



IIBG Ex nA IIC T5 Gc
IIBD Ex t IIIC T90°C Dc

ANTARIO ATEX

Installation Manual

ENGLISH



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1. Product Description



- Led Lighting Equipment suitable for industrial machine tools.
- Anodized aluminum structure.
- Tempered glass front protection and anti-dazzling internal prismatic diffuser.
- High power Led light source.
- White homogeneous light.
- Exceptionally powerful light flow.
- Plug-in to 24VDC
- Four lengths available, built-in version
- Use only with class 2 power supply
- Suitable for wet location
- For cabinet and Surface Mounted
- CAUTION: to reduce the risk of fire, do not install in a compartment smaller than 30cm by 30cm by length of product.
- Cabinet use also includes under cabinet and surface mounting use, as applicable.
- CAUTION” - “To reduce the risk of fire, do not install in a compartment smaller than 30 cm by 30 cm by length of product

2. Safety instruction

Each lighting device in the **ANTARIO** series was designed and manufactured based on state-of-the-art techniques.

It is made of well-selected, high-quality materials. It is carefully tested throughout the production process, from the raw material through to packaging, following a detailed production schedule so as to guarantee that the product is safe and reliable

Material damages as well as body injuries may nevertheless still occur while using it.



- This manual is part of the equipment and must always be kept with it.
- Please make sure that ALL instructions/information in this manual are carefully read through.
- Strict compliance with the instructions provided in this manual and on the lighting equipment is required for its correct use
- Installation and use of the product is recommended only provided it is in perfect conditions, and the user is well-

acquainted with all safety instructions

- CCEA, the manufacturer, waives any responsibility in case of product tampering or improper use.

2.1 Proper use of product

This lighting equipment is fit for being installed inside machine tools, even in a wet environment.

2.2 Product Safety

2.2.1 Electrical Risks

Improper or incorrect use of the appliance can cause personal injury or material damage.

- All electrical connection procedures must be carried out by a licensed electrician.
- Switch off power supply before any installation, maintenance or reparation procedures.
- Ensure to connect to a 24VDC power supply unit. Please respect polarity of electric conductors.
- Please ensure that the power supply rated tension and frequency meets the requirements shown on the product label.
- Maintenance and reparations must only be carried out by qualified electricians.

2.2.2 Installation safety

- Handle the lamp with care and avoid having it drop or being hit even it is still packed, which might cause body injuries, as well as material damages.
- The equipment must be correctly fastened using the proper screws according to the application, place and surface where the product is being mounted.
- Ensure that the fastenings are regularly checked.

2.2.3 Danger of dazzling glare due to a white light source

Avoid staring directly at the light source, as it may cause a temporary reduction of vision. Irritation, aches, damages or accidents may as well occur.

- Avoid staring directly at the light source.
- The device must be adjusted so as to avoid having the light flow directed towards the eyes.

2.2.4 Damage caused by presence of laser beams

Use of the ANTARIO Led lighting equipment **is not** allowed when a high power laser – see: a laser cutting system - is operating, since it may damage the Led source

2.2.5 Damage caused by high temperatures

Installing and using the equipment in all the environments where the

existing temperature remarkably exceeds the foreseen operating temperature will considerably reduce Led lifetime, while damaging as well the built-in electronic components.

- **Do not** use this Device into environments where the operating temperature of the device is exceeded.
- **Operating temperature -20/+45°C**
- Avoid direct solar radiation.

2.2.6 Danger due to repairs

Having the product disassembled or repaired without any appropriate technical /electrical knowledge may cause damages to persons and objects.

- **DO not** try to repair or disassemble the equipment. Please apply to qualified technicians for any issues.
- Any product tampering or modifications not having been approved by the manufacturer will null and void the warranty .

2.2.7 Installation in ATEX environments

ATEX ANTARIO lighting systems comply with the requirements laid down for Group II, categories 3G and 3D of Directive 2014/34/UE. They are therefore designed to function in conformity with the operational parameters established by the manufacturer and to ensure a normal level of protection.

The equipment in this category is intended for use in areas in which explosive atmospheres caused by gases, vapours, mists, or air/dust mixtures are unlikely to occur or, if they do occur, are likely to do so only infrequently and for a short period only.

The equipment in this category ensures the requisite level of protection during normal operation.

The equipment in this category complies with the supplementary requirements referred to in Annex II, 2. 3 of the ATEX Directive.

ANTARIO EX series lighting appliances may be installed in the following ATEX areas:



II3G Ex nA IIC T5 Gc



II3D Ex t IIIC T90°C Dc

2.3 Damage risk levels



DANGER

Dangers where noncompliance may **immediately** severe injuries and eventually lead to death.



WARNING

Dangers where failure to satisfy requirements **may** lead to severe injuries and even to death.



ATTENZION

Dangers where failure to satisfy requirements may lead to injuries

NOTICE

Dangers where failure to satisfy requirements **may** cause damages to objects.

