



INSTALLATION AND MAINTENANCE MANUAL FOR
LIGHT FITTING

INS400LED



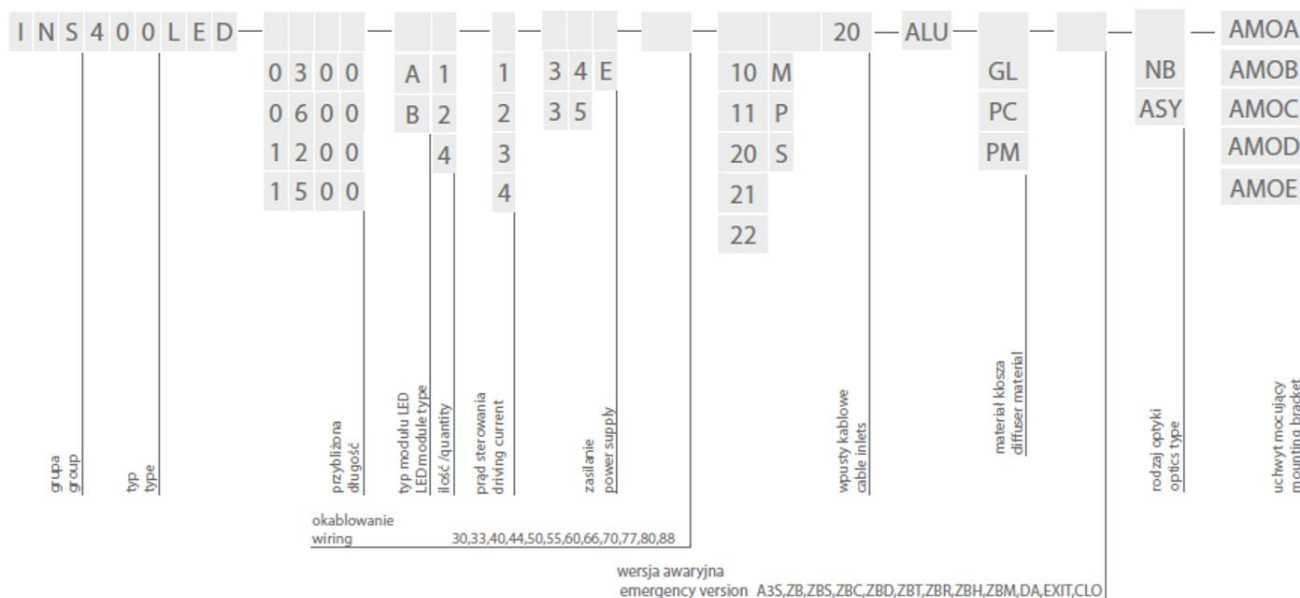
Carefully read the instructions before
mounting the light fitting.

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	3
2. TECHNICAL INFORMATION	3
3. PHOTOMETRICAL DATA.....	4
4. CONSTRUCTION DESCRIPTION.....	5
5. PRELIMINARIES.....	5
6. LIGHT FITTING MOUNTING	5
7. ELECTRICAL CONNECTION	6
8. CONDITIONS OF SAFETY USE:.....	6
9. LIGHT FITTING MAINTENANCE AND SERVICING	7
10. PARTS EXCHANGE.....	7
11. REPAIRING	7
12. LAMPS EXCHANGE	8
13. TRANSPORT AND CONDITIONS OF STORAGE.....	8
14. DISPOSAL OF WASTE EQUIPMENT.....	8
15. WARRANTY.....	8

1. GENERAL INFORMATION

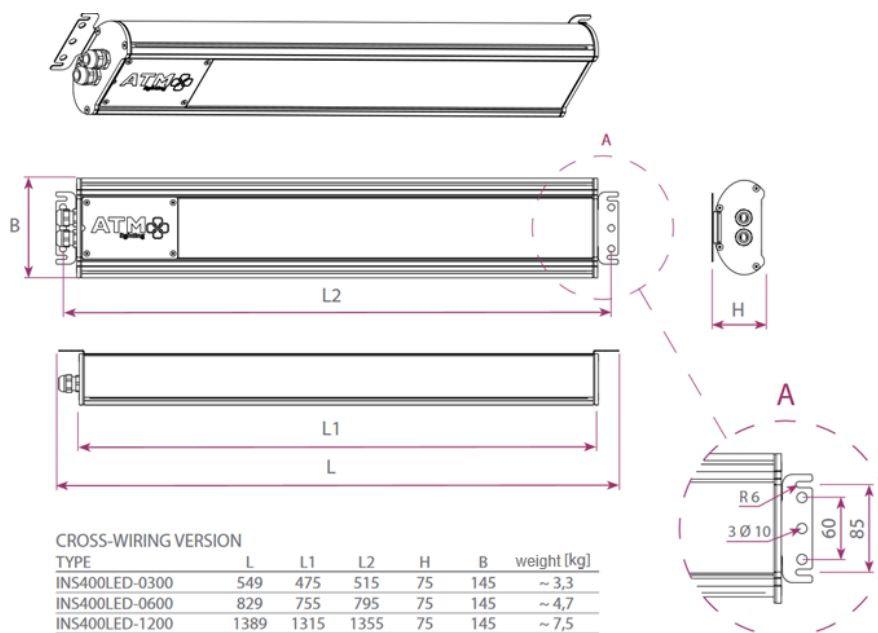
Waterproof and dustproof luminaire - industrial lighting fixture with LED modules. Housing made of aluminum, diffuser made of glass or polycarbonate, aluminum end caps. Three versions of optics matched to the client's project. Optional emergency version, for operation with a central battery, with the DALI control system or with a motion sensor.



