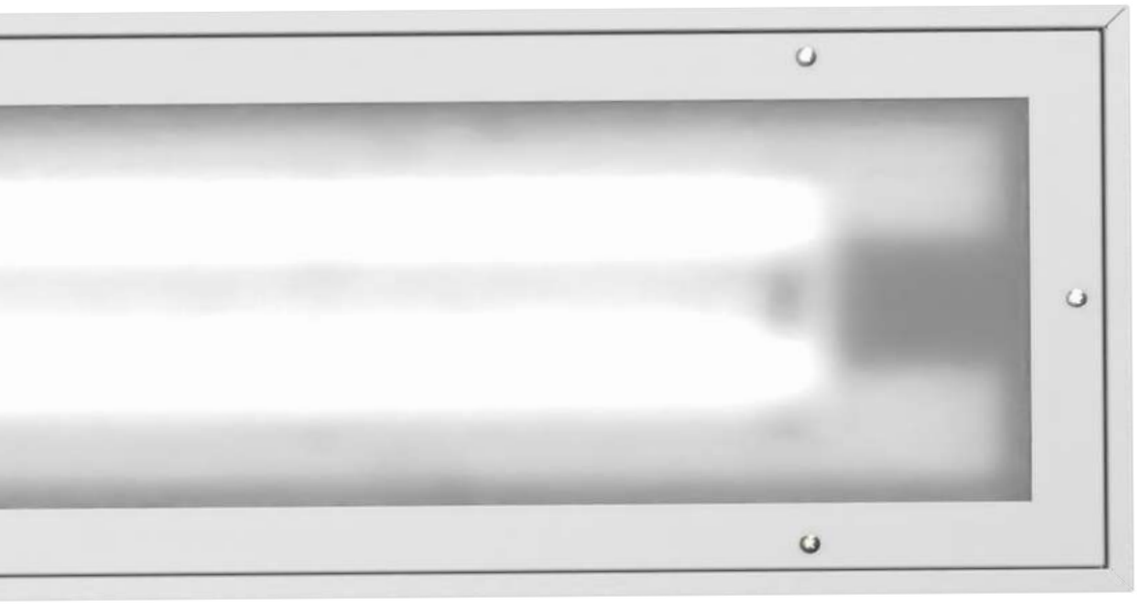
UV free



INS390LED White

V.2025-1

UV free

PZH | CLEANROOM | EMERGENCY 3h | +50°C | IP65 | CONTROL SYSTEM DALI

ISO Class 3 SUITABLE FOR CLEANROOMS Particle Emission Test

Clean Room CVertificate: **ISO 3-9 acc. ISO 14644-1:2-15**

Hygienic Certificate: in progress

EXEMPLARY APPLICATIONS

CLEAN ROOMS

CHEMICAL PLANTS

PHARMA

LABORATORIES

Industrial light fitting with **LED modules** for suspended coffered ceilings or to be mounted on the ceiling surface. The housing is made of powder coated stainless steel.

Optional version with autonomous **A3** emergency power source, equipped with DALI interface drivers **DA** or adapted to be powered from central battery **ZB**. An energy-saving option Constant Lumen Output **CLO** can be added optionally.

FEATURES

MECHANICAL PARAMETERS

housing	powder coated stainless steel (NIRO)
diffuser	tempered glass (GL) polycarbonate (PC)
ingress protection	IP65
protection class	I
mounting	surface (SF) recessed (RC) clip-in (CLIP) threaded rods (TR)
accessories	depending on the type of ceiling

ELECTRICAL PARAMETERS

connection terminals	2,5 mm^2 4,0 mm^2 - *optionally*
input voltage	**35E:** 220-240V 50-60Hz 220-240V 0Hz **34E:** 220-240V 50-60Hz
light source	speciallistic LED modules
power factor	>0,97
cable inlets	Ø20 *(wire 6-13mm)* Ø25 - *option (wire 10-17mm)*
overvoltage protection	**35E:** 4kV (L-N), 4kV (L-PE) **34E:** 1kV (L-N), 2kV (L-PE)

