

INV320LED-RC shelters





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

EXEMPLARY APPLICATIONS



PLATFORM SHELTERS



PASSAGEWAYS



PLACES PRONE TO
ACTS OF VANDALISM

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 in the platform shelters and passageways.

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**.

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



M20 (wire 6-13mm)
PCI (wire 8-13mm)

cable inlets



L-N: 10kV

overvoltage protection



OTHER

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

PHOTOMETRICAL PARAMETERS

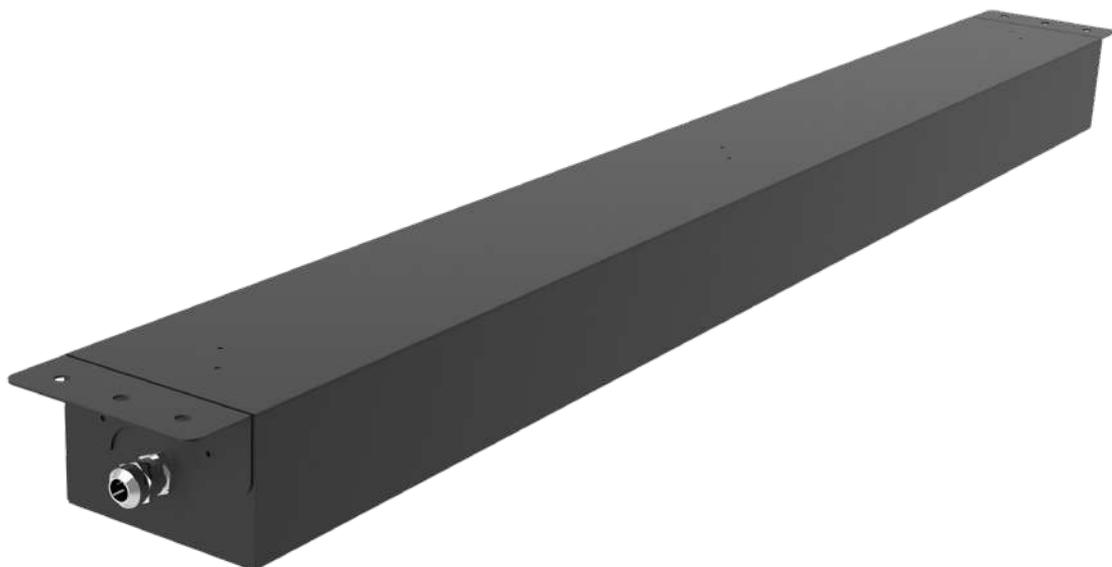
>80

CRI



4000K
3000K - *optionally*

colour temperature



Note:

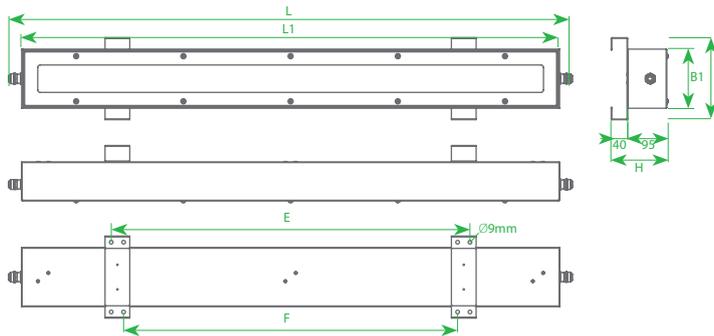
As standard, the housing is equipped with one gland at each end of the housing (11M20)

