



INSTALLATION AND MAINTENANCE MANUAL FOR  
LUMINAIRE

# INS230



Carefully read the instructions before  
mounting the luminaire.

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## 1. GENERAL INFORMATION

Dustproof and waterproof luminaire for installation indoors and outdoors.

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grupa group																	
typ type																	
ilość lamp lamps quantity																	
moc lamp lamps watt.																	
na pięcie za silania / voltage																	
częstotliwość / frequency																	
typ statecznika / ballast type																	
okablowanie cross wiring																	
wpusty kablówce cable entries																	
materiał obudowy housing material																	
materiał klosza / diffuser material																	
odbłyśnik aluminiowy aluminium reflector																	

## 2. TECHNICAL INFORMATION

Type	Lamp-holder	Lamp type	Power	Electrical unit	IP	Protection class	Power factor	Ambient temp.
INS230-114-...	G5	T5	1x14W	230V 0/50/60Hz	66/67	I	≥0,95	-25 do +50°C
INS230-214-...			2x14W					
INS230-118-...	G13	T8	1x18W					
INS230-218-...			2x18W					
INS230-124-...	G5	T5	1x24W					
INS230-224-...			2x24W					
INS230-128-...			1x28W					
INS230-228-...			2x28W					
INS230-135-...			1x35W					
INS230-235-...			2x35W					
INS230-136-...			G13					
INS230-236-...	2x36W							
INS230-149-...	G5	T5	1x49W					
INS230-249-...			2x49W					
INS230-154-...			1x54W					
INS230-254-...			2x54W					
INS230-158-...	G13	T8	1x58W					
INS230-258-...			2x58W					
INS230-180-...	G5	T5	1x80W					
INS230-280-...			2x80W					



Type	L	L1	B	H
INS230 – 18/14/24	673	450	168	109
INS230 – 36/28/54	1283	660		
INS230 – 58/35/49/80	1583	900		

### 3. CONSTRUCTION DESCRIPTION

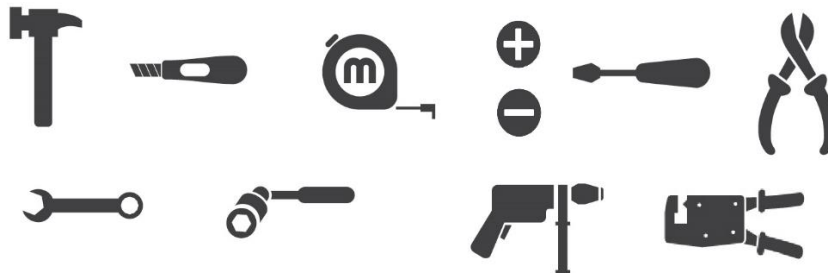
Housing and diffuser are made of UV stabilized polycarbonate. Mounting tray is made of powder painted galvanized steel. Clamps are made of stainless steel. Reflector is made of polished aluminum type ALANOD MIRO 4.

### 4. PRELIMINARIES

#### CONDITIONS OF SAFETY RULES

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

#### NECESSARY TOOLS



### 5. LUMINAIRE MOUNTING

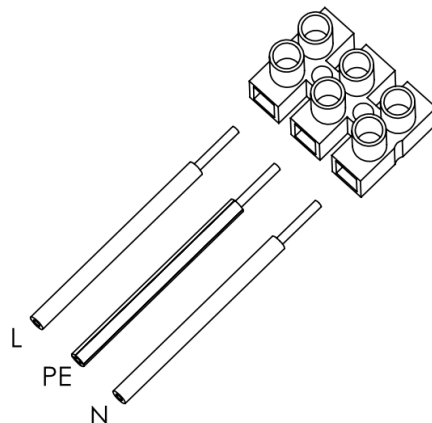
Luminaire is mounted with use of two brackets. It is designed for direct installation on a ceiling or on a wall. Spacing and size of the mounting holes are in point 2.

### 6. ELECTRICAL CONNECTION

To connect power supply:

- enter the power cable to the housing through the cable entry (gland),
- carefully unisolate the wires (8-10mm), and put them into the connector according to a label inside the luminaire,
- precisely tighten power cable in the gland with two wrench,
- check the effectiveness of grounding.

Power connection:



Remarks:

- 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.

## 7. CONDITIONS OF SAFETY USE

- Every luminaire must have rating plates with rating data on it. Each luminaire is equipped with this „Installation and maintenance manual”, which must be kept by user until the end of exploitation.
- Luminaires are designed for fixed installations only.
- Using luminaire outside the designated operating temperature range is unacceptable and will decrease a lifetime of luminaire and/or damage it. It will also cause a loss of warranty.
- Each luminaire 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 0,5-1,8mm<sup>2</sup>.
- Maximum cross current I=16A.
- The diffuser and housing are made of polycarbonate, so they 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 luminaire, which can damage the product, the action of fixing should be taken.

## 8. LUMINAIRE MAINTENANCE AND SERVICING

**INSPECTION:** at least once a month. Inspection is made without opening the luminaire. User must check admission cables condition (insulation damage, cracks, burns etc.). Cables must not have any acute bends. Outside parts of the luminaire must be checked. No cracks or corrosion signs may occur. Bolts used to mount luminaire should be properly tightened, washers mustn't be cracked. Cleanliness of outer surfaces and luminaires surroundings must be checked. Luminaires may not be soiled by paint or grease. Do not allow for dust (dirt) deposition on the luminaire. 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. Lampholder and the reliability of light source mounted in it must be checked. 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. Luminaire 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: luminaire 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 luminaire. 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 luminaire.

## 9. PARTS EXCHANGE

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

## 10. REPAIRING

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

## 11. LAMPS EXCHANGE

Lamps exchange may be made only by personnel authorized to maintain explosion-proof equipment.

## 12. TRANSPORT AND CONDITIONS OF STORAGE

During transport luminaires shouldn't be exposed to precipitation or mechanical shock.

Luminaires 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.

## 13. DISPOSAL OF WASTE EQUIPMENT

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

## 14. WARRANTY

- It is forbidden to use damaged or malfunctioned luminaire.
- It is required to disconnect power supply from the luminaire 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/](http://www.atmlighting.pl/en/)

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