WORK PARAMETERS

ambient temperature	-40°C to +50°C
lifetime	>70.000h L_{80} B_{10} >100.000h L_{70} B_{10}
cleanroom	ISO Class 3

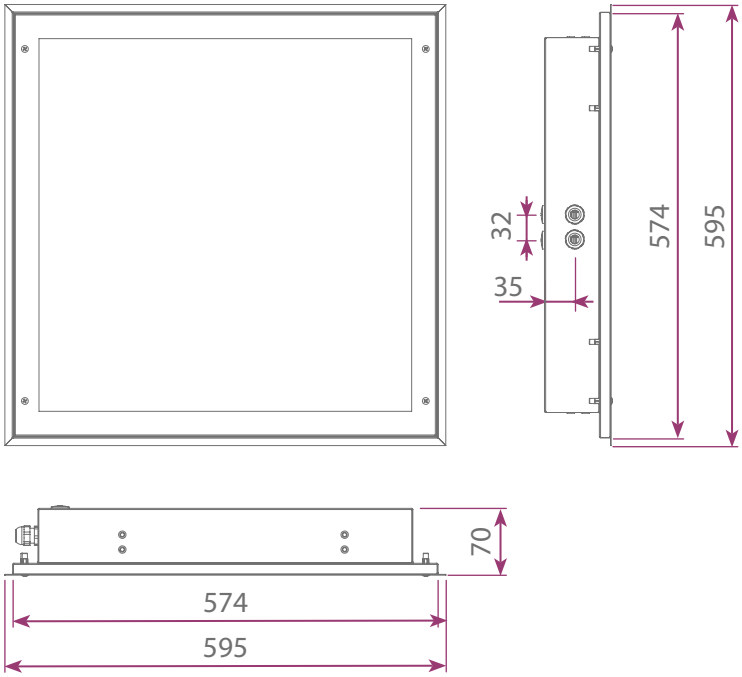
PHOTOMETRICAL PARAMETERS

CRI	>80 > 90 - *optionally*
white mode color temperature	4000K *6500K - optionally*

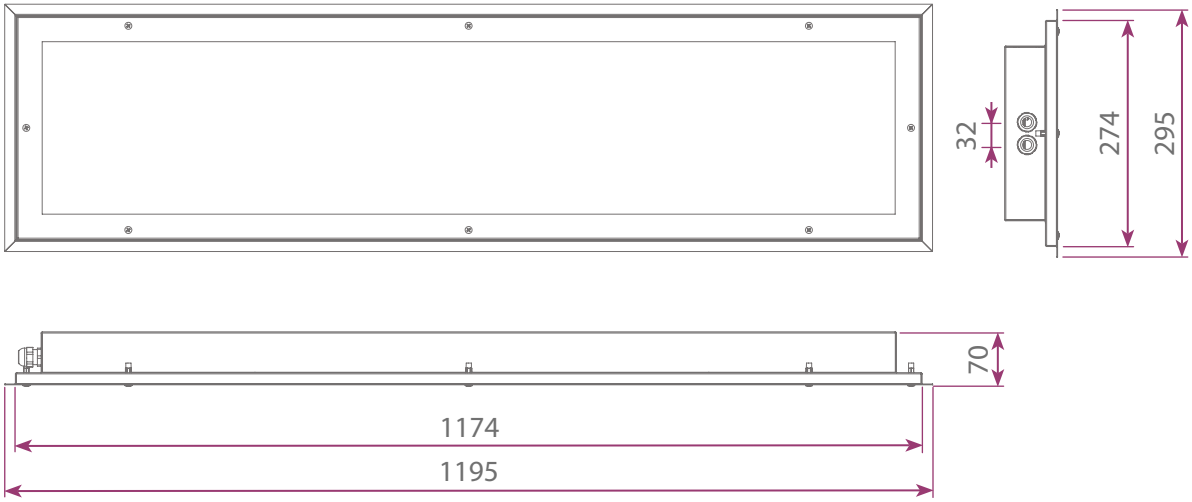
As a standard, the housing is equipped with a 11 gland system (two glands on one side of the housing).
This housing can be used both as a terminal and a cross-type.
The glands are equipped with sealing plugs, which should be left in place if the glands are not used.

