



VANDALPROOF
LED
LIGHT FITTINGS
FOR RAILWAY INFRASTRUCTURE
AND UNDERPASSES







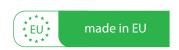
ABOUT US

We are a producer of advanced, heavy duty light fittings dedicated to spwcial work conditions. Our factory located in Gdansk, Poland. We are specialised in the following branches:

- Explosionproof light fittings,
- Vandalproof light fittings for railway facilities and underpasses,
- Custodial light fittings,
- Light fittings for food industry and animal husbandry,
- Light fittings for factories and warehauses.

Close cooperation with the Client, innovative solutions and individual approach to each project distinguishes us for over 10 years. The approach caused lots of success stories all around the world (e.g. Germany, UK, Belgium, Saudi Arabia, Qatar, Morocco, Vietnam, Singapore). We support our Clients in each stage - project, lighting projects according to the standards, mounting solutions. Furthermore we can develope special purpose light fittings and accessories dedicated to specific application.

Our products are made of the high quality materials, which guarantees high durability and reliability. All our light fixtures are manually assembled in Poland by our qualified team of employees. We have a certified Quality Management System in accordance with ISO9001.







VANDALPROOF LIGHT FITTINGS FOR RAILWAY INFRASTRUCTURE AND UNDERPASSES:



INV320LED-..-SF





INV320LED-..-RC



VANDALPROOF LINE SYSTEMS:

INV320LED-..-RC-LN







UNDER THE SHELTERS:







INV320LED























CERTYFICATES: CE, PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS





PASSAGEWAYS

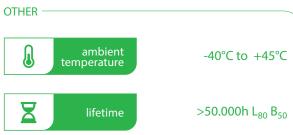
LED modules light fixture characterised by very high shock resistance (IK10+). The housing is made of powder coated stainless steel. The shade is made of polycarbonate. The fixture has been designed to be mounted in the passageways in the space between the wall and the ceiling. The fixture has a Polish National Railways certificate no. **D/IST/04/2019**

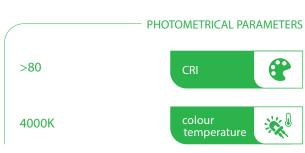


- FEATURES









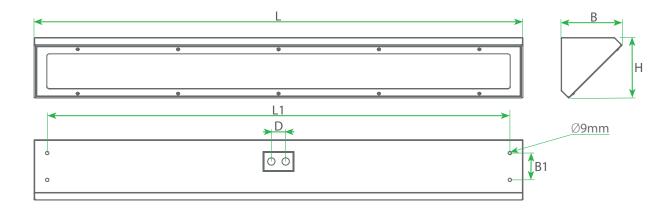




Attention

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]
INV320LED-0600	760	652	170	170	40	75
INV320LED-1200	1370	1290	170	170	40	75
INV320LED-1500	1670	1590	170	170	40	75

TYPES COMPARSION -

TYPE OF LIGHT FITTING	LUMINOUS FLUX [lm]	POWER [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1	2103	18,8	112	45
INV320LED-0600-J2-3	2993	27,2	108	45
INV320LED-0600-B2-1	4281	36,6	117	45
INV320LED-0600-B2-2	4836	42,1	115	45
INV320LED-1200-J4-1	4173	36,6	114	45
INV320LED-1200-J4-2	4715	42,1	112	45
INV320LED-1200-J4-3	5755	53,5	108	45
INV320LED-1200-B4-1	8721	72,1	121	45
INV320LED-1500-J4M2-1	5259	45,4	116	45
INV320LED-1500-J4M2-2	6142	55,9	110	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 17025:2005, norm series EN13032 and LM-79.

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



OPTIONAL VERSIONS



MEAN EMERGENCY MODE LUMINOUS FLUX

TYPE OF LIGHT FITTING	VERSION A3 [lm]
INV320LED-0600-J2-1	506
INV320LED-0600-J2-3	457
INV320LED-0600-B2-1	515
INV320LED-0600-B2-2	496
INV320LED-1200-J4-1	502
INV320LED-1200-J4-2	484
INV320LED-1200-J4-3	485
INV320LED-1200-B4-1	525
INV320LED-1500-J4M2-1	498
INV320LED-1500-J4M2-2	461



Emergency power module: Version with 1h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be higher than -20 °C.





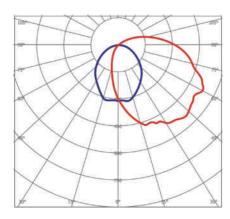


Switching module:

