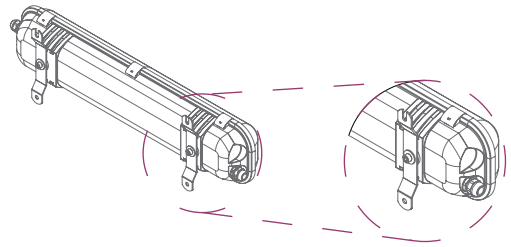
Central battery:

Version with a driver for central battery

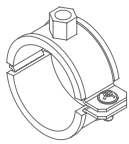
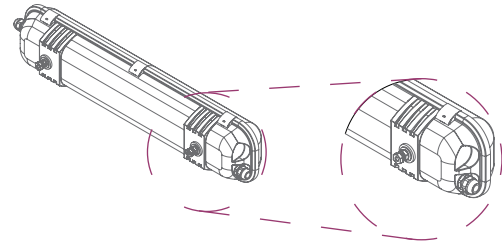
MOUNTINGS

**AMO1**

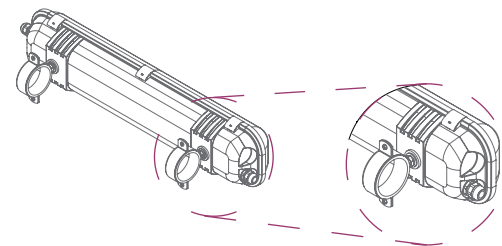
standard mounting bracket made of 1.5mm thick steel, mounting hole spacing 190mm

**BK**

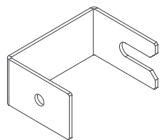
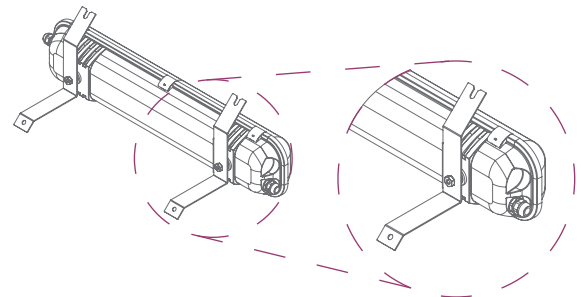
standard bolt-kit made to install the light fitting on the thin surfaces or the cable trays.

**AMO3**

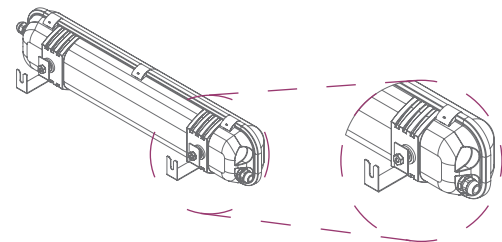
stainless steel hoop for pipe of diameter 60-63mm

**AMO4**

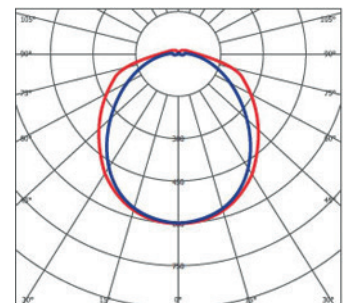
bracket for installation at 45°

**AMO5**

68mm distance bracket



PHOTOMETRY



CONFIGURATIONS

I	N	S	2	3	0	L	E	D	-	-	-	3	E	-	-	-	-	GRP	-	-	-			
										0	6	0	0	J	2		4	30	10	M	20	PM	A3*	C4
										1	2	0	0	B	4		5	33	11	P	25	PC	ZB	
group																								
industrial light fittings																								
type																								
type 230																								
source of light																								
LED modules																								
approximate length																								
~ 600mm, 1200mm																								
LED module type																								
LED modules quantity																								
power supply																								
34E - 230V, 50+60Hz																								
35E - 230V, 0/50+60Hz																								
wiring																								
30 - single 3-pole terminal → <input type="text" value="3"/>																								
33 - double 3-pole terminal → <input type="text" value="3"/> <input type="text" value="3"/> ←																								
40 - single 4-pole terminal → <input type="text" value="4"/>																								
44 - double 4-pole terminal → <input type="text" value="4"/> <input type="text" value="4"/> ←																								
50 - single 5-pole terminal → <input type="text" value="5"/>																								
55 - double 5-pole terminal → <input type="text" value="5"/> <input type="text" value="5"/> ←																								
60 - single 6-pole terminal → <input type="text" value="6"/>																								
66 - double 6-pole terminal → <input type="text" value="6"/> <input type="text" value="6"/> ←																								
70 - single 7-pole terminal → <input type="text" value="7"/>																								
77 - double 7-pole terminal → <input type="text" value="7"/> <input type="text" value="7"/> ←																								
80 - single 8-pole terminal → <input type="text" value="8"/>																								
88 - double 8-pole terminal → <input type="text" value="8"/> <input type="text" value="8"/> ←																								
cable inlets - quantity																								
10 - one cable inlet on one side of the housing → <input type="text" value="1"/> <input type="text" value="0"/>																								
11 - one cable inlet on both sides of the housing → <input type="text" value="1"/> <input type="text" value="1"/> ←																								
20 - two cable inlets on one side of the housing → <input type="text" value="2"/> <input type="text" value="0"/> only for M25 and P25																								
21 - two cable inlets on one side and one on the another → <input type="text" value="2"/> <input type="text" value="1"/> ← only for M25 and P25																								
22 - two cable inlets on both sides of the housing → <input type="text" value="2"/> <input type="text" value="2"/> ← only for M25 and P25																								
cable inlets - material																								
M - metal																								
P - plastic																								
cable inlets - size																								
20 - Ø20																								
25 - Ø25																								
housing material																								
GRP - glass-fiber reinforced polyester (GRP)																								
diffuser material																								
PM - polymethyl methacrylate (PMMA)																								
PC - UV stabilised polycarbonate																								
emergency versions																								
A3 - version with 3h emergency power module available only with 34E power supply (250V, 50-60Hz). Works in the temperature above 0°C.																								
ZB - version with driver for central battery - without switching module, required wiring 30 or 33.																								
ZBT - version with driver for central battery - with switching module TM-AM, required wiring 60 or 66, 80 or 88 (for DALI).																								
ZBC - version with driver for central battery - with switching module V-CG-S 4-400W, required wiring 30 or 33.																								
ZBD - version with driver for central battery - with switching module V-CG-SE 4-400W, required wiring 50 or 55.																								
ZBS - version with driver for central battery - with switching module MSU 35, required wiring 50 or 55.																								
ZBR - version with driver for central battery - with switching module MU05, required wiring 60 or 66.																								
ZBH - version with driver for central battery - with switching module MAPS-01, required wiring 80 or 88.																								
ZBM - version with driver for central battery - with switching module LMP-1, required wiring 50 or 55.																								
DA - version with DALI ballast, required wiring 50 or 55.																								
additional equipment																								
C4 - version equipped with encapsulated LED modules, capable of operating in environments with C4 corrosivity class																								

DOWNLOADS

LDT



CE