DIMENSIONS - VERSION RC

INS390LED-0600-RC - version designed to be mounted in the suspended coffered ceilings.

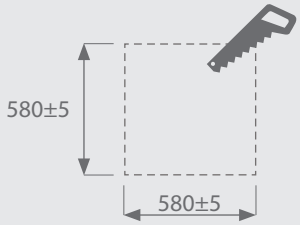


INS390LED-1200-RC - version designed to be mounted in the suspended coffered ceilings.



CUTOUT

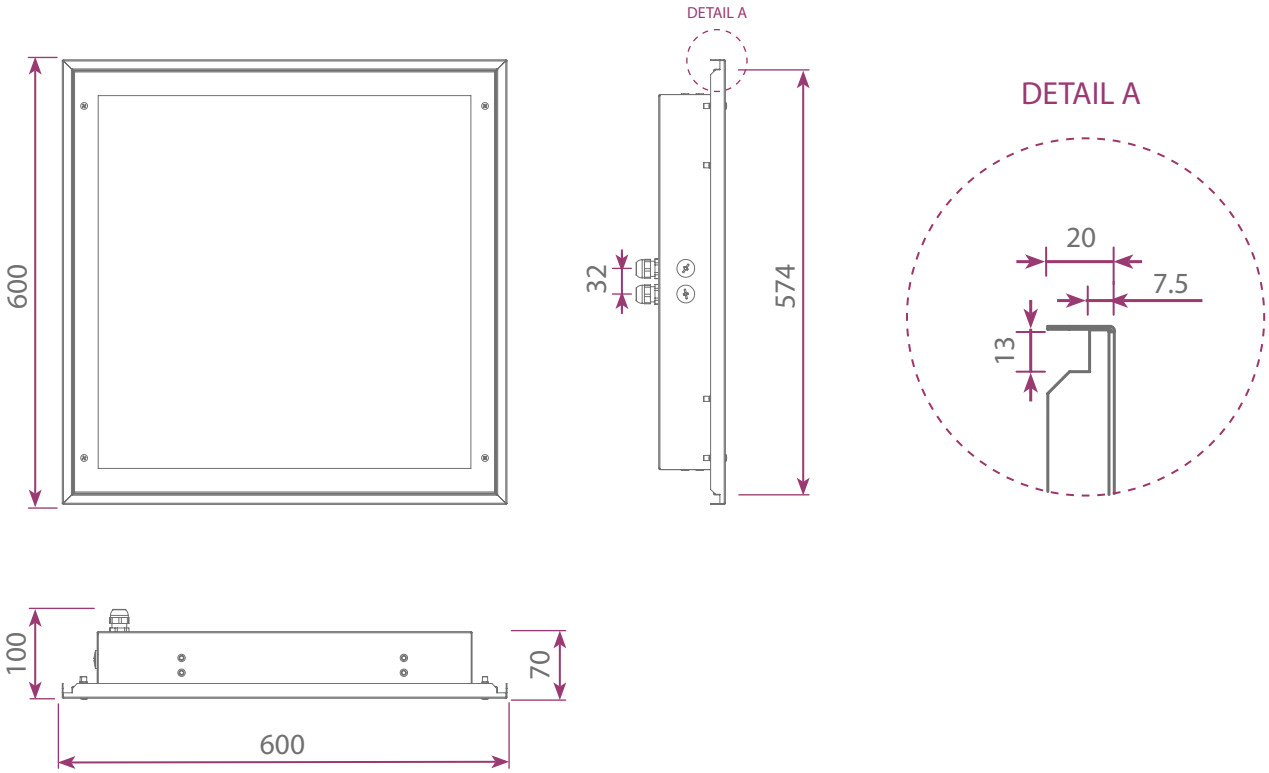
INS390LED-0600-..-RC



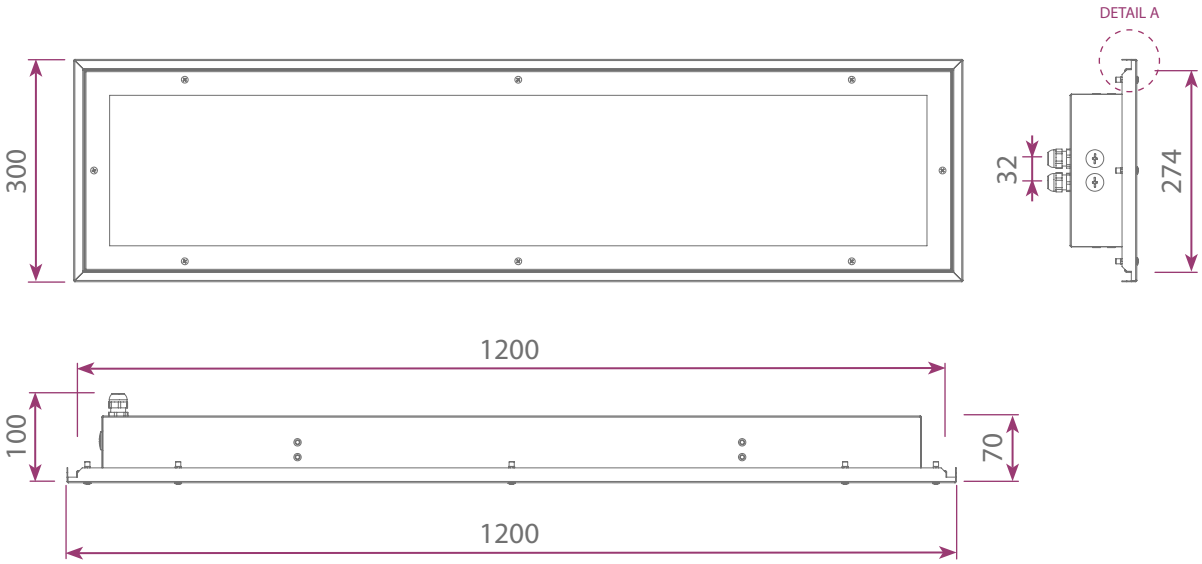
INS390LED-1200-..-RC

DIMENSIONS - VERSION CLIP1

INS390LED-0600-CLIP1 - version designed to be mounted in clip-in ceiling.