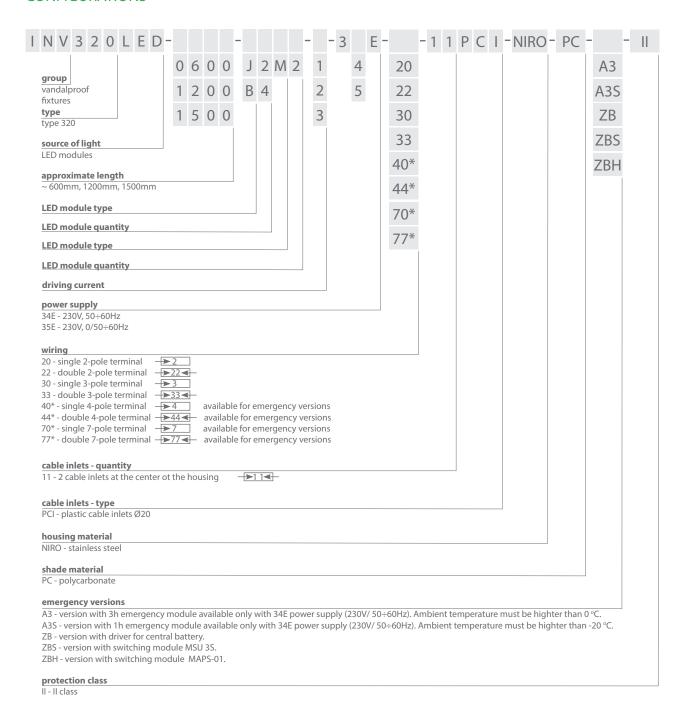


There is a possibility to order a linear lighting system which is a perfect solution to hide the wiring and to ensure additional functionalities. For more details please contact the customer service office.

PHOTOMETRY

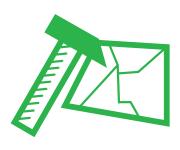


CONFIGURATIONS











INV320LED-..-SF























CERTIFICATES: CE, PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS





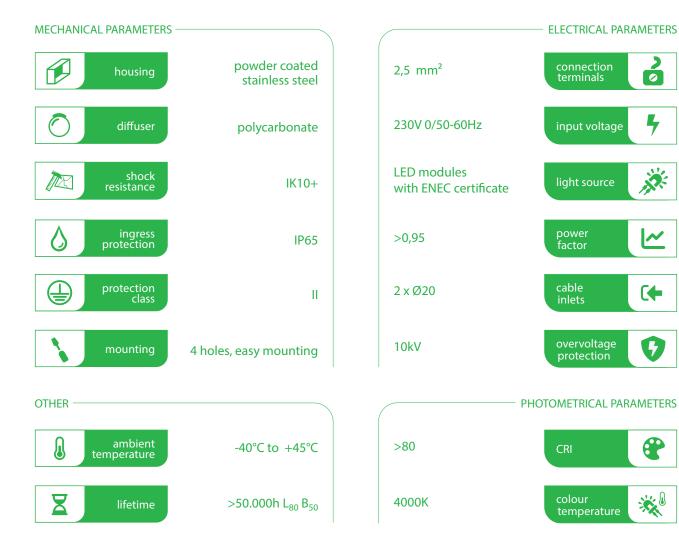
PASSAGEWAYS

LED modules light fixture characterised by very high shock resistance (IK10+). The housing is made of powder coated stainless steel. The shade is made of polycarbonate. The fixture has been designed to be mounted on the ceiling or wall.

The fixture has a Polish National Railways certificate no. D/IST/04/2019



- FEATURES

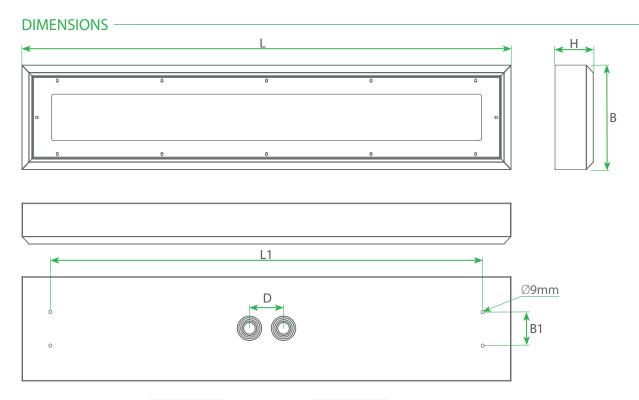






Attention

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



TYPE OF THE FIXTURE	L [mm]	L1 [mm]	B [mm]	B1 [mm]	H [mm]	D [mm]
INV320LED-0600SF	760	594	280	90	110	60
INV320LED-1200SF	1370	1240	280	90	110	60
INV320LED-1500SF	1670	1240	280	90	110	60

TYPES COMPARSION -

STANDARD VERSION

317111271112 121131311				
TYPE OF THE FIXTURE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1SF	2113	18,8	112	45
INV320LED-0600-J2-3SF	2857	27,2	105	45
INV320LED-0600-B2-1SF	4171	36,6	114	45
INV320LED-0600-B2-2SF	4665	42,1	111	45
INV320LED-1200-J4-1SF	4420	36,6	121	45
INV320LED-1200-J4-2SF	4990	42,1	119	45
INV320LED-1200-J4-3SF	5921	53,5	111	45
INV320LED-1200-B4-1SF	9037	72,1	125	45
INV320LED-1200-B4-2SF	9853	83,2	118	45
INV320LED-1500-J4M2-1SF	5040	45,4	111	45
INV320LED-1500-J4M2-3SF	7237	72,7	129	45

VERSION 24VDC

TYPE OF THE FIXTURE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-D2-0SF	1720	20	115	45
INV320LED-0600-D4-0SF	4592	40	115	45
INV320LED-1200-D4-0SF	4592	40	115	45
INV320LED-1200-D8-0SF	9184	80	115	45



Luminous flux tolerance +/- 10%

Power tolerance +/- 10%

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



OPTIONAL VERSIONS



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

MEAN EMERGENCY MODE LUMINOUS FLUX

TYPE OF THE FIXTURE	VERSION A3 [lm]
INV320LED-0600-J2-1SF	508
INV320LED-0600-J2-3SF	445
INV320LED-0600-B2-1SF	502
INV320LED-0600-B2-2SF	479
INV320LED-1200-J4-1SF	532
INV320LED-1200-J4-2SF	512
INV320LED-1200-J4-3SF	499
INV320LED-1200-B4-1SF	544
INV320LED-1200-B4-2SF	519
INV320LED-1500-J4M2-1SF	477
INV320LED-1500-J4M2-3SF	465



Emergency power module: Version with 1h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be higher than -20 °C.

