

SYRMA

ENGLISH

User Manual



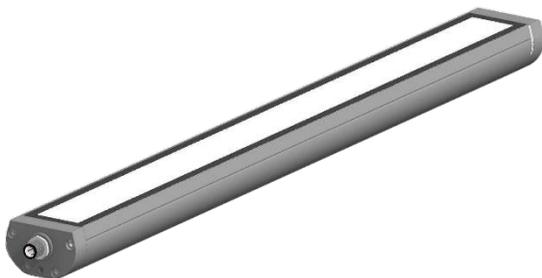
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1. General description of the product

- Lighting appliance for installation inside medium and large industrial machines.
- Anodized aluminium structure.
- Tempered glazed front glass.
- High luminous efficiency LED light source.
- Uniform white light.
- Resistant to shocks, chips and vibrations.
- IP67 index of protection
- 24VDC direct power supply.
- Available in four lengths

2. Safety Instructions

3. Each lighting appliance in the **SYRMA** series is designed and manufactured using state-of-the-art technology. They are made with select high-quality materials. They are carefully checked during every production phase, right through to packaging, using a technical manufacturing table which guarantees reliability and safety. Nevertheless, material damage or personal injury can occur during use.



- This manual is an integral part of the device. It should be kept close to the appliance.
- Please read all the instructions and information inside.
- Follow the warnings in the instructions and on the appliance.
- Only use the appliance if it is in perfect technical condition, taking into account the hazards and safety warnings.
- The manufacturer accepts no liability from any tampering and/or improper use of the device.

2.1 Proper use

This lighting appliance is designed for installation inside machines also in wet environments.

2.2 Product safety

Electrical hazards

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

- It must be connected by a qualified electrician.
- Turn off the electricity before carrying out any installation, maintenance or repair work.
- Only connect to a 24VDC supply. Match the polarities of the electrical conductors.
- Make sure that the power supply is in line with the voltage indicated on the label.
- Maintenance and repair work must only be carried out by qualified staff.

Risk of explosion

Risk of explosion might occur if this product is installed and use into applications with high risk of explosion. It might cause heavy individual injuries.

- **Do not** install and use this product where risk of explosion may occur.
-

Safe assembly

- Do not drop this lighting appliance, even if still in its packaging, and do not hit it aggressively. This may cause personal injury and/or material damage.
- Use only original manufacturer's accessories for fixing.
- Set up the Fixing accessories properly.
- Use the screws supplied with the appliance to fasten the lamp.
- Check that the lamp is fastened to the structure on a regular basis

Hazardous glare caused by bright light sources

Staring directly at the light source can temporarily reduce your vision. It can cause irritation, discomfort, damage or accidents.

- Do not stare directly at the light source.
- Install the appliance so that the flow of light is not directly aimed at people's faces.

Danger caused by inappropriate spare parts.

Inappropriate spare parts may cause personal injuries and damages to the objects.

- **Do not** use spare parts if not approved by the manufacturer.

Hazardous laser beams

The SYRMA series lighting appliance must **not** be used around high power lasers, such as cutting lasers, because the laser beam can destroy the LED lights.

Hazardous high temperatures

If you install and use the appliance in environments which exceed the permitted operating temperature, it will drastically reduce the life of the LEDs and will break the electronic components inside.

- **Do not** use the appliance in environments which exceed the maximum temperature permitted.
- Avoid direct sunlight.

Hazardous repairs

If you dismantle or repair the product without appropriate knowledge of the appliance, it can cause damage to persons or property.

- Do not attempt to dismantle or repair the lamp. Contact qualified staff if you have any technical problems.
- Any unauthorised modifications or tampering with the product will void all warranty conditions.

2.3 Hazard levels



HAZARD

Hazards which, if ignored, **immediately** cause serious injury or even death.



WARNING

Hazards which, if ignored, **could** cause serious injury or even death.



ATTENTION

Hazards which, if ignored, could cause injury.

CAUTION

Hazards which, if ignored, could cause material damage.

4. Versions

The following table is provided so you can properly and optimally install and use this lighting appliance. You can therefore identify your chosen model and check its properties.

NOTE: the product code can be found on the plate on the lighting appliance.

- Find the code on the plate on the lighting appliance;
- Find and compare the model type from the table below;
- The barcode on the code label identifies the week and year of production of the appliance.

N.B. keep the lamp's labels so you can make a claim if necessary.

