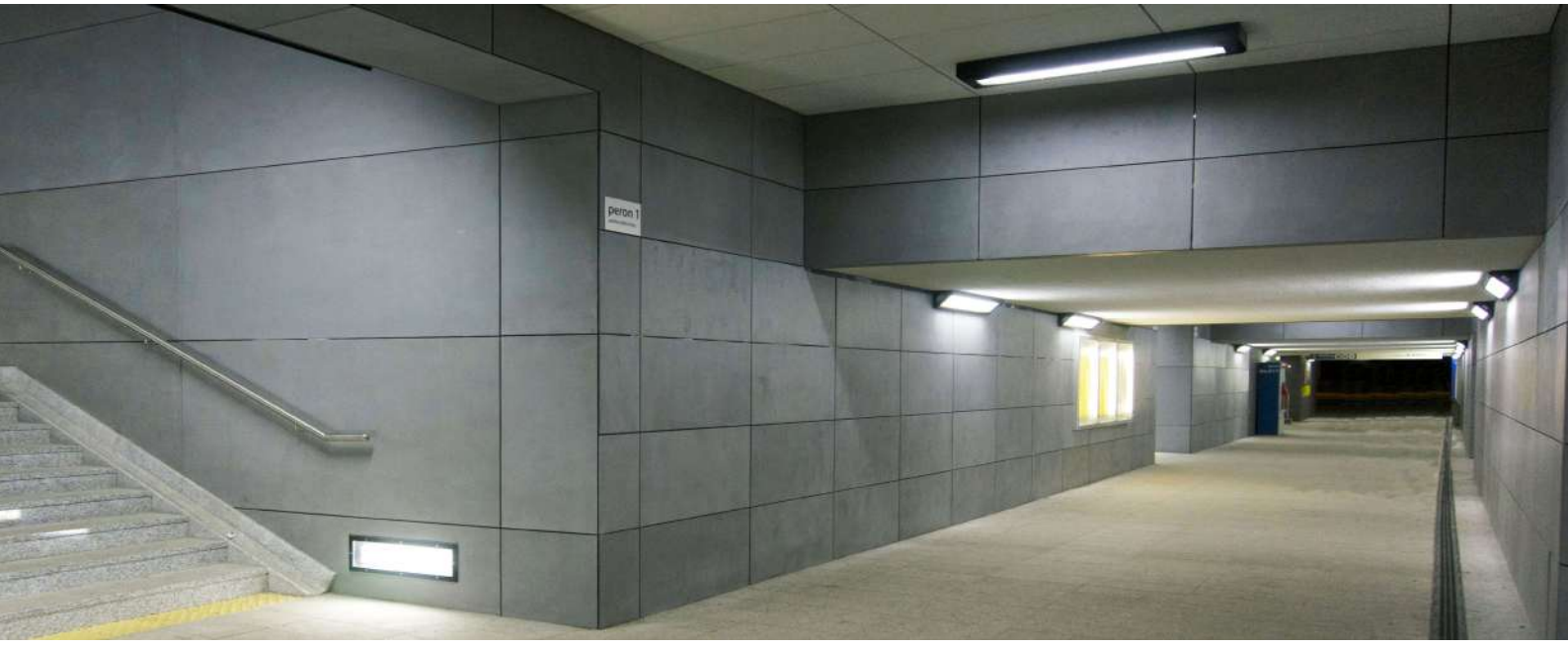
INV320LED



SENSOR | PLK | 10kV | IP65 | IK11+ | SECURE LOCK | CENTRAL ZB BATTERY | EMERGENCY 3h | EMERGENCY 3h -20°C | CONTROL SYSTEM DALI

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 polycarbonate. The fixture has been designed to be mounted in the passageways in the space between the wall and the ceiling.