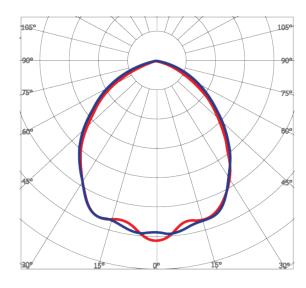




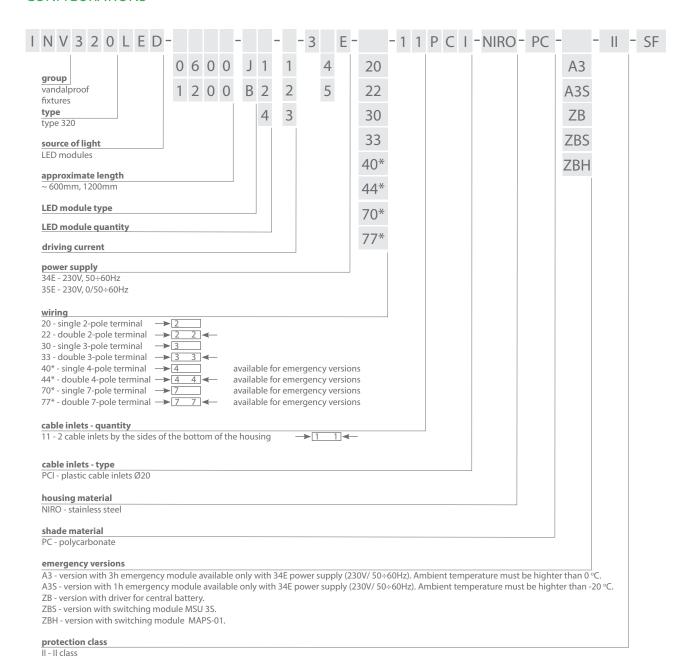




PHOTOMETRY



CONFIGURATIONS











INV320LED-..-RC























CERTIFICATES: CE, PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS





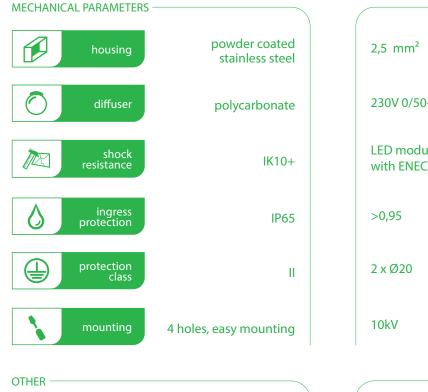
PASSAGEWAYS

LED modules light fixture characterised by very high shock resistance (IK10+). 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 recess in the ceiling or wall.

The fixture has a Polish National Railways certificate no. D/IST/04/2019

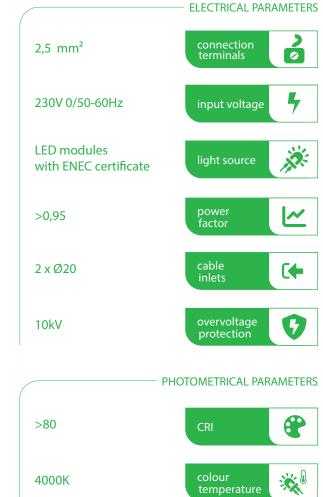


- FEATURES



-40°C to +45°C

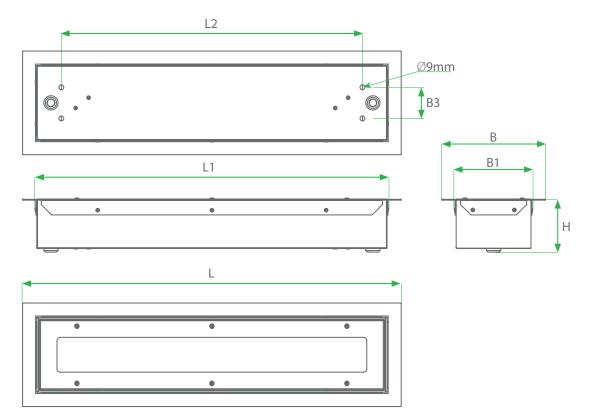
>50.000h L₈₀ B₅₀





ambient temperature

DIMENSIONS -

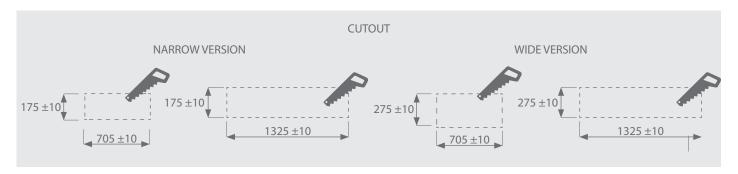


NARROW VERSION

TYPE	L [mm]	L1 [mm]	L2 [mm]	B [mm]	B1 [mm]	B3 [mm]	D [mm]
INP320LED-0600RC	730	680	580	200	150	60	100
INP320LED-1200RC	1360	1310	800	200	150	60	100

WIDE VERSION

TYPE	L [mm]	L1 [mm]	L2 [mm]	B [mm]	B1 [mm]	B3 [mm]	D [mm]
INP320LED-0600RC	730	680	580	305	255	130	130
INP320LED-1200RC	1360	1310	800	305	255	130	130



TYPES COMPARSION

NARROW VERSION

TYPE OF THE FIXTURE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J1-1RC	1070	9,9	108	45
INV320LED-0600-J1-3RC	1420	14,1	101	45
INV320LED-0600-B1-1RC	2140	18,8	114	45
INV320LED-0600-B1-2RC	2237	21,6	104	40
INV320LED-1200-J2-1RC	2140	18,8	114	45
INV320LED-1200-J2-3RC	2766	27,2	101	45
INV320LED-1200-B2-1RC	4280	36,6	117	40

Continued on the next page.