Model	Power supply	N° LED	Power	Current	Connection	Weight
version 24VDC						
SYRMA.1.50	24 Vdc	18	6,5 W	0,3 A	Connett M12 4P	0,60 Kg ~
SYRMA.2.50	24 Vdc	36	13 W	0,6 A	Connett M12 4P	1,85 Kg ~
SYRMA.3.50	24 Vdc	54	19,5 W	0,9 A	Connett M12 4P	1,10 Kg ~
SYRMA.5.50	24 Vdc	90	34 W	1,5 A	Connett M12 4P	1,90 Kg ~

TAB.1

5. Installation guide

4.1 Lamp sizes and accessories

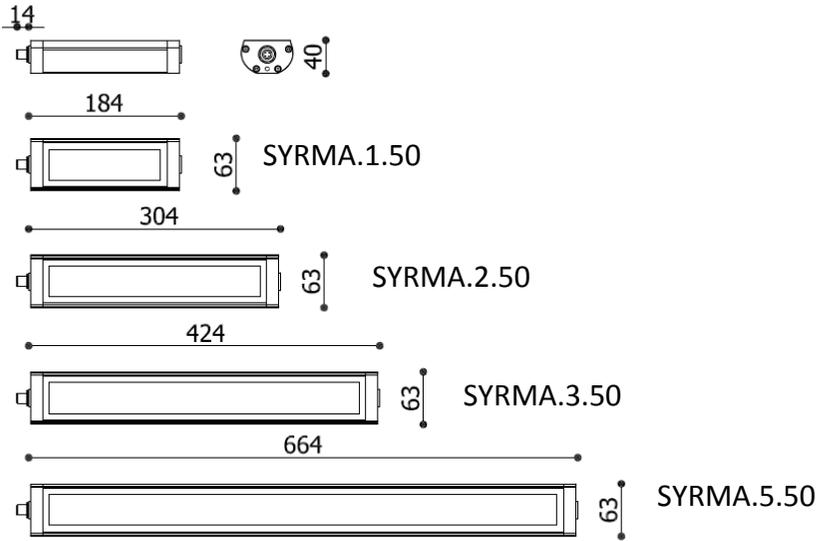


FIG.1

4.2 Fastening kit for SYRMA

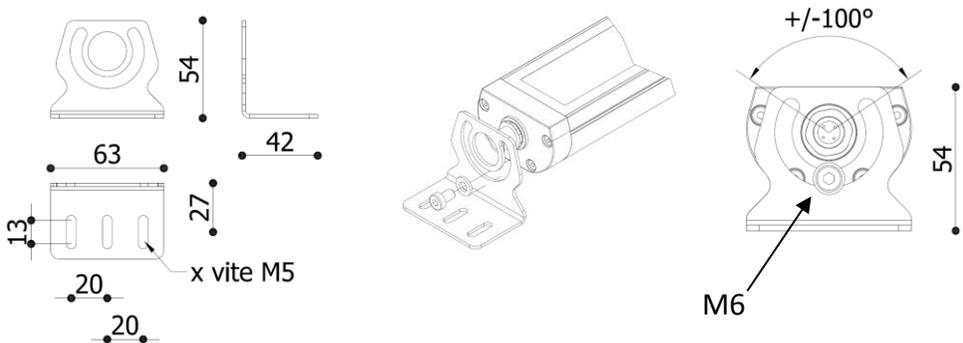


FIG.2

Cod. **SYRMA.FX01**

The item SYRMA.FX01 is made up of N.2 stainless steel chromed plates with M6x10 screws and washers.

4.3 Installation



ATTENTION

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

- Only use suitable fasteners to install the lamp.
- Mount the fastening parts correctly



WARNING

Always switch off the electricity before proceeding with installation.

Correct installation using SYRMA.FX01

- The item SYRMA.FX01 is made up of :
- N.2 stainless steel chromed plates with M6x10 screws and washers. Light beam adjustable +/- 100°.

Fastening

- Fix the two side plates to the lamp using the four M6 screws (FIG.3)

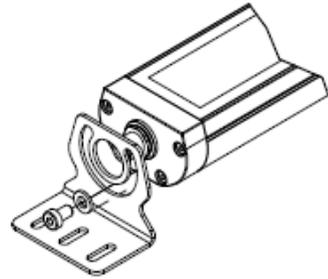


FIG.3

- Mark out the positions of the fastening holes on the installation surface. (FIG.4)

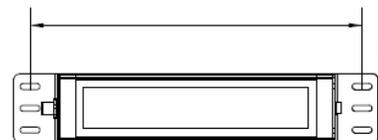
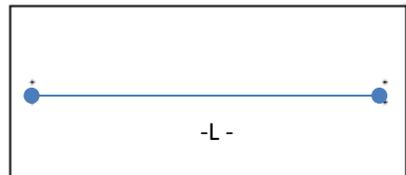


FIG.4

FIG.5

Model	- L -
SYRMA.1.50	234 mm
SYRMA.2.50	354 mm
SYRMA.3.50	474 mm
SYRMA.5.50	714 mm

TAB.2

- Fix the lamp to the structure, using M5 screws
The screws are not supplied with the lamp, the installer must choose the correct ones (FIG.7).

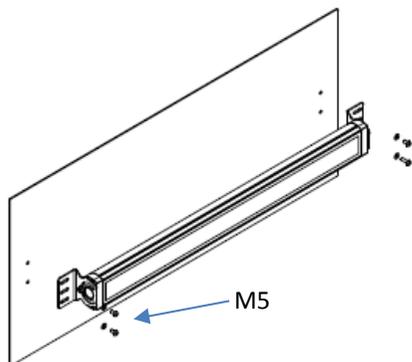


FIG.6

CAUTION

Damaging or broken lighting.

