

# ES INV320LED-RC





CERTIFICATES: Permission: PKP PLK 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 characterized 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 **DALI-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 mm<sup>2</sup>

connection terminals

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

input voltage



LED modules with ENEC certificate

light source



&gt;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 <sub>80</sub> B <sub>50</sub> >70.000h L <sub>80</sub> B <sub>10</sub>

## PHOTOMETRICAL PARAMETERS

&gt;80

CRI

4000K  
3000K - *optionally*

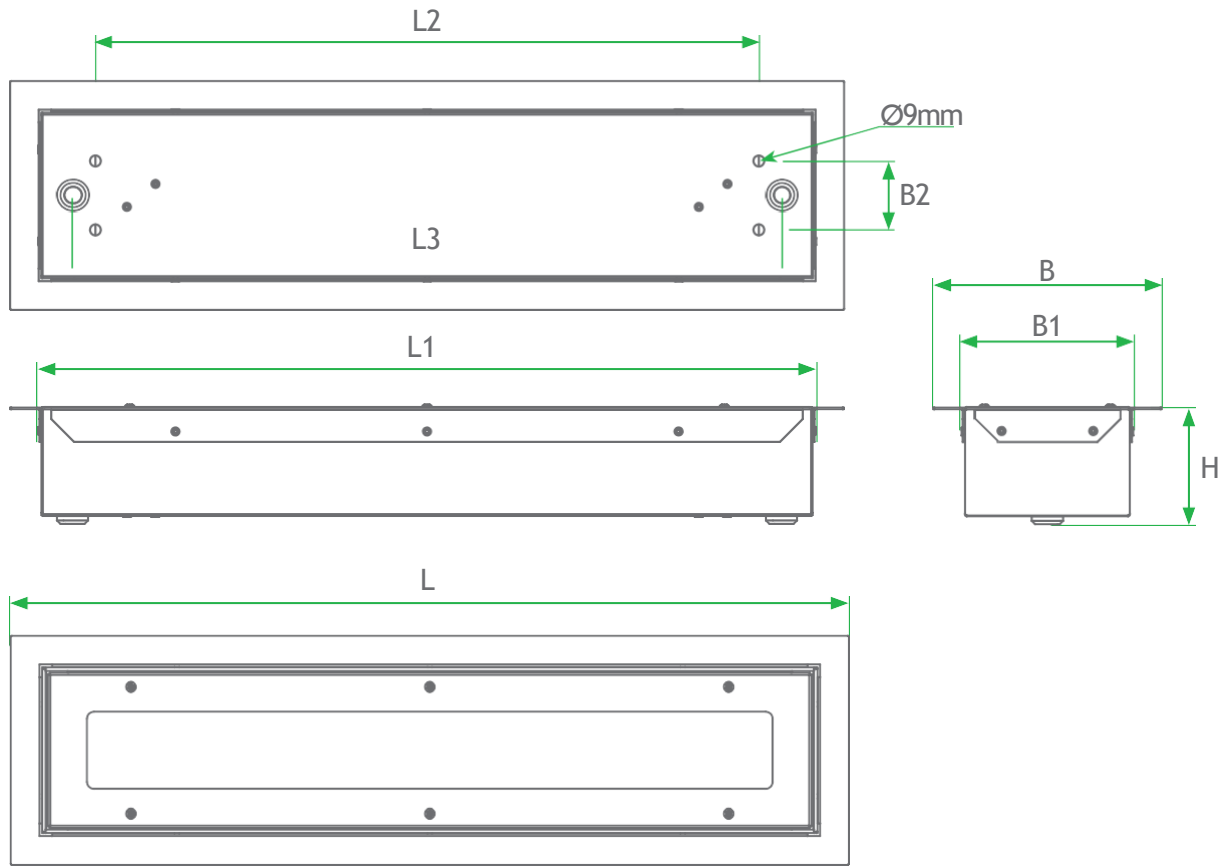
color temperature



Attention:

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

DIMENSIONS



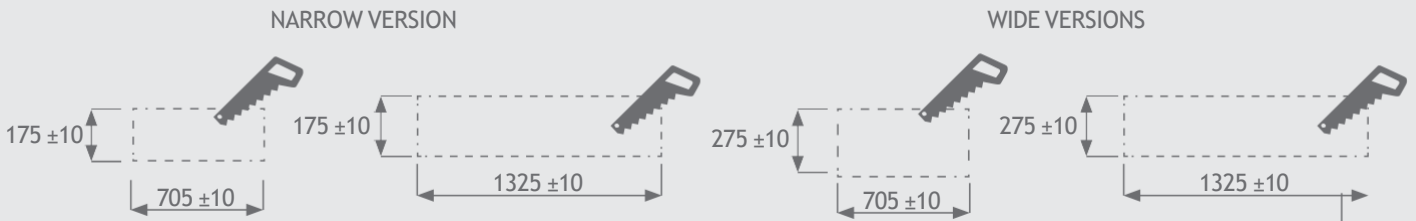
NARROW VERSION

TYPE	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	B [mm]	B1 [mm]	B2 [mm]	H [mm]	weight [kg]
INV320LED-1200-RC	1360	1310	800	1100	200	150	60	100	~ 11,5 <small>gross weight of standard versions</small>