DIMENSIONS - NARROW VERSIONS

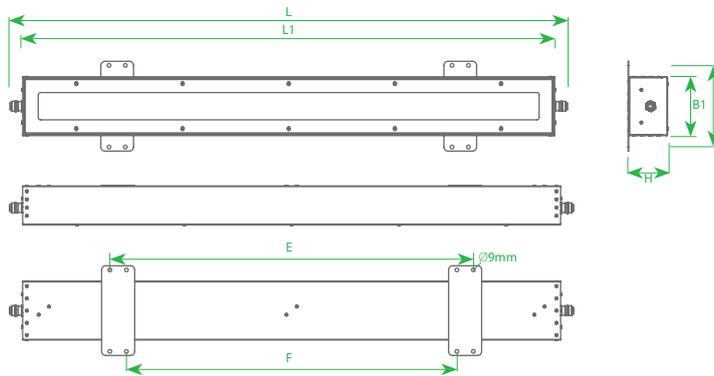
MOUNTING AMO20



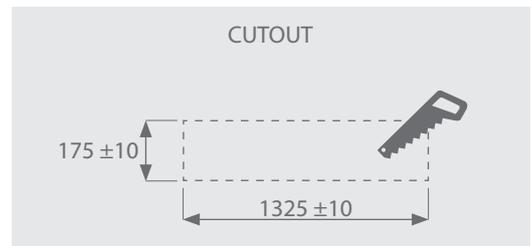
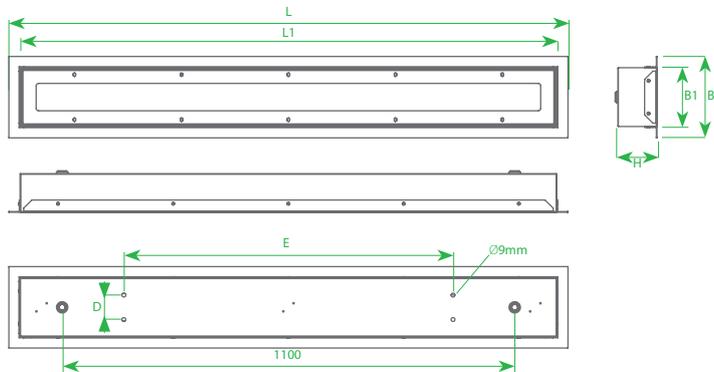
MOUNTING AMO21



MOUNTING AMO22



MOUNTING AMORC



TYPE	L	L1	B	B1	D	E	F	H	weight [kg]
INV320LED-...RC-AMO20	1405	-	145	-	90	1360	-	100	~10,0
INV320LED-...RC-AMO21	1365	1305	200	145	170	870	810	135	~10,0
INV320LED-...RC-AMO22	1365	1305	220	145	200	880	800	100	~10,0
INV320LED-...RC-AMORC	1360	1310	200	150	60	800	-	100	~11,0

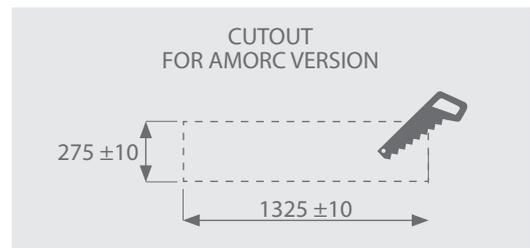
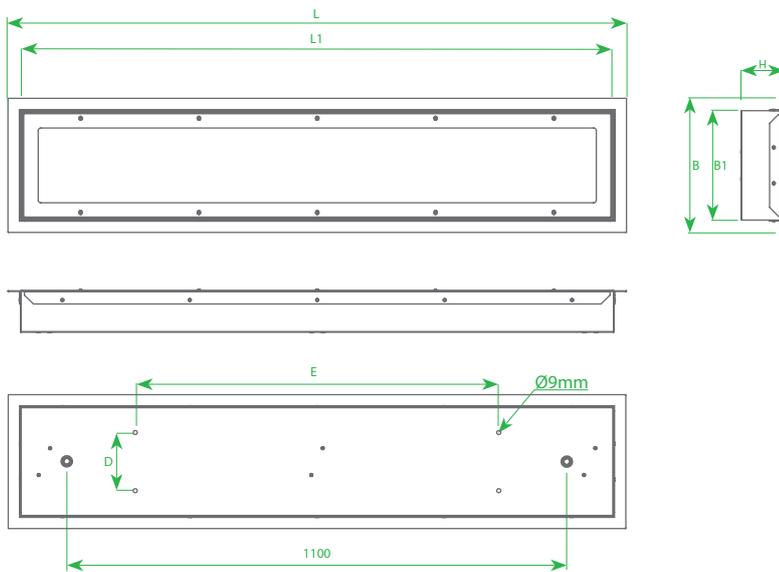
gross weight
of standard version

