RobLight

FL 1010 F-1 RGB

User manual

RobLight

Introduction

The RobLight FL 1010 F-1 RGB light generator is designed for outdoor use with glass and PMMA fibre harness Ø9/Ø28 mm. It can be used in all installations set-ups, including closed compartments if limits for max ambient temperature are followed.

Product overview/unboxing

1 FL 1010 F-1 RGB
1 Remote control
1 User manual
1 Allen key

Installation instructions

Follow the installation instructions to ensure

- Safe operation
- Full functionality
- Stated expected lifetime
- Uninterrupted illumination

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Warning

This device has a built in high power phosphor converted blue led. The light source is grouped in Risk Group 2.

Risk group 2

CAUTION.
Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

Do not look into the light port when lit.

Beware of placing highly light absorbing material directly in front (Distance 0-1cm) of the port or a fibre. The extremely high intensity will increase the temperature in the material.

Using non RobLight harnesses in this light generator is at its own risk.

Ensure that the polyconnector is undamaged and clean before using the light generator in retrofit RobLight installations.

Beware that when the or a light generator is operated at max ambient temperature the surface temperature can exceed 75°C.

The light generator is only tested with RobLight standard polyconnector end.

Warranty label

The warranty label is not to be broken under ANY circumstances. If broken the warranty is terminated.

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Technical data

General

Light port	Ø9/Ø28 mm
Fibre type	PMMA or glass
Material	Aluminium, POM and other
Dimensions (L x H x W)	250 x 72 x 86
Weight (total)	1100 g
Safety	CE, RoHS

Environmental

Protection rating	IP 20
Thermal protection	Automatic resettable
Cooling	Natural convetion
Ambient temperature	-0˚ to 40˚C

Driver/electrical

Driver	LED driver constant current
Supply voltage (mains)	100-240V 50/60Hz
Driver expected lifetime	>50.000 hours (@TC = 65˚C)
Total power consumption	28W
Dimmer systems applicable	Remote control

Light source

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Applied LED	Nichia RGB
LED expected lifetime	>30.000 hours @Ta = 40˚C

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Installation instructions

a) Remove cap from the light port
b) Check that the end face of the polyconnector is clean and undamaged
c) Insert the poly connector fully in the light port
d) Tighten the screw onto the light port with an Allen key
e) Ensure all installation and ventilation requirements are met
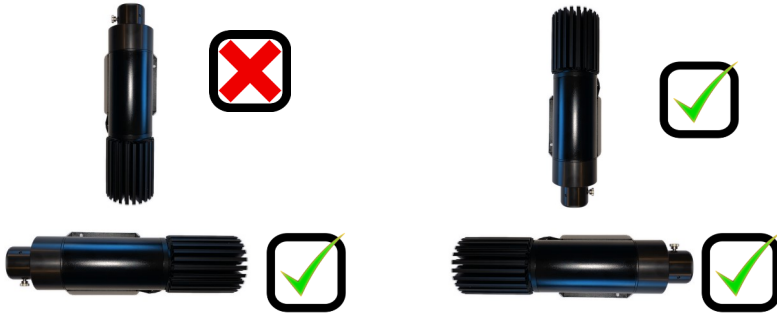f) Connect the supply cord to the mains

WARNING!
Remove cap before
turning on.
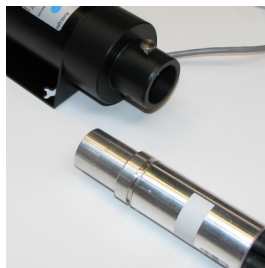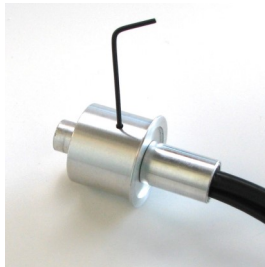
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Vertical mounting

This light generator should not be mounted with light port upwards. At high ambient temperature the operational lifetime of the internal components and harness will be reduced.

Mounting

Attach to surface using 2 screws (not supplied) in the baseplate holes.
Be aware that the total weight of this system is more than 1.1 kg + the downforce from the fibre harness.

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Closed compartments

MAX AMBIENT TEMPERATURE 40°C.

Recommendations: (should always be tested in a mock up)
Secure enough space to allow natural heat transmission through surfaces.
Surfaces should not be insulated.
Cooling air for the polyconnector can not be obstructed in any way, as it is essential to avoid damage to the harness.
General minimum distance from the light generator to any enclosing surface 10 cm (excluded mounting surface).
Beware of inlet and outlet ventilation holes opposite each other as shown on the drawing.
Keep free from dust and polluted air.
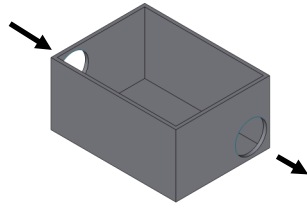
## Installing adjacent light generators

Recommendation:

Minimum 10cm distance between adjacent light generators to ensure enough free cooling air.
If multiple rows, use offset to avoid vertical rows. Minimal free distance between rows 20 cm.
Max temperature has to be observed for all light generators measured at air inlet for each light generator.