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

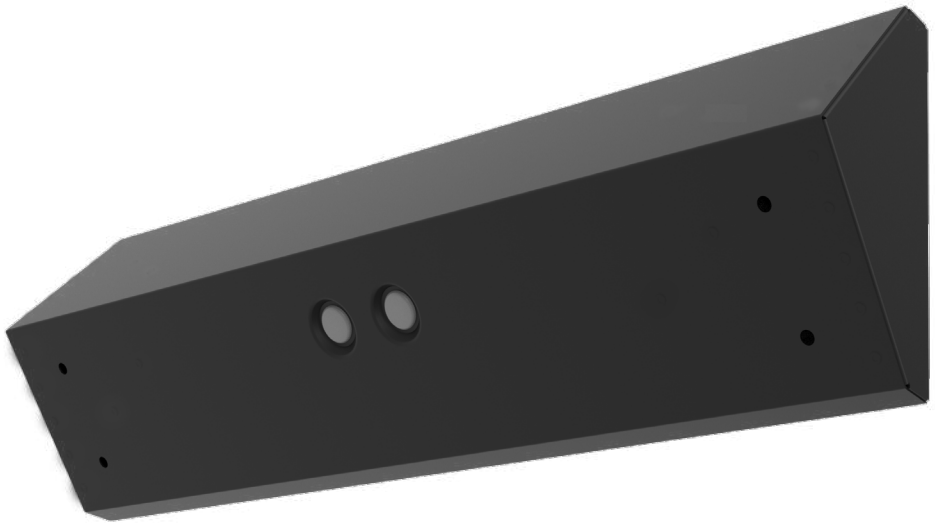
4,0 mm²	connection terminals
35E: 220-240V 0/50-60Hz **34E:** 220-240V 50-60Hz	input voltage
LED modules with ENEC certificate	light source
>0,95	power factor
Ø20 (wire 8-13mm)	cable inlets
L-N: 10kV	overvoltage protection

OTHER

ambient temperature	-40°C to +45°C
lifetime	>50.000h L_{80} B_{50} >70.000h L_{80} B_{10}

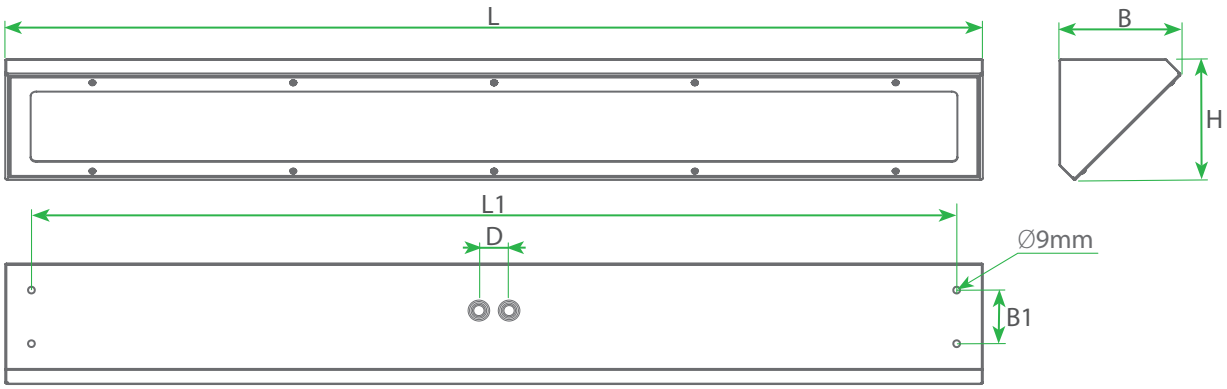
PHOTOMETRICAL PARAMETERS

>80	CRI
4000K 3000K - *optionally*	colour temperature



Attention:
Cable inlets have been located in a recess to allow installation of the fixture directly to the wall.