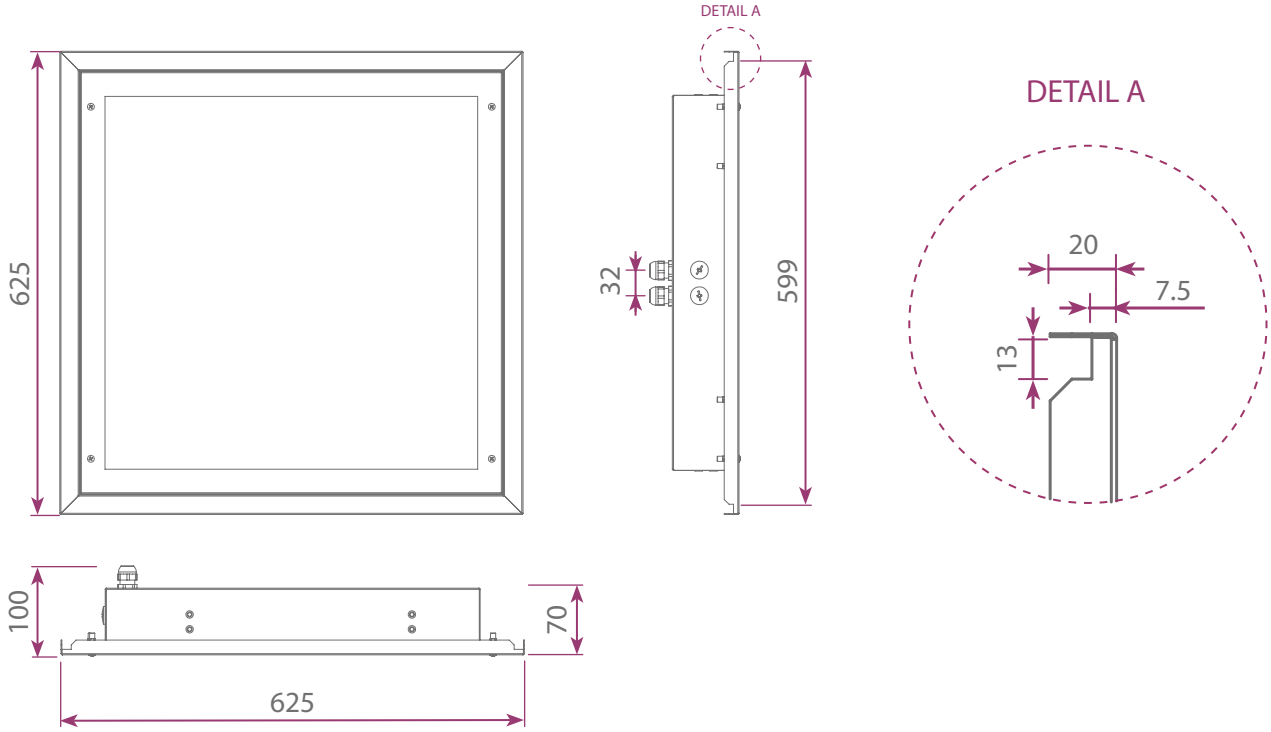


INS390LED-1200-CLIP1 - version designed to be mounted in clip-in ceiling.

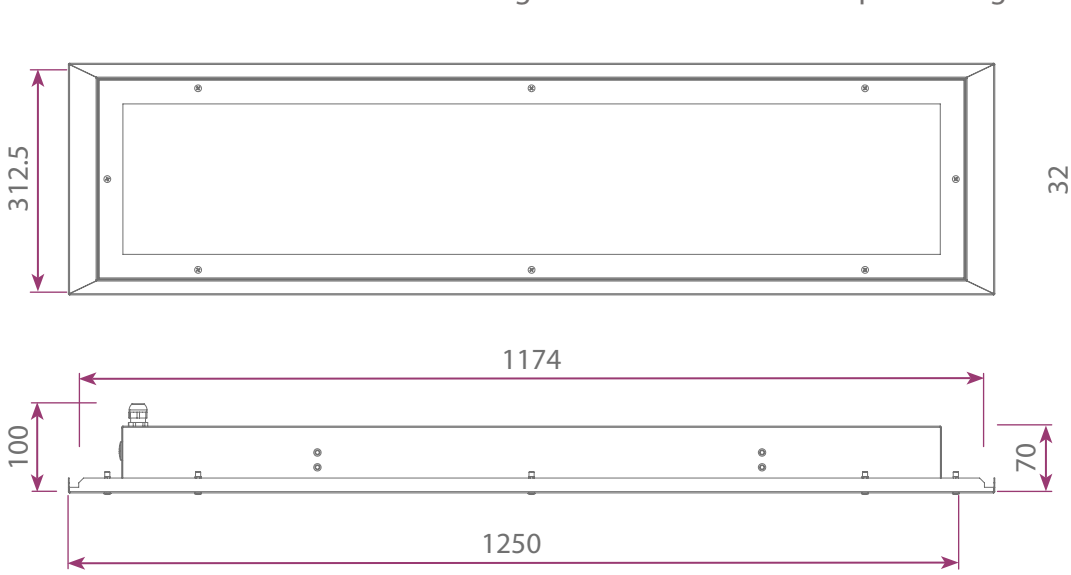


DIMENSIONS - WERSJA CLIP2

INS390LED-0600-CLIP2 - version designed to be mounted in clip-in ceiling.