DIMENSIONS - WIDE VERSIONS

MOUNTING AMO20



MOUNTING AMORC



TYPE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	D [mm]	D1 [mm]	E [mm]	H [mm]	weight [kg]
INV320LED-1200-..-AMO20	1405	-	230	-	-	140	1360	100	~ 14
INV320LED-1200-..-AMORC	1360	1310	305	255	130	-	800	100	~ 15,5 <i>standard version weight</i>

TYPES COMPARISON

NARROW VERSIONS

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

WIDE VERSIONS

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. WORK TEMP. [°C]
INV320LED-1200-J4-3	6729	51,3	131	45
INV320LED-1200-B4-2	10450	80,3	130	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 fitting	B16	C16	Starting current	Starting time
INV320LED-J2, B2, J4	10	16	32A	< 355μs
INV320LED-B4, J4M2	5	8	65A	< 268μs

EMERGENCY VERSION

 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. Work temperatures range: -5°C to +45°C.	ZBS
 ZBH	Switching module: ⚡ 35E	Version with driver for central battery - with switching module Hybryd SOAM-01. Work temperatures range: -35°C to +45°C.	ZBH

MEAN EMERGENCY LUMINOUS FLUX

TYPE	A3 / A3S [lm]	ZB, ZBS, ZBH [lm]
INV320LED-1200-J2-1	565	1144
INV320LED-1200-J2-3	540	1594
INV320LED-1200-B2-1	741	2288
INV320LED-1200-J4-3	733	3365
INV320LED-1200-B4-2	735	5225