Risk group of used LED RG modules = 1.

2. TECHNICAL INFORMATION

Type	Power	Electrical unit	IP	Protection class	Power factor
INS400LED-0300-A1-1	5,8 W	230V 0/50-60Hz	66/67	I	≥0,95
INS400LED-0300-A1-2	7,4 W				
INS400LED-0300-A1-3	8,9 W				
INS400LED-0300-A1-4	10,0 W				
INS400LED-0600-B2-1	16,2 W				
INS400LED-0600-B2-2	22,7 W				
INS400LED-0600-B2-3	27,8 W				
INS400LED-0600-B2-4	31,6 W				
INS400LED-1200-B4-1	29,5 W				
INS400LED-1200-B4-2	42,5 W				
INS400LED-1200-B4-3	52,7 W				
INS400LED-1200-B4-4	61,7 W				
INS400LED-1500-B4A2-1	36,1 W				
INS400LED-1500-B4A2-2	53,7 W				
INS400LED-1500-B4A2-3	65,0 W				
INS400LED-1500-B4A2-4	77,5 W				



CROSS-WIRING VERSION

TYPE	L	L1	L2	H	B	weight [kg]
INS400LED-0300	549	475	515	75	145	~ 3,3
INS400LED-0600	829	755	795	75	145	~ 4,7
INS400LED-1200	1389	1315	1355	75	145	~ 7,5
INS400LED-1500	1669	1595	1635	75	145	~ 9,2

EMERGENCY A3S CROSS-WIRING VERSION

TYPE	L	L1	L2	H	B	weight [kg]
INS400LED-0300...-A3S	599	525	565	75	145	~ 3,8
INS400LED-0600...-A3S	879	805	845	75	145	~ 5,2
INS400LED-1200...-A3S	1439	1365	1405	75	145	~ 8,0
INS400LED-1500...-A3S	1719	1645	1685	75	145	~ 9,7

3. PHOTOMETRICAL DATA

Type	Luminous flux	Efficiency	Colour temperature	CRI	Lifetime
INS400LED-0300-A1-1	616 lm	106 lm/W	4000K 6500K	>80	>70000 h
INS400LED-0300-A1-2	898 lm	121 lm/W			
INS400LED-0300-A1-3	1091 lm	123 lm/W			
INS400LED-0300-A1-4	1286 lm	129 lm/W			
INS400LED-0600-B2-1	2289 lm	141 lm/W			
INS400LED-0600-B2-2	3359 lm	148 lm/W			
INS400LED-0600-B2-3	4104 lm	148 lm/W			
INS400LED-0600-B2-4	4837 lm	153 lm/W			
INS400LED-1200-B4-1	4624 lm	157 lm/W			
INS400LED-1200-B4-2	6778 lm	159 lm/W			
INS400LED-1200-B4-3	8273 lm	157 lm/W			
INS400LED-1200-B4-4	9751 lm	158 lm/W			
INS400LED-1500-B4A2-1	5793 lm	160 lm/W			
INS400LED-1500-B4A2-2	8604 lm	160 lm/W			
INS400LED-1500-B4A2-3	10353 lm	159 lm/W			
INS400LED-1500-B4A2-4	12202 lm	157 lm/W			

LED module lifetime: L₈₀B₁₀

4. CONSTRUCTION DESCRIPTION

Light fittings are built according to common electrical engineering rules. The product meets the essential requirements of the Directives and the harmonized standards listed in the EU Declaration of Conformity.

Housing, end-caps and mounting plate is made of aluminum, diffuser made of glass or polycarbonate, silicone gasket.