TYPES COMPARSION

WIDE VERSION

TYPE OF THE FIXTURE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]
INV320LED-0600-J2-1RC	2140	18,8	114	45
INV320LED-0600-J2-3RC	2766	27,2	101	45
INV320LED-0600-B2-1RC	4280	36,6	118	40
INV320LED-1200-J4-1RC	4260	36,6	118	45
INV320LED-1200-J4-3RC	5534	53,5	104	45
INV320LED-1200-B4-2RC	9067	83,2	109	40

OPTIONAL VERSIONS



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

MEAN EMERGENCY MODE LUMINOUS FLUX

NARROW VERSION

TYPE OF THE FIXTURE	VERSION A3 [lm]
INV320LED-0600-J1-1	418
INV320LED-0600-J1-3	389
INV320LED-0600-B1-1	444
INV320LED-0600-B1-2	465
INV320LED-1200-J2-1	444
INV320LED-1200-J2-3	399
INV320LED-1200-B2-1	438

WIDE VERSION

TYPE OF THE FIXTURE	VERSION A3 [lm]
INV320LED-0600-J2-1	444
INV320LED-0600-J2-3	399
INV320LED-0600-B2-1	438
INV320LED-1200-J4-1	438
INV320LED-1200-J4-3	384
INV320LED-1200-B4-2	515



Emergency power module:

Version with 1h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be higher than -20 °C



Version with driver for central battery







additional functionalities. For more details please contact the customer service office.

PHOTOMETRY

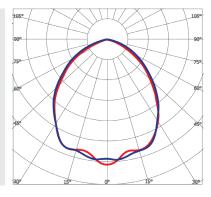
Luminous flux tolerance +/- 10% Power tolerance +/- 10%



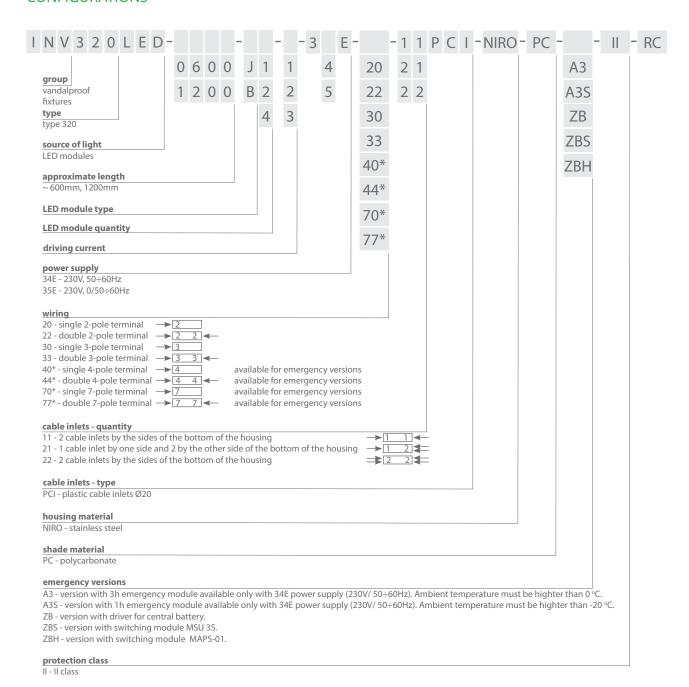
The parameters given in the following data sheet has been determined for the temperature Ta=25°C.

Luminous flux, light intensity distribution and efficiency has been tested on the basis of the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

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



CONFIGURATIONS











INV320LED-..-RC-LN

























CERTYFICATES FOR INV320LED: dopuszczenie PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS



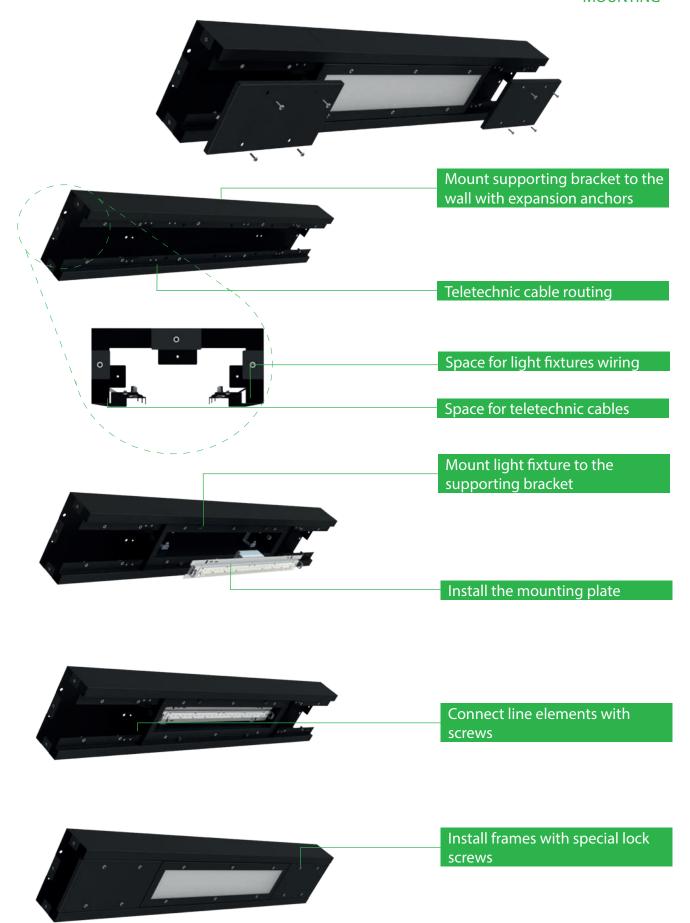


PASSAGEWAYS

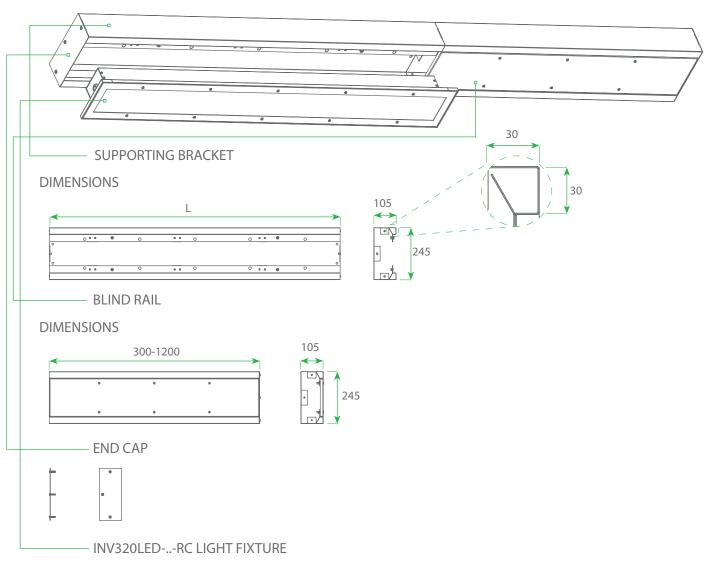
LED modules light fixture characterised by very high shock resistance (IK10+). The housing is made of powder coated stainless steel. The shade is made of polycarbonate. The fixture has been designed to be mounted in the passageways on the wall or the ceiling as a linear fixture. The fixture has a Polish National Railways certificate no. **D/IST/04/2019**

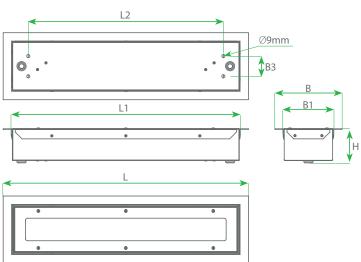


MOUNTING



DIMENSIONS -





NARROW VERSION

TYPE	L [mm]	L1 [mm]	L2 [mm]	B [mm]	B1 [mm]	B3 [mm]	D [mm]
INP320LED-0600RC	730	680	580	200	150	60	100
INP320LED-1200RC	1360	1310	800	200	150	60	100



OPTIONAL VERSIONS



INV320LED-..-LNC (CONNECTOR)

Vandalproof corner connector with possibility to adjust shape and size to ensure the continuity of the LINE system. Connector is mounted directly to the housing of adjacent modules. Made of stainless steel. Entire LINE modular system is equipped with locks to prevent unauthorized access.



INV320LED-..-LNP (BLIND PLUG)

Made of stainless steel, vandalproof, empty casing (blind plug) acting as a distance between light fixtures. Available in various lengths. Designed for corner mounting as one of the LINE system modules. Behind the housing there is a free space for routing cables.



INV320LED-..-LNS (SENSORBOX)

Made of stainless steel, vandal-proof housing designed for placing camers, speakers, sensors or other devices in it. It is also possible to mount sensors directly inside the light fixture. Housing is designed for corner mounting as one of the LINE system modules.

ADDITIONAL INFORMATION

Vandalproof line system is individually designed for the client's project. System is intended for installation in tunnels and undeground passages. Thanks to a solid and compact construction, high resistance to mechanical damage was ensured. Special tools are required to disassemble system components, which prevents unauthorized access.

Maximum quantity of light fixtures connected in series for specific circuit breaker

Automatic circuit breaker type	C16	C20	B16	B20	B20
INV320LED-0600-J2	26	35	16	21	21
INV320LED-0600-B2	20	25	12	15	15
INV320LED-1200-J4	20	25	12	15	15
INV320LED-1200-B4	16	22	8	11	11
INV320LED-1500-J4M2	20	25	12	15	15

Maximum cross current - 16A

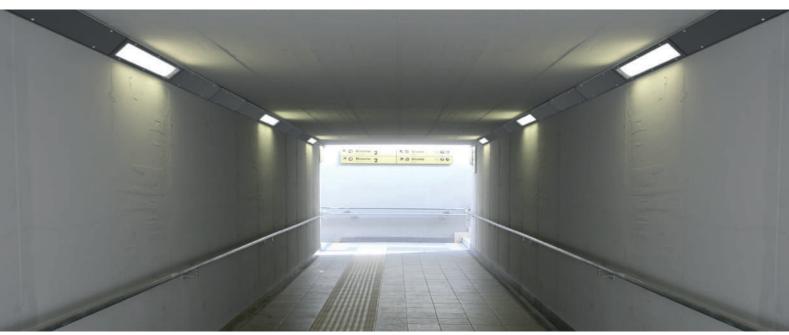


DOWNLOADS





INV320LED-..-LN

























CERTYFICATES FOR INV320LED: dopuszczenie PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS



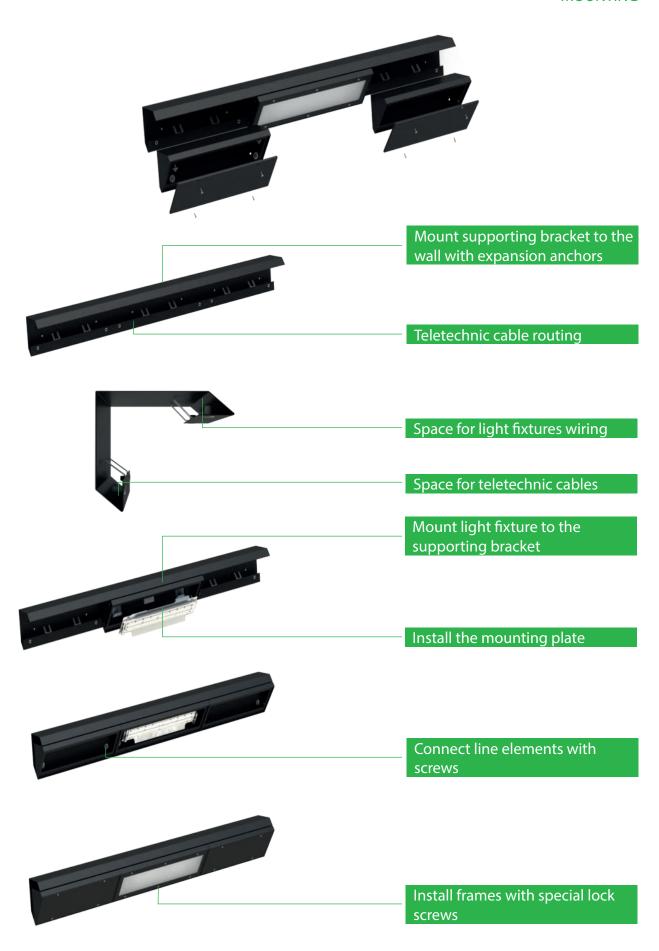


PASSAGEWAYS

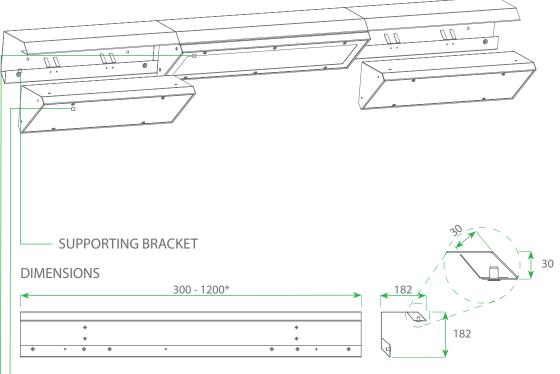
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MOUNTING

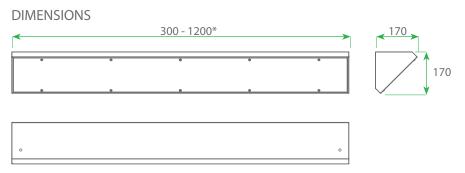


DIMENSIONS -



* - length of installation rail depends on individual project

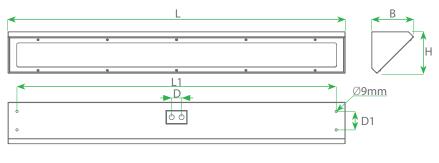
- BLINDING PLUG



^{* -} length of blinding plug depends on individual project

- INV320LED LIGHT FIXTURE

DIMENSIONS



TYPE	L	L1	В	Н	D	D1
INV320LED-0600	760	652	170	170	40	75
INV320LED-1200	1370	1290	170	170	40	75
INV320LED-1500	1670	1590	170	170	40	75



OPTIONAL VERSIONS



INV320LED-..-LNC (CONNECTOR)

Vandalproof corner connector with possibility to adjust shape and size to ensure the continuity of the LINE system. Connector is mounted directly to the housing of adjacent modules. Made of stainless steel. Entire LINE modular system is equipped with locks to prevent unauthorized access.



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ADDITIONAL INFORMATION

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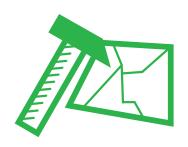
Maximum quantity of light fixtures connected in series for specific circuit breaker

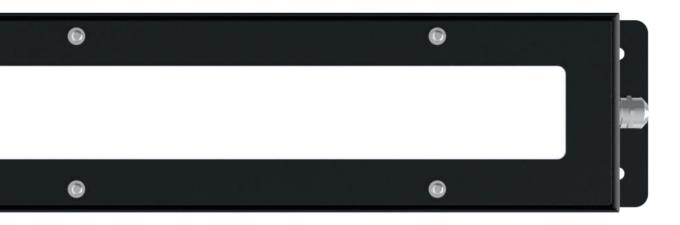
Automatic circuit breaker type	C16	C20	B16	B20	B20
INV320LED-0600-J2	26	35	16	21	21
INV320LED-0600-B2	20	25	12	15	15
INV320LED-1200-J4	20	25	12	15	15
INV320LED-1200-B4	16	22	8	11	11
INV320LED-1500-J4M2	20	25	12	15	15

