



# Noria

## Underwater LED lighting

Technical information sheet



Ref: PF10R267 (M20) / PF10R268 (X30)

# Table of Contents

1. Package contents .....	3
2. Technical specifications .....	3
3. Installation .....	4
3.1. Electrical connection .....	4
3.2. Projector Protection .....	5
3.3. Fitting the light in the wall crossing .....	5
4. Monochrome Floodlights: Dimming / Light Intensity Adjustment .....	6
5. RGBW lights: Use - Autonomous mode (colour models only) (PK10R501) .....	6
6. Cable sizes .....	7

Declaration of conformity



## Avertissement

Read these instructions carefully before installing, commissioning and using this product.

Immersed use only.

Only use a safety transformer.

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## 1. Package contents

1 lamp Noria (white or multicoloured) with

- 2x0.75mm<sup>2</sup> cable: 3m (pre-fitted)
- Pre-fitted white trim
- 1.5"; adapter for wall crossing
- Technical manual (this document)

## 2. Technical specifications

Dimensions	Ø 240mm / depth 80mm	
Installation	In a 1.5" brush socket - GA Group	
Power supply	Voltage: 12 V ~ (AC) / Frequency: 50Hz/60Hz	
Power consumption	20W cold white - Version M20 and M20K - 1400 lm	
Max. luminous flux	30W- Version X30 RGBW - 1150 lm (depending on the colour)	
LED type	PF10R267 (M20)	27 Mid Power LEDs cold white (~6000°K)
	PF10R268 (X30)	9 Power LEDs monochrome (3R/3G/3B) + 6 MidPower LEDs cold white 6000°K
	Risk group 1 (low risk) as per IEC62471:2006	
Protection rating	IP-68 (once installed)	

## 3. Installation

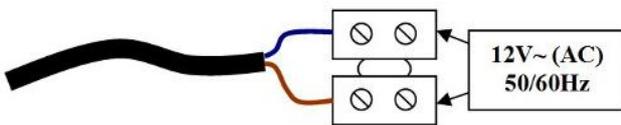
### 3.1. Electrical connection



#### Avertissement

Installation of this project involves a hazard of electric shocks. We strongly recommend you contract a professional installer. An installation error can put you in danger and may irreversibly damage the product and the equipment connected to it. In compliance with the NF C 15-100 standard, pool lights installed in Volume 0 must always be powered by VLSV (Very low safety voltage). In compliance with the National Electric Code (NEC) pool lights must always be powered by VLSV (Very low safety voltage). Always cut off the power upstream before handling the electrical installation.

**Risk of electric shock.** Only connect to a circuit which is protected by a ground fault circuit breaker . (GFCB) If you are not sure if these types of device are fitted, contact a qualified electrician.



It is imperative to connect to the electricity supply in a dry environment, in a sealed connection box of which the cable glands must be tight to prevent any water ingress.

## 3.2. Projector Protection

Independent protection is necessary for each Noria (even if several lights are connected to the same transformer). Protection must be ensured in the secondary of the transformer using fuses or breakers at 3A (M20 / 20K) 4A, 5A (M40 & M40K) 6A or 8A 10A or 12A 5A or 6A 12A or 16A 2A 2A (M24LT & X24LT) or 4A (M24 & X24). The cable cross-section must be adapted accordingly.

## 3.3. Fitting the light in the wall crossing



### Important

The lamps BRIO Noria LED lights can only be installed in 1.5" wall crossings without a hydraulic connection. We recommend that you have the installation carried out by a professional. Refer to the wall crossing installation manual when fitting it.

### 3.3.1. Fitting the adapter

<p>Use PVC adhesive to fix adapter <b>B</b> in wall crossing <b>A</b></p> <ol style="list-style-type: none"> <li>Using PVC adhesive, mount adapter <b>B</b> in wall crossing <b>A</b>. Use the supplied tightening wrench for easier installation.</li> <li>During fitting, respect the measurement (<b>C</b>) between the top of the adapter (right end on the photo) and the pool coating (left end on the photo). <b>12 mm</b> (shell) (if PF10R241)(if PF10R240 or 246) or <b>18 mm</b> (liner)(if PK10R102 + trim PF10R14L).(if PK10R100 - 101 - 104 - 105 + trim PF10R14L)</li> <li>Fit the trim on the light</li> <li>Once the adhesive has dried, fix the light in adapter <b>B</b> (quarter turn assembly, clockwise).</li> </ol>	
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*If necessary, you can always mount adapter **B** (1.5") behind the light (quarter turn assembly, clockwise), then screw the unit through the wall crossing (A). Avoid tightening too much as this may damage the back of the light.*

## 4. Monochrome Floodlights: Dimming / Light Intensity Adjustment

You can adjust the light intensity of your bulbs via short power interruptions (<1 second). Three levels are available:

- 1 micro-cut = 100% of power
- 2 micro-cuts = 75% of power
- 3 micro-cuts = 50% of power
- 1 micro-cut = Back to 100%

When the projector is re-powered after being switched off for more than 5 seconds, it switches back on at the last selected power level.

## 5. RGBW lights: Use - Autonomous mode (colour models only) (PK10R501)

In the absence of a control unit, the bulbs operate autonomously and the user can choose between 18 modes: 11 colour sets and 7 programs (with shorts cutting power supply).

### Change of mode and reset

- A small cut of power supply (less than 1s) switches to the next colour / sequence. Once all the colours are displayed, the light goes back to the first colour (pure white).
- A cut of supply (2s) resets the light synchronization and switches them to the second colours (blue)
- After a long stop (more than 4s) the light show the last displayed colour.

### Fixed colours and available sequences

The colours and sequences are displayed in a preassigned order:

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- 1 to 11 : fixed colours. 1.Pure white | 2.Blue | 3.Blue Lagoon |4.Cyan | 5.Violet | 6.Magenta | 7.Pink | 8.Red | 9.Orange | 10.Green | 11.Warm white
- 12 to 18 : sequences. 12.Fast gradient | 13.Slow rainbow | 14.Colours parade | 15.Tech-no rhythm | 16.Blue variations | 17.Random parade | 18. Ramdom colours



## 6. Cable sizes

Voltage drops in the Noria power cable must be limited to comply with applicable standards and guarantee optimum lighting.  Use the information in the table opposite (one light per cable);	Maximum length (m)	Cable cross-section (mm <sup>2</sup> )			
		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	6 mm <sup>2</sup>
	10	15	21	26	

CCEI declares that the product meets the safety and electromagnetic compatibility requirements of European directives electromagnetic compatibility requirements of European Directives 2014/35/EU and 2014/30/EU EU and the Radio Equipment Directive 2014/53/EU.



Emmanuel Baret  
Marseille, on 10/01/2019

Distributor's stamp

Date of sale: ..... Batch N°: .....