5. PRELIMINARIES

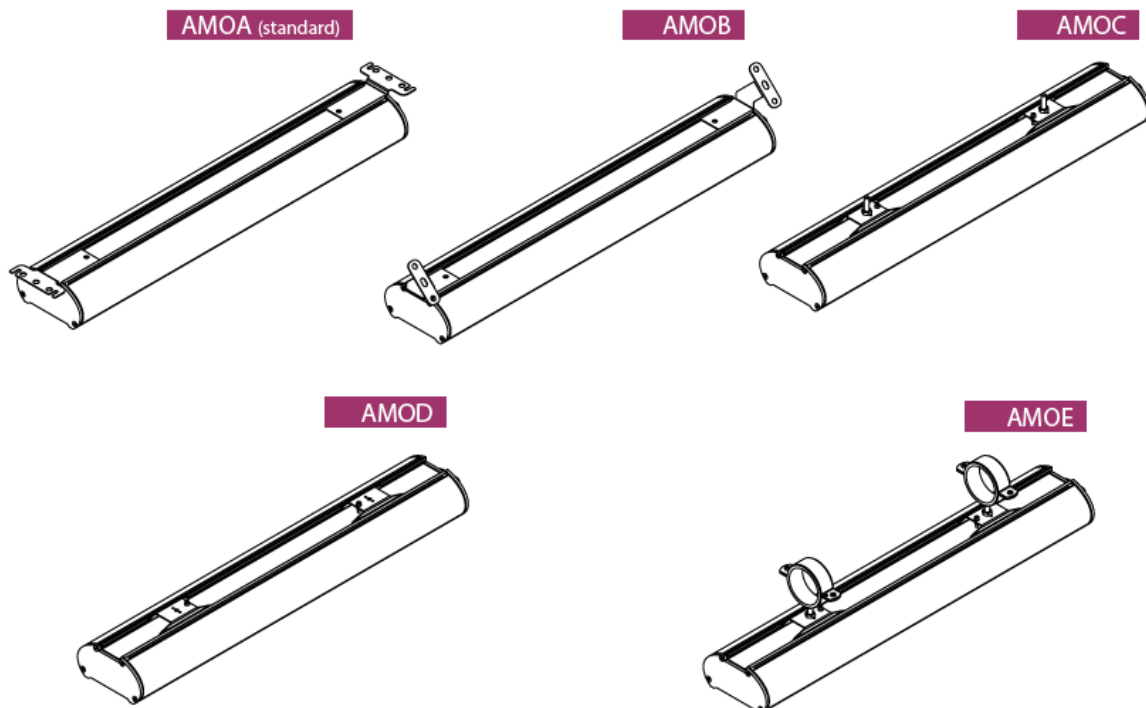
CONDITIONS OF SAFETY RULES

- Carefully read all the information included in the manual before mounting the light fitting
- General safety must be applied.
- Failure to comply with rules of the installation and use can lead to personal injury or property losses. Company ATM Lighting sp. z o.o. takes no responsibility in such cases.
- Failure to comply with rules included in manual results with void of the manufacturer warranty.

6. LIGHT FITTING MOUNTING

Light fitting is mounted with use of brackets, designed for installation on a ceiling or on a wall.

Below are the possible versions of the brackets:

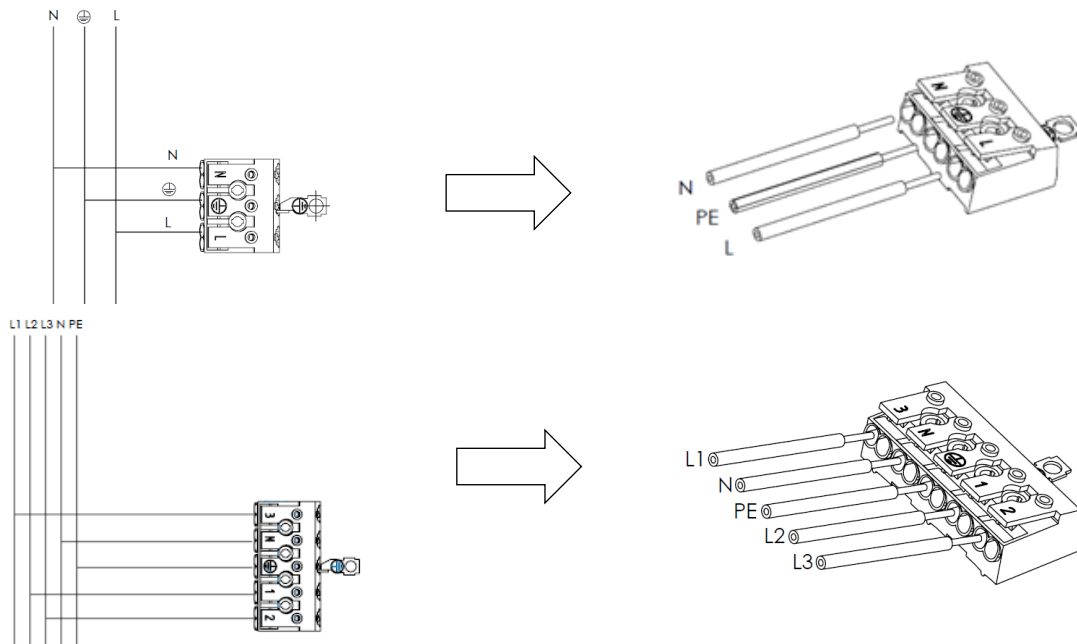


7. ELECTRICAL CONNECTION

To connect power supply:

- enter the power cable to the housing through the cable entry (gland),
- carefully remove isolation from the cables cores (8-10mm), and put it into the connector according to marking inside the light fitting,
- precisely tighten power cable in the gland with two wrench,
- check the effectiveness of grounding.