- Do not completely unscrew the M6 screw to avoid lamp fall.
- Fasteners and screws must be timely checked

- You can adjust the lamp inclination by unscrewing the 2 M6 screws of the base (see picture below). Once the inclination defined, tighten the screws (pict.7).

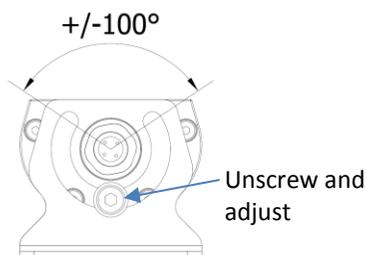


FIG.7

6. Power connection

CAUTION

- Liquid leakage into the lamp may cause material damages and lamp breakout
- Use of a female connector IP 67 protection is highly recommended, since it guarantees the same degree of protection of the lamp itself.
- Pay attention to correctly wire the M12 female.

5.1 24VDC connection with M12 female connector

CAUTION

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

- The electrical connection must be carried out by qualified staff.
- Polarities of the conductors have to be correctly matched
- Use power cables with sections of at least 0.50 mm²

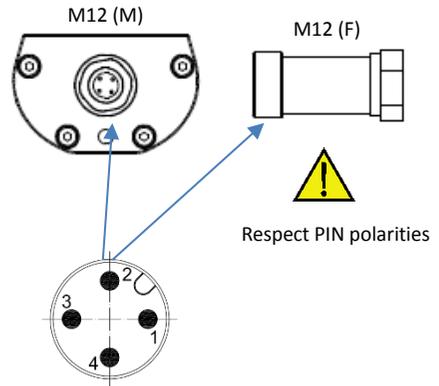


FIG.8

Lamp connector Male 4 Poles

PIN	connection
1	DC + (24VDC)
2	GND ⊕
3	DC – (0VDC)
4	Not connected

5.3 Option for connection

	CODE	DESCRIPTION
	M12V.F.3C1,5	M12 connector 4P (F) cable PUR 3x0,75 L1,5m
	M12V.F.3C3	M12 connector 4P (F) cable PUR 3x0,75 L3m
	M12V.F.3C5	M12 connector 4P (F) cable PUR 3x0,75 L5m
	M12V.F.3C10	M12 connector 4P (F) cable PUR 3x0,75 L10m
	N11810001040302	Connector M12 4P (F) female cable connector 6-8mm
	N11810001040302	Connector M12 4P (F) female cable 90° connector 6-8mm

TAB.3

7. 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.

8. 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

9. 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.

10. 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.

CAUTION

Leakage of liquid may cause damages to the lamp.

Cleaning operations must be carried out at the end of any Working cycle when the lamp is installed in a wet environment or in presence of lubricants.

11. Repairs

CAUTION

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.

12. Warranty

Warranty terms

CCEA guarantees to carry out any checks and repairs exclusively at the CCEA Technical Service or at an authorised official dealer throughout the product's lifetime. So please keep the lamp's labels and boxes for any potential repairs.

You will be notified of the costs of any repairs and spare parts once the faults have been analysed.

The warranty does not cover:

- Transport, packaging or shipping costs;
- Deterioration or damage caused by:
 - Installation and/or use other than the instructions indicated in the user manual;

- Repairs or attempted repairs by staff not authorised by CCEA Srl;

Use of the equipment under environmental conditions other than those specified in the user manual;

- Penetration of liquids inside the lamp;

- Failure to comply with the recommended precautions for transporting and shipping any returns for repair (please use the original packaging).

Warranty period

CCEA srl guarantees all products for a period of two years from the date of delivery, specifically against manufacturing and working defects.

13. Disposal

According to the provisions of Directive 2002/96/EC, electrical and electronic equipment must be recycled and may not be disposed of as urban waste. Therefore, when you decide to discard this piece of equipment and all its components, including the subsystems and consumables that form an integral part of the product, they must be taken to a local collection centre so they can be disposed of properly in accordance with existing legislation. Ask for information from your local municipal offices to find out where these centres are located.

14. Technical information

NOTE: the information shown on the lamp's label shall apply

Power supply	23-25.5VDC
Power	6,5-13- 19,5-34W (see label)
Classe IEC	III
Protection rating	IP67
Driver LED	IDS system
Light colour	6500K
CRI	80
Operating Temperature	-20 + 55 °C

For other values see the table on page 7

15. Symbols

	CE conformity marking
	Class III insulation appliance
IP67	IP67 protection
	LED lamp
	Disposal according to Directive 2002/96/EC

16. 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 SYRMA 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 "Lamp control gear - Part 2-13: Particular requirements for D.C. or A.C. supplied electronic control gear for LED modules.
- 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.

C . C . E . A . s r l

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