

INV320LED-SF





CERTIFICATES: PKP PLK admission D/IST/03/2024,
ENEC PL BBJ/017/2018/M2,
CNBOP 4737/2022

EXEMPLARY APPLICATIONS



PLATFORM SHELTERS



PLACES PRONE TO
ACTS OF VANDALISM



PASSAGEWAYS

LED modules light fixture characterised by very high shock resistance (IK11+). The housing is made of powder coated stainless steel. The shade is made of prismatic polycarbonate. The fixture has been designed to be mounted on the ceiling or wall.

Optional version with a 3h emergency power module **A3** or **A3S**, adapted to be powered from a central battery **ZB**, equipped with a DAL-2 driver **DA**, or motion and light level sensor **SNS**.

FEATURES

MECHANICAL PARAMETERS

 housing	powder coated stainless steel (NIRO)
 diffuser	prismatic polycarbonate (PC)
 shock resistance	IK11+ (150J)
 ingress protection	IP65
 protection class	II
 mounting	4 holes, easy mounting

ELECTRICAL PARAMETERS

4,0 mm²

connection terminals

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

input voltage



LED modules with ENEC certificate

light source



>0,95

power factor



Ø20 (wire 8-13mm)

cable inlets



L-N: 10kV

overvoltage protection



OTHER

 ambient temperature	-40°C to +45°C
 lifetime	>50.000h L ₈₀ B ₅₀ >70.000h L ₈₀ B ₁₀

PHOTOMETRICAL PARAMETERS

>80

CRI

4000K
3000K - *optionally*

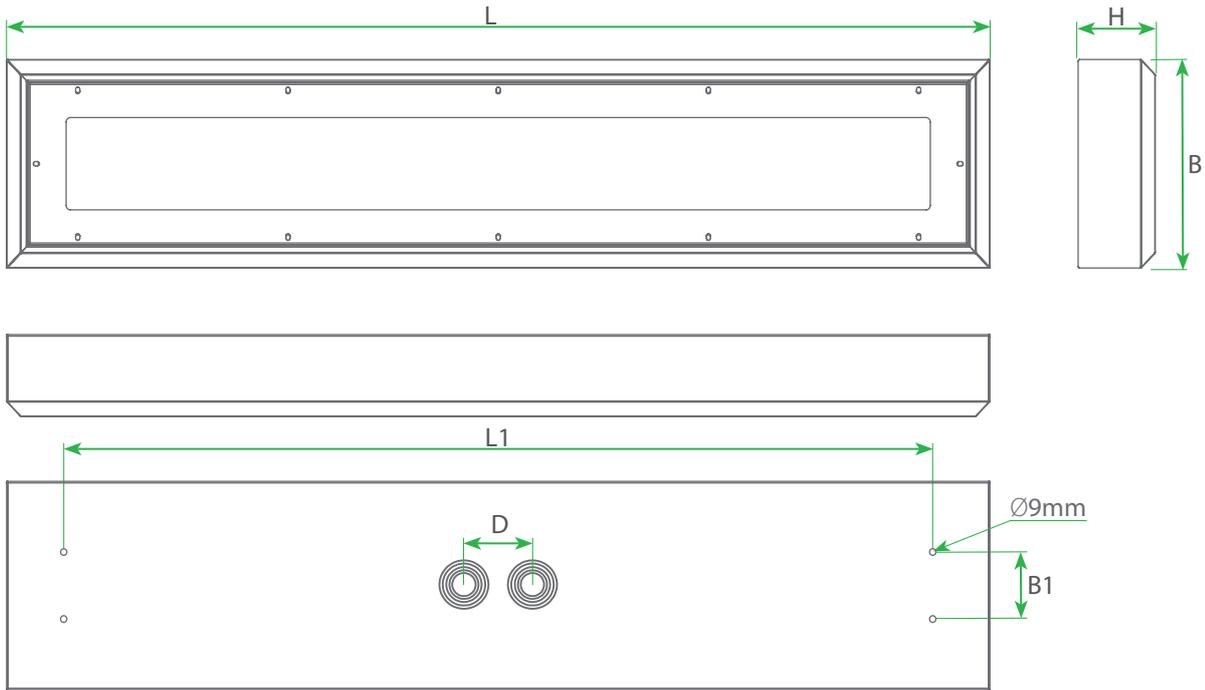
colour temperature



Attention:

Cable glands have been located in a recess to allow installation of the fixture directly to the ceiling.

DIMENSIONS



TYPE OF THE FIXTURE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	H [mm]	D [mm]	weight[kg]
INV320LED-0600-...SF	760	594	280	90	110	60	~11,5
INV320LED-1200-...SF	1370	1220	280	90	110	60	~18,5
INV320LED-1500-...SF	1670	1240	280	90	110	60	~21,0

gross weight of standard versions

TYPES COMPARISON

TYPE OF THE FIXTURE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1-...SF	2427	18,2	133	45
INV320LED-0600-J2-3-...SF	3308	26,2	126	45
INV320LED-0600-B2-1-...SF	4854	35,4	137	45
INV320LED-0600-B2-2-...SF	5487	40,7	135	45
INV320LED-1200-J4-1-...SF	4854	35,4	137	45
INV320LED-1200-J4-2-...SF	5486	40,7	135	45
INV320LED-1200-J4-3-...SF	6615	51,3	129	45
INV320LED-1200-B4-1-...SF	9708	69,8	139	45
INV320LED-1200-B4-2-...SF	10974	80,3	137	45
INV320LED-1500-J4M2-1-...SF	6068	44,0	138	45
INV320LED-1500-J4M2-3-...SF	8269	63,9	129	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 17025:2018-02, norm series EN13032 and LM-79.