INS390LED-1200-CLIP2 - version designed to be mounted in clip-in ceiling.



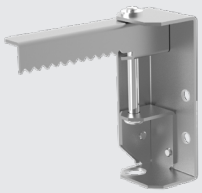
MOUNTING ACCESSORIES FOR VERSIONS RC, CLIP1 I CLIP2

ADJUSTABLE BRACKET

Recommended for mounting the INS390LED-..-RC & CLIP luminaire to the substructure of a coffered and suspended ceiling.

Standard height adjustment range from 25 to 45mm.

To adapt the bracket to a specific type of ceiling, please contact the Customer Service Office.

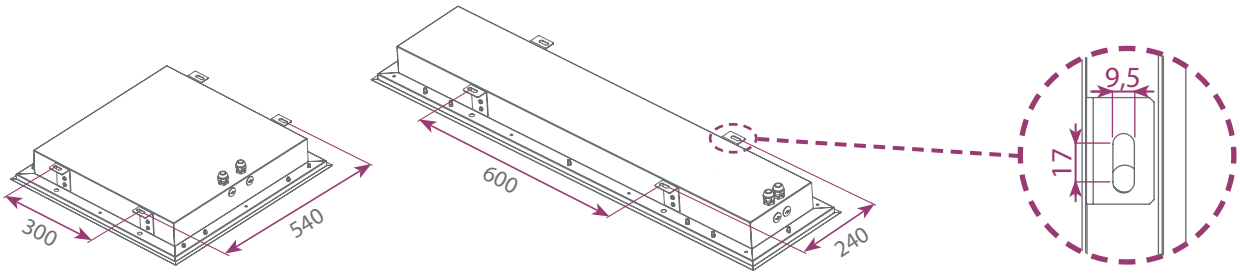


MOUNTING ACCESSORIES FOR VERSIONS RC, CLIP1 I CLIP2

THREADED RODS (TR)

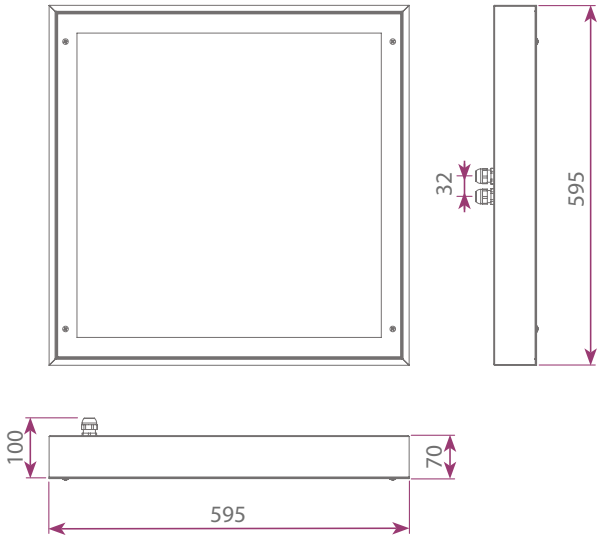
Accessory required for mounting INS390LED-..-RC & CLIP luminaires directly to ceiling structures using mounting pins.

In order to adapt the ceiling type to the range, please contact the Customer Service Office.