DIMENSIONS



TYPE	L [mm]	L1 [mm]	B [mm]	H [mm]	D [mm]	B1 [mm]	weight [kg]
INV320LED-0600	760	652	170	170	60	75	~8,5
INV320LED-1200	1370	1290	170	170	60	75	~15,0
INV320LED-1500	1670	1590	170	170	60	75	~19,5

TYPES COMPARISON

TYPE OF LIGHT FITTING	LUMINOUS FLUX [lm]	POWER [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1	2395	18,2	132	45
INV320LED-0600-J2-3	3392	26,2	129	45
INV320LED-0600-B2-1	4790	35,4	135	45
INV320LED-0600-B2-2	5479	40,7	134	45
INV320LED-1200-J4-1	4790	35,4	135	45
INV320LED-1200-J4-2	5470	40,7	134	45
INV320LED-1200-J4-3	6784	51,3	132	45
INV320LED-1200-B4-1	9581	69,8	137	45
INV320LED-1500-J4M2-1	5988	44,0	136	45
INV320LED-1500-J4M2-2	6835	50,6	135	40

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

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**

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**

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

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.

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	601	1198
INV320LED-0600-J2-3	582	1696
INV320LED-0600-B2-1	776	2395
INV320LED-0600-B2-2	769	2735
INV320LED-1200-J4-1	773	2395
INV320LED-1200-J4-2	755	2735
INV320LED-1200-J4-3	748	3392
INV320LED-1200-B4-1	776	4791
INV320LED-1500-J4M2-1	772	2994
INV320LED-1500-J4M2-2	770	3418

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

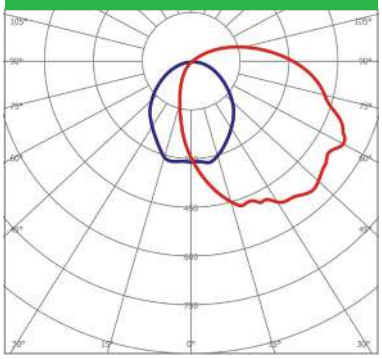
Optional DA verion has been equipped with integrated driver with DALI-2 interface, which allows to monitor work of the luminaires, thanks to the data collected from the sensors or building information management system (BIM). Proper system configuration may reduce power consumption, costs and improve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

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

Attention:
There is a possibility to order a linear lighting system which is a perfect solution to hide the wiring and to ensure additional functionalities. For more details please contact the Customer Service.

PHOTOMETRY

STANDARD



CONFIGURATIONS

I N V 3 2 0 L E D - [ ][ ][ ][ ] - [ ][ ][ ][ ] - [ ] - 3 [ ] E - [ ] - 1 1 P C I - NIRO - PC - [ ] - II + SNS

approximate length	LED modules	driving current	power supply	wiring	emergency versions
0600	J2M2	1	4	20	A3
1200	B4	2	5	22	A3S
1500		3		30	ZB
				33	ZBS
				40	ZBH
				44	
				70	
				77	

group
vandalproof fixtures

type
type 320

source of light
LED modules

approximate length
~ 600mm, 1200mm, 1500mm

LED module type

LED module quantity

LED module type

LED module quantity

driving current

power supply
34E - 220-240V 50÷60Hz
35E - 220-240V 0/50÷60Hz

wiring

20 - single 2-pole terminal	2	standard version
22 - double 2-pole terminal	22	standard version
30 - single 3-pole terminal	3	versions A3, A3S
33 - double 3-pole terminal	33	versions A3, A3S
40 - single 4-pole terminal	4	versions ZBS, DA
44 - double 4-pole terminal	44	versions ZBS, DA
70 - single 7-pole terminal	7	version ZBH
77 - double 7-pole terminal	77	version ZBH

cable inlets - quantity
11 - 2 cable inlets at the center ot the housing 1 1

cable inlets - type
PCI - rubber cable inlets Ø20

housing material
NIRO - stainless steel

diffuser 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 highter than 0 °C.
A3S - version with 1h emergency module available only with 34E power supply (230V/ 50÷60Hz). Ambient temperature must be highter than -20 °C.
ZB - version with driver for central battery - without switching module.
ZBS - version with switching module MSU 3S.
ZBH - version with switching module SOAM-01.

protection class
II - II class

optional equippment
SNS - motion and light level sensor adjustable manually on the module

DOWNLOADS

LDT

CNBOP

PKP