Power connection:



Remarks:

- If light fitting is equipped with rubbered cable entries to enter power cable to housing carefully make a hole in the grommet. Diameter of the hole must ensure tight fit to membrane of the grommet
- Use one wrench to tighten the sealing nut, while using the second wrench to block gland body against rotation, otherwise damage of the sealing can be caused and therefore sealing level will be decreased.

8. CONDITIONS OF SAFETY USE:

- Every light fitting has to have rating plates with rating data on it. Each light fitting must have this „Installation and maintenance manual” , which must be kept by user until the end of exploitation.
- Light fittings are designed for fixed installations only.
- Using light fitting outside the designated operating temperature range is unacceptable and will decrease a lifetime of light fitting and/or damage it. It will also cause a loss of warranty.
- Each light fitting must have a warning sign: „do not open under voltage” on it.
- Admission cables must have 3-wires (with PE wire) and diameter 8-13mm.
- Use power wires with cross section 0,5-1,8mm².
- Maximum cross current I=16A.

- The diffuser is made of polycarbonate, so it mustn't be exposed on chemical substances which may destroy it, especially: oil, acetone, chloride, ethyl, ether. In case of doubts with substances are in work place of light fitting, which can damage the product, the action of fixing should be taken.

9. LIGHT FITTING MAINTENANCE AND SERVICING

REMARK: during the servicing and maintenance touching of LED are prohibited, because it will decrease the lifetime of light fitting and cause the loss of manufacturer's warranty.

INSPECTION: at least once a month. Inspection is made without opening the light fitting. User must check admission cables condition (insulation damage, cracks, burns etc.). Cables must not have any acute bends. Outside parts of the light fitting must be checked. No cracks or corrosion signs may occur. Bolts used to mount light fitting should be properly tightened, washers mustn't be cracked. Cleanliness of outer surfaces and light fittings surroundings must be checked. Light fittings may not be soiled by paint or grease. Do not allow for dust (dirt) deposition on the light fitting. The readability of rating and warning plates must be checked. Abnormalities found must be fixed.

SERVICE AND MAINTENANCE: at least once a year. Service and maintenance must be made with power supply turned off. User must make inspection steps first. After opening: metal parts painting, condition of inner wiring and its mounting, insulating materials, cable glands gaskets, terminals. Abnormalities found must be fixed. Rating and warning plates must be cleaned. Surfaces of insulating materials and covers must be clean.

VERIFICATION OF TECHNICAL CONDITION: at least once for 2 years. Power supply must be switched off. Light fitting must be uninstalled. Besides all the examination from inspection, service and maintenance paragraphs electrical examination from the inspection, service and maintenance paragraphs electrical examination must be also made: light fitting current consumption, insulation examination, protective earthing condition. Special attention must be paid to insulating parts condition. No crack or burns may occur.

CLEANING: do not allow for dust (dirt) deposition on the light fitting. Cleaning must be proceeded without use of chemical. Cleaning must be proceeded with use of compressed air and soft cleaning cloth or soft brush. If necessary use water and/or neutral detergent, however without any chemicals, which can damage any part of the light fitting.

10. PARTS EXCHANGE

All of parts considered as a spare parts must be ordered at manufacturer of light fitting.

11. REPAIRING

All repairs (excluding lamps exchange) may be made only by manufacturer or authorized repair workshops.

12. LAMPS EXCHANGE

Can be performed only by personnel appropriately trained and authorized to the service of the light fitting.

13. TRANSPORT AND CONDITIONS OF STORAGE

During transportation light fittings shouldn't be exposed to precipitation or mechanical shock.

Light fittings may be storage only in sheltered warehouses, within +5°C to +35°C temperature range, and relative humidity lower than 75%. No corrosion causing vapors or gases should be present.

14. DISPOSAL OF WASTE EQUIPMENT

User must obey relevant rules and regulations about disposal of wasted equipment valid in their country.

15. WARRANTY

- It is forbidden to use damaged or malfunctioned light fitting.
- It is required to disconnect power supply from the light fitting before any maintenance work.
- All specific information can be found in document „General terms and conditions warranty ATM Lighting sp. z o.o.” available at the website www.atmlighting.pl/en/

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