3. Available versions

Please refer to the table hereunder listing all the lighting equipments, for you to identify the version you need and its main features, for you to have the lighting equipment correctly and efficiently installed and used.

NOTE: The product code is found on the brand name label stuck on the product's backside.

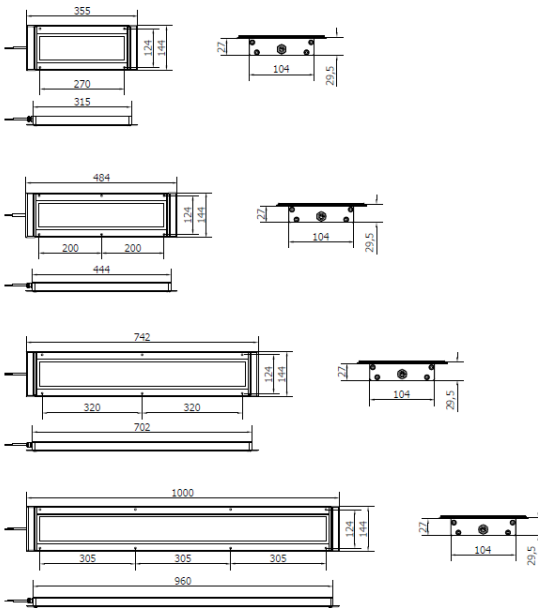
- Find out the product code printed on the brand name label and see if you find it on the table hereunder;
- Compare the codes and see if you can identify the same model on the table hereunder;
- The code printed on the brand name label shows device's week and year of production.

Do not discard the product labeling which may be requested in case of complaint

Version with CABLE							
Model	Length	Optics		Power	Power Usage	E Connection	Weight
AN0231S01	355 mm	Diffuser	110°	26,5 W	24 Vdc	CABLE 3 m	~ 1,60 kg
AN0331S01	484 mm	Diffuser	110°	40 W	24 Vdc	CABLE 3 m	~ 2,30 kg
AN0531S01	742 mm	Diffuser	110°	66,5 W	24 Vdc	CABLE 3 m	~ 3,50 kg
AN0731S01	1000 mm	Diffuser	110°	93 W	24 Vdc	CABLE 3 m	~ 4,50 kg

4. Guide to installation

4.1 Product sizes



Code	N° Holes Ø 5.5 mm	Built-in window frame
AN0231S01	4	317x106mm
AN0331S01	6	446x106mm
AN0531S01	6	704x106mm
AN0731S01	8	962x106mm

The tolerances depend on the working procedure of the raw materials.
 We recommend the installation of the lamp with passing screws.

4.2 Installation



ATTENZION

If the lamp falls, it could cause personal or material damage.

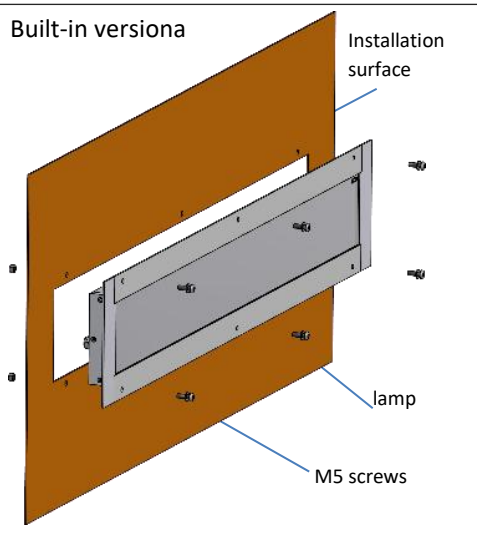


WARNING

Always switch off the electricity before proceeding with installation.

- Mark out the positions of the fastening holes on the installation surface. See the sizes table on page 8 for the drilling centre lines.
- The plate where the lamp will be mounted has to be at least 1,5 mm thick.
- Position the appropriately sized window frame so the body of the lamp can pass through (for built-in version)
- Rest the lamp on the structure and then fasten lining up the holes.
- Using proper M5 screws according to the application, place and surface where the product is mounted.

Built-in versiona



NOTICE

Regularly check the fastening systems of the lamp.

5. Electrical connection



WARNING

Always switch off the electricity before proceeding with the electrical wiring of the lamp.

24VDC connection with cable

NOTICE

Any material damage caused by wiring errors will damage the lamp.

- The electrical connection must be carried out by qualified staff.
- Match the polarities of the conductors.
- Use power cables with sections of at least 0.50 mm²

N.B. The cable outlet is on the side of the lamp.