The actual data and General Warranty Conditions are available on our website www.atmlighting.pl

MAXIMAL NUMBER OF LIGHT FITTINGS CONNECTED IN LINE

MAXIMAL QUANTITY OF LIGHT FITTINGS THAT MAY BE CONNECTED ACCORDING TO THE USED CIRCUIT BRAKER

Light fittings	B16	C16	Starting current	Starting time
INV320LED-J2, B2, J4	10	16	32A	< 355µs
INV320LED-B4, J4M2	5	8	65A	< 268µs

OPTIONAL VERSIONS

3h Emergency power module: **34E** Version with 3h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be at least 0 °C. **A3**

3h Emergency power module: **34E** Version with 3h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be higher than -20 °C. **A3S**

ZB Central battery: **35E** Version with driver for central battery - no switching module. **ZB**

ZBS Switching module: **35E** Version with driver for central battery - with switching module ES System MSU 35. **ZBS**
Work temperatures range: -5°C to +45°C.

ZBH Switching module: **35E** Version with driver for central battery - with switching module Hybryd SOAM-01. **ZBH**
Work temperatures range: -35°C to +45°C.

MEAN EMERGENCY MODE LUMINOUS FLUX

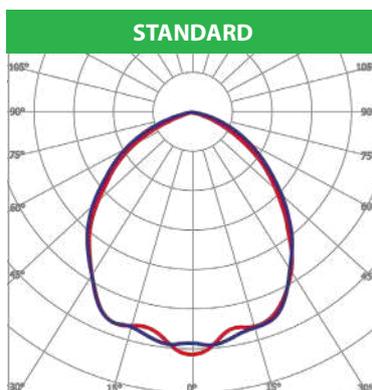
TYPE	A3, A3S [lm]	ZB, ZBS, ZBH [lm]
INV320LED-0600-J2-1-...-SF	600	1214
INV320LED-0600-J2-3-...-SF	561	1654
INV320LED-0600-B2-1-...-SF	786	2427
INV320LED-0600-B2-2-...-SF	772	2744
INV320LED-1200-J4-1-...-SF	772	2427
INV320LED-1200-J4-2-...-SF	758	2743
INV320LED-1200-J4-3-...-SF	720	3308
INV320LED-1200-B4-1-...-SF	786	4854
INV320LED-1200-B4-2-...-SF	772	5487
INV320LED-1500-J4M2-1-...-SF	786	3034
INV320LED-1500-J4M2-3-...-SF	734	4135

DALI DALI -2 interface: **DA** Version equipped with driver with DALI-2 interface **DA**

Optional DA version has been equipped with integrated driver with DALI-2 interface, which allows to monitor work of the luminaires, thanks to the data collected from the sensors or building information management system (BIM). Proper system configuration may reduce power consumption, costs and improve work ergonomics for users. For temperatures below -30°C DALI functionality may be limited. Power supply at terminal > 12V.

SENSOR Motion sensor: **SNS** Motion and light level sensor. **SNS**

FOTOMETRIA



CONFIGURATIONS

I	N	V	3	2	0	L	E	D	-		-		-	3	E	-	1	1	P	C	I	-	NIRO	-	PC	-		-	II	-	SF	+	SNS							
group vandalproof fixtures type type 320									0	6	0	0	J	1	1	4	20													A3										
source of light LED modules									1	2	0	0	B	2	2	5	22													A3S										
approximate length ~ 600mm, 1200mm, 1500mm														4	3		30												ZB											
LED module type																	33											ZBS												
LED module quantity																	40											ZBH												
driving current																	44																							
power supply 34E - 220-240V 50÷60Hz 35E - 220-240V 0/50÷60Hz																	70																							
wiring																	77																							
20 - single 2-pole terminal → <input type="text" value="2"/> ← standard version																																								
22 - double 2-pole terminal → <input type="text" value="2"/> <input type="text" value="2"/> ← standard version																																								
30 - single 3-pole terminal → <input type="text" value="3"/> ← versions A3, A3S																																								
33 - double 3-pole terminal → <input type="text" value="3"/> <input type="text" value="3"/> ← versions A3, A3S																																								
40 - single 4-pole terminal → <input type="text" value="4"/> ← versions ZBS, DA																																								
44 - double 4-pole terminal → <input type="text" value="4"/> <input type="text" value="4"/> ← versions ZBS, DA																																								
70 - single 7-pole terminal → <input type="text" value="7"/> ← version ZBH																																								
77 - double 7-pole terminal → <input type="text" value="7"/> <input type="text" value="7"/> ← version ZBH																																								
cable inlets - quantity																																								
11 - 2 cable inlets by the sides of the bottom of the housing → <input type="text" value="1"/> <input type="text" value="1"/> ←																																								
cable inlets - type PCI - rubber cable inlets Ø20																																								
housing material NIRO - stainless steel																																								
shade material PC - prismatic polycarbonate (Exolon® UV Clear 2099 RH)																																								
emergency versions																																								
A3 - version with 3h emergency module available only with 34E power supply (230V/ 50÷60Hz). Ambient temperature must be higher than 0 °C.																																								
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ZB - version with driver for central battery.																																								
ZBS - version with switching module MSU 3S.																																								
ZBH - version with switching module SOAM-01.																																								
protection class II - II class																																								
mounting SF - mounting on the ceiling surface																																								
optional equipment SNS - motion and light level sensor adjustable manually on the module																																								

DOWNLOADS