WIDE VERSION

TYPE	L [mm]	L1 [mm]	L2 [mm]	L1 [mm]	B [mm]	B1 [mm]	B2 [mm]	H [mm]	weight [kg]
INV320LED-0600-RC	730	680	580	620	305	255	130	100	~ 9,3
INV320LED-1200-RC	1360	1310	800	1100	305	255	130	100	~ 15,5 <small>gross weight of standard versions</small>

CUTOUT



## TYPES COMPARISON

## NARROW VERSIONS

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-1200-J2-1-...-RC	2288	18,2	126	45
INV320LED-1200-J2-3-...-RC	3187	26,2	122	45
INV320LED-1200-B2-1-...-RC	4576	35,4	129	40

## WIDE VERSIONS

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1-...-RC	2388	18,2	131	45
INV320LED-0600-J2-3-...-RC	3477	26,2	133	45
INV320LED-0600-B2-1-...-RC	4776	35,4	135	40
INV320LED-1200-J4-1-...-RC	4776	35,4	135	45
INV320LED-1200-J4-3-...-RC	6953	51,3	136	45
INV320LED-1200-B4-2-...-RC	10798	80,3	134	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 based on 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.elektrosvit.cz](http://www.elektrosvit.cz)

## MAXIMAL NUMBER OF LIGHT FITTINGS CONNECTED IN LINE

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

Light fitting	B16	C16	Starting current	Starting time
INV320LED-J2, B2, J4	10	16	32A	< 355 $\mu\text{s}$
INV320LED-B4	5	8	65A	< 268 $\mu\text{s}$

## WYPOSAŻENIE OPCJONALNE



DALI -2 interface:

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  $-30^{\circ}\text{C}$  DALI functionality may be limited. Power supply at terminal > 12V.




Motion sensor:


Motion and light level sensor.  
Luminaire dimensions with sensor differ from the standard version.

**SNS**


## WERSJE AWARYJNE


**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 Hybrid SOAM-01.

**ZBH**

Work temperatures range: -35 °C to +45 °C.

## MEAN EMERGENCY MODE LUMINOUS FLUX

## NARROW VERSION

TYPE	VERSION A3 / A3S [lm]	VERSION ZB [lm]
INV320LED-1200-J2-1	565	1144
INV320LED-1200-J2-3	540	1594
INV320LED-1200-B2-1	741	2288

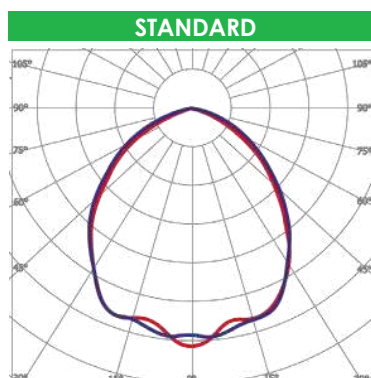
## WIDE VERSION

TYPE	VERSION A3 / A3S [lm]	VERSION ZB [lm]
INV320LED-0600-J2-1	444	1194
INV320LED-0600-J2-3	399	1739
INV320LED-0600-B2-1	438	2388
INV320LED-1200-J4-1	438	2388
INV320LED-1200-J4-3	384	3477
INV320LED-1200-B4-2	515	5399

**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



CONFIGURATIONS

I	N	V	3	2	0	L	E	D	-		-		-	3	E	-	1	1	P	C	I	-	NIRO	-	PC	-		-	II	-	RC	+ SNS										
<b>group</b> vandalproof fixtures									0	6	0	0	J	1	1	4	20											A3														
<b>type</b> type 320									1	2	0	0	B	2	2	5	22												A3S													
<b>source of light</b> LED modules														4	3		30											ZB														
<b>approximate length</b> - 600mm, 1200mm, 1500mm																		33											ZBS													
<b>LED module type</b>																		40										ZBH														
<b>LED module quantity</b>																		44																								
<b>driving current</b>																		70																								
<b>power supply</b> 34E - 220-240V 50÷60Hz 35E - 220-240V 0/50÷60Hz																																										
<b>wiring</b>																																										
20 - single 2-pole terminal									→	2																																
22 - double 2-pole terminal									→	2	2																															
30 - single 3-pole terminal									→	3																																
33 - double 3-pole terminal									→	3	3																															
40 - single 4-pole terminal									→	4																																
44 - double 4-pole terminal									→	4	4																															
70 - single 7-pole terminal									→	7																																
77 - double 7-pole terminal									→	7	7																															
<b>cable inlets - quantity</b>																																										
11 - 2 cable inlets by the sides of the bottom of the housing									→	1	1																															
<b>cable inlets - type</b>																																										
PCI - rubber cable inlets Ø20																																										
<b>housing material</b>																																										
NIRO - stainless steel																																										
<b>shade material</b>																																										
PC - prismatic polycarbonate (Exolon® UV Clear 2099 RH)																																										
<b>emergency versions</b>																																										
A3 - version with 3h emergency module available only with 34E power supply (230V/ 50÷60Hz). Ambient temperature must be higher than 0 °C.																																										
A3S - version with 1h emergency module available only with 34E power supply (230V/ 50÷60Hz). Ambient temperature must be higher than -20 °C.																																										
ZB - version with driver for central battery without a switching module.																																										
ZBS - version with switching module MSU 3S.																																										
ZBH - version with switching module SOAM-01.																																										
<b>protection class</b>																																										
II - II class																																										
<b>mounting</b>																																										
RC - recessed mounting																																										
<b>optional equipment</b>																																										
SNS - motion and light level sensor adjustable manually on the module																																										