Maximum cross current - 16A



DOWNLOADS





INV320LED-..-RC shelters

























CERTYFICATES FOR INV320LED: dopuszczenie PKP PLK, ENEC, CNBOP

EXEMPLARY APPLICATIONS





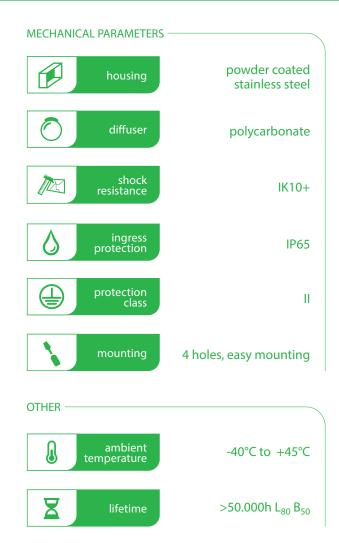


LED modules light fixture characterised by very high shock resistance (IK10+). The housing is made of powder coated stainless steel. The shade is made of polycarbonate. The fixture has been designed to be mounted in the platform shelters and passageways.

The fixture has a Polish National Railways certificate no. D/IST/04/2019



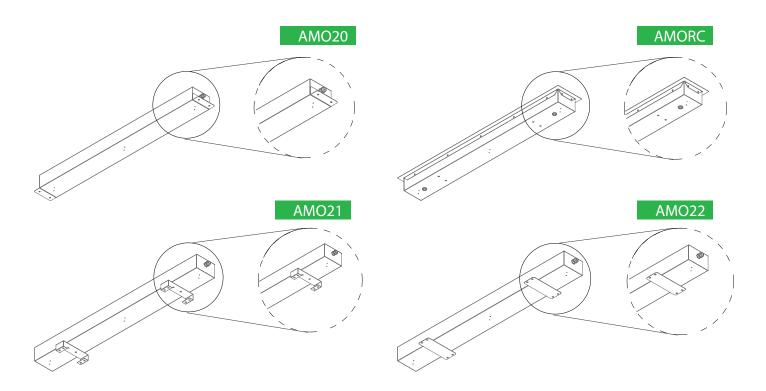
- FEATURES





MOUNTING

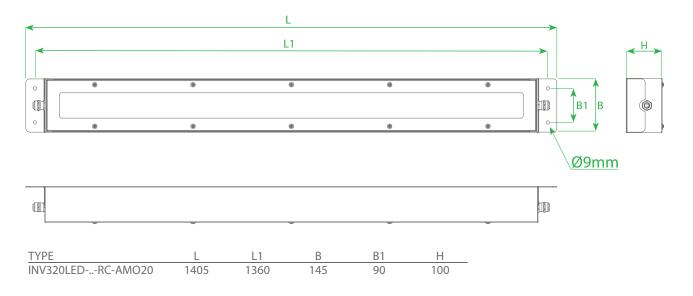
temperature



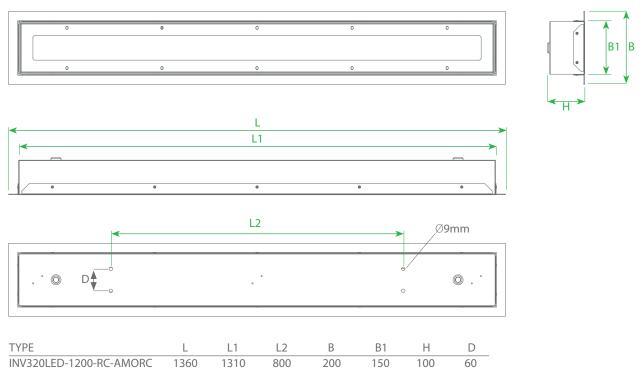
4000K

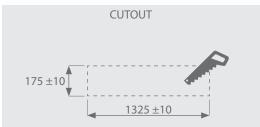
DIMENSIONS -

Mounting dimensions for fixing on railway platform sheds - AMO20

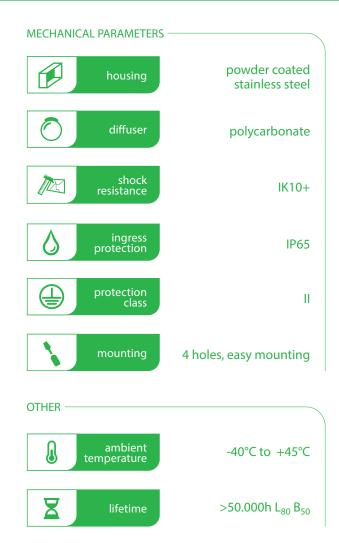


Mounting dimension for recessed fixing- AMORC





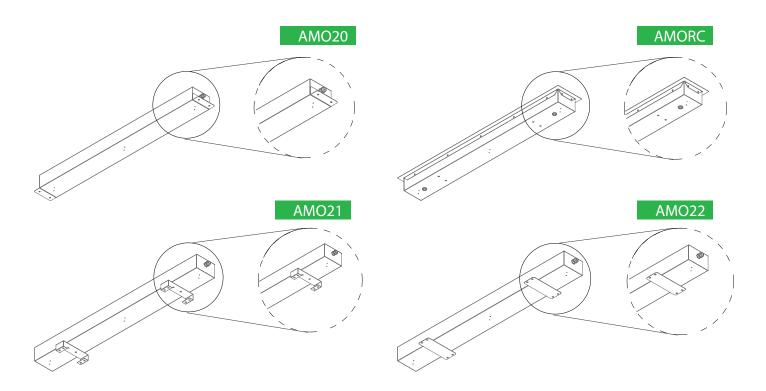
- FEATURES





MOUNTING

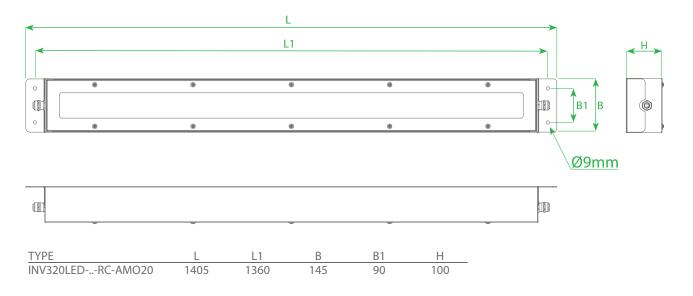
temperature



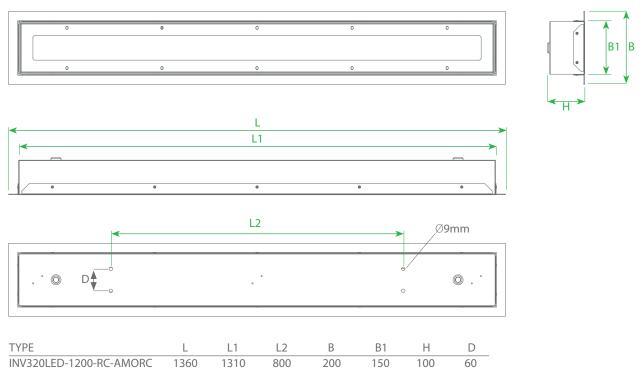
4000K

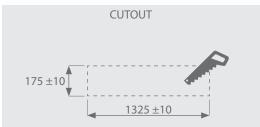
DIMENSIONS -

Mounting dimensions for fixing on railway platform sheds - AMO20



Mounting dimension for recessed fixing- AMORC