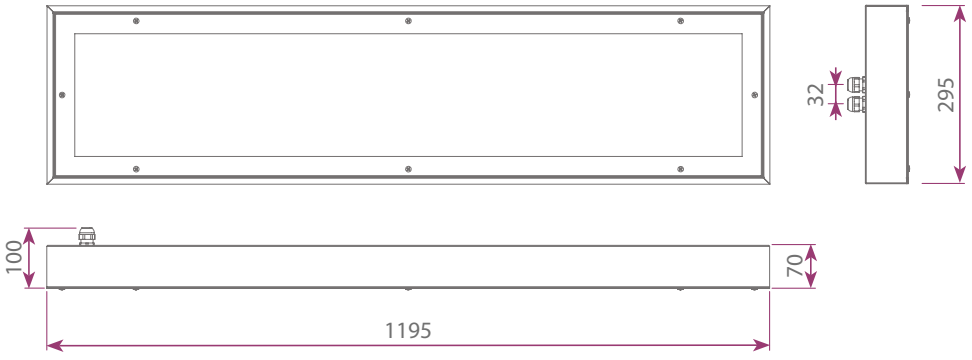


DIMENSIONS - VERSION SF

INS390LED-0600-SF - version designed to be mounted on the ceiling surface



INS390LED-1200-SF - version designed to be mounted on the ceiling surface



TYPES COMPARISON

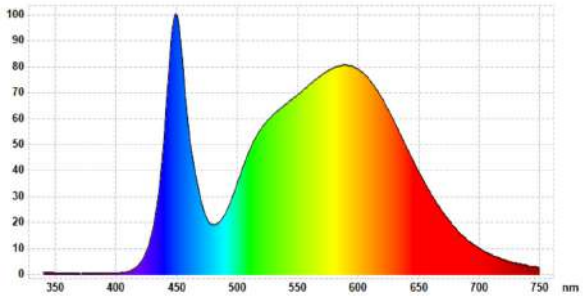
INS390LED-0600-X4

INS390LED-1200-X4

INS390LED-1200-X6

TYPE OF THE LIGHT FITTING	LUMINOUS FLUX [lm]	POWER CONSUMPTION [W]	EFFICIENCY [lm/W]	AMBIENT TEMPERATURE [°C]	WEIGHT [kg]
INS390LED-0600-X4-1	4830	35	138	-40 ÷ 50	~ 13,5
INS390LED-0600-X4-3	6600	47	140	-40 ÷ 50	~ 13,5
INS390LED-1200-X4-1	4720	35	135	-40 ÷ 50	~ 17,9
INS390LED-1200-X4-3	6450	47	137	-40 ÷ 50	~ 17,9
INS390LED-1200-X6-1	7080	53	134	-40 ÷ 45	~ 18,2
INS390LED-1200-X6-3	9650	71	136	-40 ÷ 40	~ 18,2

LIGHT SPECTRUM



4184 K; color peak 450,0 nm; color dominant 578,4 nm;
chromacity error 0,004; radiometric 14332,6948

NOTICE

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 17025:2018-2, norm series EN13032 and LM-79.

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

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

TYPE	B16	C16	Max. starting current	Starting time
INS390LED	27	45	4A	< 1300µs

OPTIONAL VERSIONS

Central battery:

Version adapted to work with central battery. **ZB**

DC voltage range: 176 - 280V, 0Hz.
Network switching is possible for temperatures above -35 °C.

Emergency power module:

Version with 3h emergency power supply module. Possibility to work in white mode above 0°C **A3**

MEAN EMERGENCY LUMINOUS FLUX

TYPE	LUMINOUS FLUX A3 [lm]	LUMINOUS FLUX ZB* [lm]
INS390LED-0600-X4-1	648	2415
INS390LED-0600-X4-3	612	3300
INS390LED-1200-X4-1	648	2360
INS390LED-1200-X4-3	612	3225
INS390LED-1200-X6-1	648	3540
INS390LED-1200-X6-3	612	4825

* - power consumption during emergency operation in ZB mode is 60% of the nominal value.