OPTIONAL EQUIPMENT

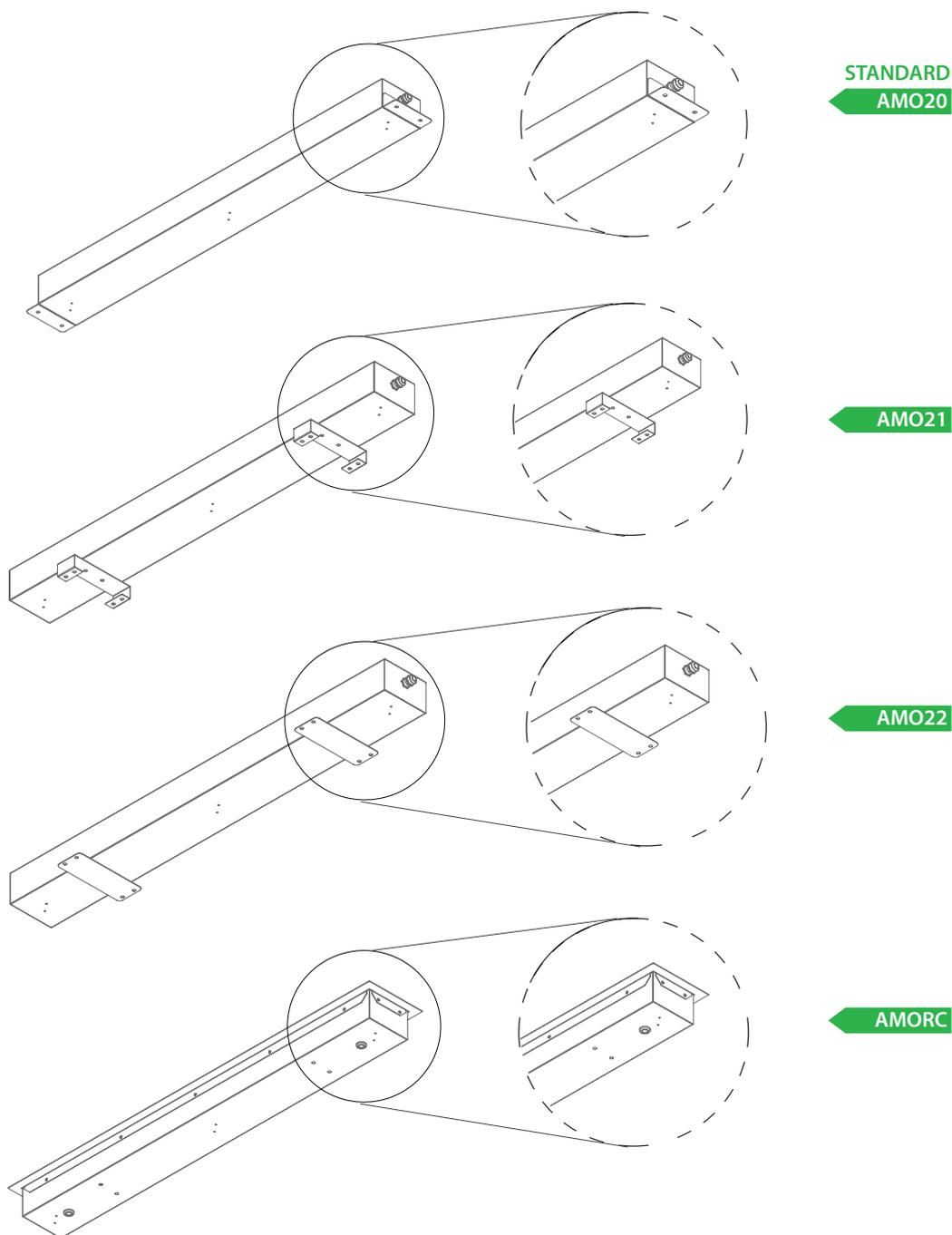
 DALI -2 interface:	Version equipped with driver with DALI-2 interface	DA
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Optional DA version has been equipped with integrated driver with DALI-2 interface, which allows to monitor work of the luminaires, thanks to the data collected from the sensors or building information management system (BIM). Proper system configuration may reduce power consumption, costs and improve work ergonomics for users.

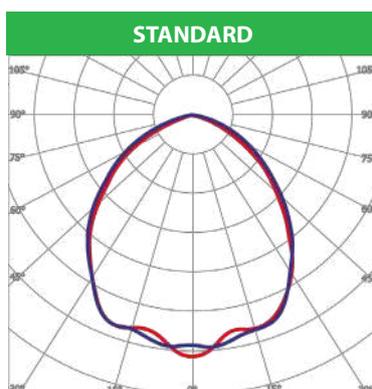
For temperatures below -30°C DALI functionality may be limited. Power supply at terminal > 12V.

 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.
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MOUNTINGS



PHOTOMETRY



CONFIGURATIONS

I	N	V	3	2	0	L	E	D	-	1	2	0	0	-			-	-	3	E	-		-	1	1	M	2	0	-	NIRO	-	PC	-			-	II	-	RC	-	AMO20	
																					J	2	1	4	20	PCI										A3						AMO21
																					B	4	2	5	22											A3S						AMO22
																							3		30											ZB						AMORC
																									33											ZBS						
																									40											ZBH						
																									44																	
																									70																	
																									77																	

group
vandalproof light fittings
type
type 320

source of light
LED modules

approximate length
~ 1200m

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

cable inlets - quantity
11 - cable inlet on each side of the bottom of the housing → 1 1 ←

cable gland - size
M20 - Ø20 cable gland made of metal
PCI - rubber cable inlet 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 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 switching module.
ZBS - version with driver for central battery with switching module MSU 3S.
ZBH - version with driver for central battery with switching module SOAM-01.

protection class
II - II class

mounting

ADDITIONAL INFORMATION

Additional mounting accessories are designed for the client's project. The light fitting is intended for installation on the roofs of platforms. Thanks to the solid and compact construction, high resistance to mechanical damage is ensured. Special tools are required to dismantle the system components, which prevents unauthorized access.

DOWNLOADS