OPTIONAL VERSIONS



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

MEAN EMERGENCY MODE LUMINOUS FLUX

TYPE OF THE FITTINGS	A3 EMERGENCY VERSION [lm]
INV320LED-1200-J2-1	444
INV320LED-1200-J2-3	399
INV320LED-1200-B2-1	438



Emergency power module: Version with 1h emergency module, available only with 34E power supply (230V, 50-60Hz). The ambient temperature must be higher than -20 °C.

ZB

Version with driver for central battery





TYPES COMPARSION

TYPE OF THE FITTING	LUMINOUS FLUX [lm]	POWER SUPPLY [W]	EFFICIENCY [lm/W]	MAX. AMB. TEMP. [°C]	REPLACEMENT T8
INV320LED-1200-J2-1RC	2140	18,8	114	45	2x18W
INV320LED-1200-J2-3RC	2766	27,2	101	45	2x36W
INV320LED-1200-B2-1RC	4280	36,6	117	40	2x36W

PHOTOMETRY

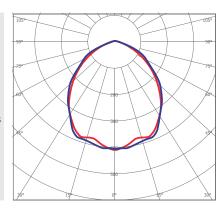
Luminous flux tolerance +/- 10% Power tolerance +/- 10%



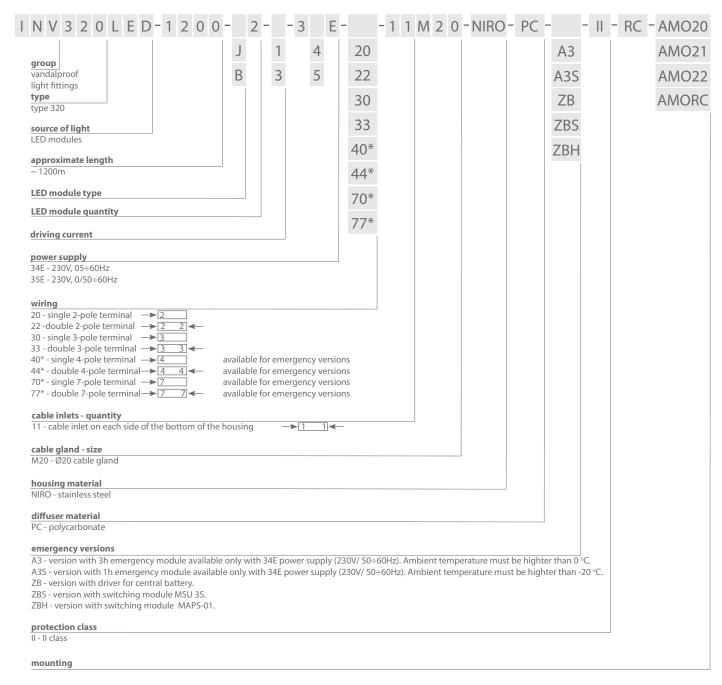
The parameters given in the following data sheet has been determined for the temperature Ta=25°C.

Luminous flux, light intensity distribution and efficiency has been tested on the basis of the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

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



CONFIGURATIONS



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.







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