DALI driver:

Optional version equipped with DALI-2 driver. **DA**

Below -30°C, performance may be reduced.

The DA version is equipped with an integrated power supply with a DALI-2 interface, which allows monitoring the operation of luminaires and controlling lighting using data directly from motion sensors or the building management system (BIM). A properly configured lighting control system can significantly reduce electricity costs and improve user ergonomics. The DA version luminaire is not equipped with an emergency power module.

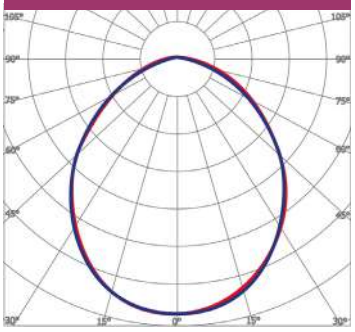
Extending the functionality of the power supply with the DALI-2 interface with D4i (DALI for internet of things), used to collect and store data on the functioning of the lighting fixture, and defining an improved resource management and efficiency monitoring system.

CLO

An additional function that allows you to maintain a constant luminous flux (Constant Lumen Output) throughout the entire life of the luminaire. Thanks to the constant light flux, the luminaire not only ensures stable lighting, but also saves energy and extends the life of the LED diodes.

PHOTOMETRY

STANDARD



CONFIGURATIONS

INS390LED -	approximate length	-	LED modules type	-	LED modules quantity	-	power supply	-	wiring	-	cable inlets - quantity	cable inlets - material	cable inlets - size	-	housing material	-	diffuser material	-	emergency versions	-	optional version	-	optional function	-	mountings
	0600		X4		1		3 4 E		40		20	P	20		NIRO		GL		A3		DA		CLO		SF
	1200		X6		3		3 5 E		50		10	M	25				PC		ZB						RC
									60		30														CLIP1
											40														CLIP2
																									TR

group
industrial
light fittings

type
type 390

source of light
LED modules

approximate length
~ 600mm, 1200mm

LED modules type

LED modules quantity

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

wiring

40 - 4-pole terminal	→ 4	*available for standard or ZB version*
50 - 5-pole terminal	→ 5	*available for DA or A3 version*
60 - 6-pole terminal	→ 6	*available for DA+A3 version*

cable inlets - quantity

10 - one cable inlet on the side of the housing	→ 1 0	
20 - two cable inlets on the side of the housing	→ 2 0	*standard*
30 - three cable inlets on the side of the housing	→ 3 0	
40 - four cable inlets on the side of the housing	→ 4 0	

cable in lets - material
P - plastic cable gland
M - metal cable gland

cable inlets - size
20 - Ø20 (cable range Ø6-13 mm)
25 - Ø25 (cable range Ø10-17 mm)

housing material
NIRO - stainless steel

diffuser material
GL - tempered glass with dust film (MACal® 798-02),
PC - polycarbonate (Exolon DX Bright)

emergency versions
A3 - version with 3h emergency power module available only with 34E power supply (220-240V, 50-60Hz). Works in the temperature above 0ºC.

optional version
DA - version with an integrated power supply unit with DALI-2 interface
ZB - version adapted to work with central battery. Available separately for White and Yellow mode.

optional function
CLO - version with the Constant Lumen Output function, which adjusts the power supply during the life of the LED fixture, ensuring a constant luminous flux throughout the entire period of use.

mountings
RC - as a part of the coffer suspended ceiling
SF - on the ceiling surface
CLIP1 - mounted to clip-in ceiling (luminaire dimensions: 600x600mm & 1200x300mm)
CLIP2 - mounted to clip-in ceiling (luminaire dimensions: 625x625mm & 1250x312mm)
TR - using threaded rods

DOWNLOADS

LDT

PZH

www.atmlighting.pl
office@atmlighting.pl