MAX AMBIENT TEMPERATURE 40°C.

10 cm   10 cm   10 cm
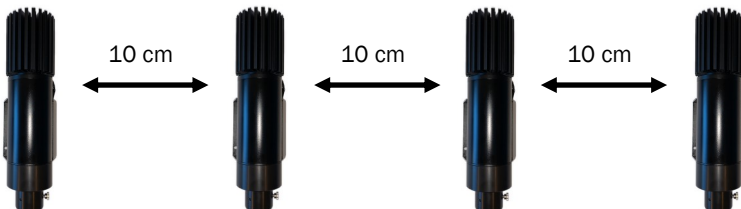
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Touch wheel RF remote controller

Safety information.

Read all instructions carefully before you begin this installtion.

When installing battery, pay attention to the battery positive and negative polarity. A long time without the remote control, remove the battery. When remote distance becomes smaller and insensitive, replace the battery.

If no response from the receiver, please re-match the remote.

Gently handle remote, beware of falling.

For indoor and dry location use only.

Technical data

General

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Output signal	2.4 Ghz
Working voltage	3VDC (AAAx2)
Stanby time	1 yare
Remote distance	30 m (Barrier-free space)
Weight (total)	88 g
Safety	CE, EMC, LVD, RED

Environmental

Protection rating	IP 20
Ambient temperature	-30°C to 55° C

Mounting

To fix the remote, two options are offered for selections.

1. fix the remote barcket on the wall with two screws.
2. Adhere the remote barcket to the wall with paster

58.00 mm

33.00 mm
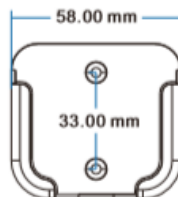
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Key function

⏻ : Short press turn on/off all zone light.

🌈 : Touch to change current zone static RGB color.

1 2 3 4 : Short press select and turn on zone light,
long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.

R G B : Short press get red, green or blue color directly.
long press 1-6s adjust R/G/B brightness continuously
to achieve millions of colors.

W : For RGB light, short press turn on/off white(RGB mix),
long press 1-6s adjust saturation continuously,
namely change current static RGB color to mixed white slowly.
For RGBW light, short press turn on/off W channel,
long press 1-6s adjust W brightness continuously,
namely change saturation by add white color slowly.

⊛ : Adjust dynamic mode for current selected zone,
Short press run next dynamic mode, long press 2s run mode-cycle.

☀ : For static color, adjust brightness,
short press 10 levels,
long press 1-6s for continuous 256 levels adjustment.
For dynamic mode, adjust speed,
short press 10 levels, long press 2s get the default speed.

S₁ S₂ : Short press recall the scene, long press 2s save current state into S1/S2.
the LED indicator display green when save OK.
4 zone recall or save synchronously.

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Accessories / Spare part

	Part name	Description	Item no.
	Adapter Ø28/Ø9	To change the light port from Ø28 to Ø9 mm	7800 0130
	Twinkling Wheel kit	User attachable kit to make your fibres twinkle.	0126 6205

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Maintenance, spare parts and repairs

The effectiveness of the active cooling device is greatly diminished if the cooling fins and the air intake is blocked or polluted with dust. This will reduce the expected lifetime of the product.
The dust must be removed on a regular basis. Interval depending on the environment.
A fine brush, vacuum cleaning or light compressed air can be used for the cleaning.

This light source is not supposed to be otherwise serviced, if used as recommended.

The fan can be replaced using standard tools. A replacement kit with guide is available.

If the product is not performing as specified, use the troubleshooting guide. If you need further assistance, please contact RobLight.

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Application notes

The light generator is an electronic device and must be handled accordingly. The different components will have different factors influencing the practical lifetime. The most important factor for this system is the condition of the surrounding air (temperature and cleanliness). The data we have stated about or and the expected lifetime of the key components, are at the temperatures that the suppliers have performed during their standardized tests in clean environments.

The light generator is designed to run at max ambient temperature, but the longest usable operation is achieved with lower temperatures.

Although there is thermal protection built into this device, it is only a safety device and should not be used as a measurement device to test if the light generator is running at a tolerable surrounding temperature.

The polyconnector is the most stressed part of this system.
Care should be taken to ensure that the fibre ends are 100% clean and free from dust and grease (fingerprint will do damage.). See www.rob-light.com for recommendations to clean fibre ends.

Running the light generator at too high temperatures will not only risk damage to the light source but also to the fibre harness.

KEEP COOL   **CLEAN AIR**

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Troubleshooting

Problem	Trace the problem	Solution
No light	Check the power	Connect the power cord properly Turn on the device
	Check the temperature	Check if it is installed according to the instructions
	Check the dimming	Unplug the light generator. Unplug the dimmer system from the driver. Turn on the power
Light switches on and off	Check the operating conditions of the light generator	Check if it is installed according to the instructions
	Check the active cooling system	Remove dirt and dust from the light generator

If problems are not solved using this guide, please contact RobLight A/S.

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