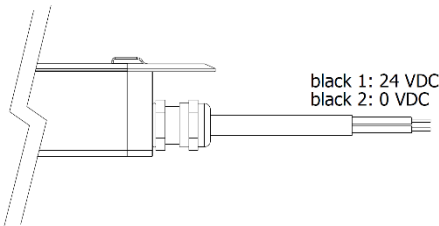
Cable type: 0,75mmq PVC

NOTICE

- Stay within the input voltage range for the lamp so you don't damage the LED drivers:

**Range of permitted voltage values
22 ÷ 36VDC**

- Use a constant voltage power supply suitable for LEDs



Protection: reversed polarity

6. Switching on and off

- The lamp is not fitted with an independent system to switch it on and off.
- The lamp switches on when power is supplied and switches off when the power cuts off.

7. Troubleshooting

If the lamp does not switch on:

- Check whether the lighting system is connected to the power supply.
- Check that the connector pins are wired correctly.

If the lamp is faulty, please contact the CCEA technical support service.

CCEA technical support
Tel. +39 0444 572083
tecnico@ccealights.com
www.ccealights.com



WARNING

Do not attempt to dismantle or open the lamp, otherwise you might run the risk of an electric shock or jeopardise the lamp's airtight seal. The warranty will be void.



8. Replacing the light source

The exceptional duration of the LED light source, which lasts over 50,000 hours, means that you do not need to replace the LED circuits during the lamp's lifetime. If you need to replace the LED light source for reasons not covered by the warranty, please contact C.C.E.A. or see your authorised dealer.

9. Product maintenance and cleaning



WARNING

Always switch off the electricity before proceeding with any maintenance.

The lamp does not require any specific maintenance work.

- Switch the lamp off and wait for all parts to cool down before cleaning it.
- Use a soft cloth and mild detergents so you don't scratch the surface.

10. Repairs

All material damages caused by liquid leakage may damage the lamp.

- In case the lamp is working in environments where lubricants or coolers are present, all cleaning operations should be carried out at the end of the working cycle.

NOTICE

Any material damage caused by faulty repairs will damage the lamp.

- Any repairs must be carried out by the manufacturer or by qualified staff.
- Do not open and/or dismantle the lamp.

All repair and spare parts' costs will be notified after the defects have been examined.

The warranty does not cover:

- Any transport, packaging or shipping costs;
- Any damages or deterioration caused by:
 - Installation and/or operation carried out following different ways;
 - Any unauthorized repairs or attempts to repair the product;
 - Equipment operation under environmental conditions other than those specified in the user manual;
 - Liquid leakages inside the lamp;
 - Failure to follow the safety precautions related to transport and to shipping the product back for repair (please make sure to have it shipped back in its original case).

Period of warranty

The warranty period covers 24 months, starting from delivery date. CCEA guarantees that the products have no manufacturing defects or malfunctioning.

11. Warranty

CCEA ensures that any control procedures or repairs – to be carried out exclusively at/by CCEA Technical service dept. or by any CCEA'S official dealer – are covered throughout the entire product's lifetime. In view of the above, take care to preserve the product label and case, to be submitted if any repair operations are needed.

12. Product disposal

All the electrical and electronic equipment (WEEE) have to be managed with a selective waste sorting and cannot be disposed of as municipal waste, as provided for in Directive 2012/19/Ue.

In view of the above this equipment, all its components, subsystems and the consumables which are an integral part of the product have to be conveyed to the local collection facilities for them to be disposed of in accordance with the current legislation.

Please apply to the council offices of your place of residence in order to know where the collection facilities are located.



13. Technical data





NOTE: Please refer to the data printed on the label stuck on the lamp.

Power supply	22-36VDC
Power watt	26,5-40 66,5-93W (see label)
IEC Class	III
Degree of protection	IP67
LED driver	IDS system
Light color	6500K
CRI	80

Operating temperature -20 + 45 °C

For any further information please refer to the table at page 7

14. Symbol Keys

	CE Conformity marking
IP67	Degree of protection IP67
	LED lamp technology
	Protection class III device
24VDC	24VDC power supply
	Do not open and/or dismantle the lamp

15. Declaration of Conformity

C.C.E.A. SRL, Via Piave, 2 - 36077 Altavilla Vicentina (VI) - VAT No and Tax Code 02374040240, declares under its sole responsibility that the ANTARIO series lighting system covered by this declaration complies with Directive 2006/95/EEC on low voltage, with Directive 89/336/EEC on electromagnetic compatibility and, in particular, with the following regulations:

- CEI EN 60598-1 Lighting equipment. Part 1: General requirements and tests.
- CEI EN 60598-2-4 Lighting equipment part 2: particular requirements – part 4 Portable general purpose luminaries.
- CEI EN 62471 Photobiological safety of lamps and lamp systems.
- CEI EN 62031 LED modules for general lighting - Safety specifications.
- CEI EN 62384 D.C. or A.C. electronic driver for LED modules - Performance requirements.

This is a standard product and as such it has been made by the manufacturer according to a certain set of parameters, which guarantees trials and destructive tests to ensure it is safe, functional and durable.

C.C.E.A. SRL accepts no liability from any tampering and/or improper use of the device.

Date:

Week of production:

Item code:

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