

NM20 - 40 (& NM40K)

Underwater LED lighting

Réf : PK10R200 / PK10R201 / PK10R202



Table of Contents

1. Technical characteristics	2
2. Packaging Contents	3
3. Installation	4
3.1. Polyester pool	4
3.2. Concrete pool	5
3.3. Concrete + liner pool	6
3.4. Panels + liner pool	7
3.5. Wood + liner pool	8
3.6. Position of the screws and cable gland	8
3.7. Locking the light	9
3.8. Bezels for Nikita light	9
4. Electrical Connections	10
5. Cable Cross-Section	11
6. Projector Protection	11
A. Connection schematic	11
B. Declaration of conformity	12



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

Floodlights must never be turned on outside of water

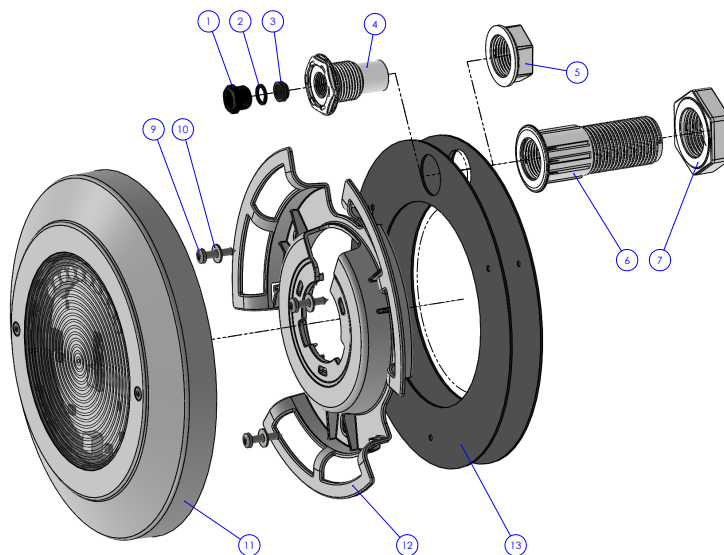
Always use safety transformer only

1. Technical characteristics

Dimensions	Ø ext. 285mm Ø 176mm / depth 43mm (without trim)
Installation	Wall fixing (3 screws)
Power supply	Voltage: 12 V~ AC / Frequency: 50Hz/60Hz
Consumed power	20W (M20 and M20K models) 40W (M40 and M40K models)
LED type	M20 - 27 monochrome MidPower LEDs / Cool White (~ 6000°K) M40 - 96 MidPower monochrome LEDs (Cool White (~6000°K) - Warm White (~3000°K)) Risk group 1 (low risk) according to IEC62471:2006
IP Rating	IP-68
Max light stream	1400 lm max. (M20 and M20K models) 4400 lm max. (M40 and M40K models) 1800 lm max.

2. Packaging Contents

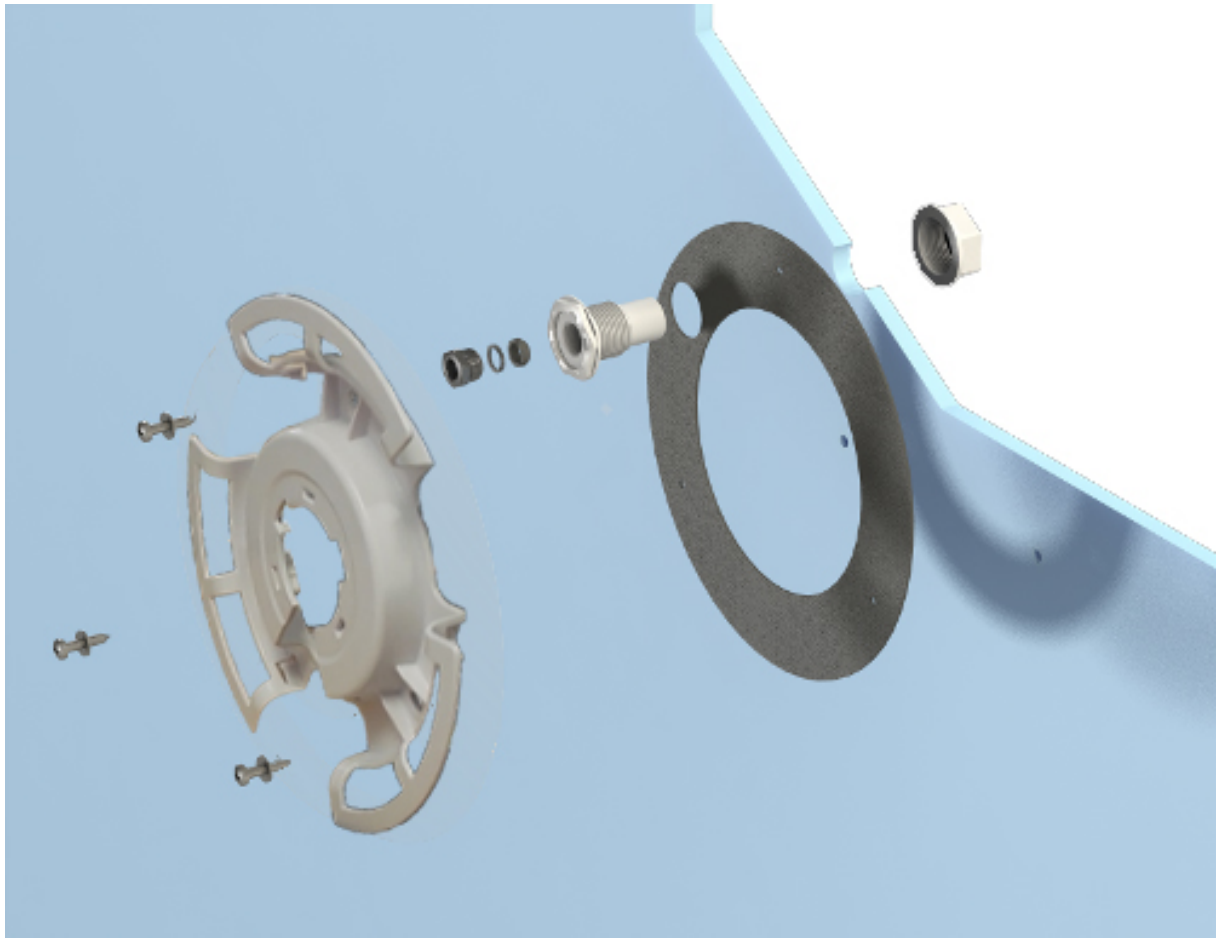
1 light BRIO NM20 - 40 (& NM40K) with 2x1,5mm² cable: 3m (pre-equipped), technical manual (this document) ;



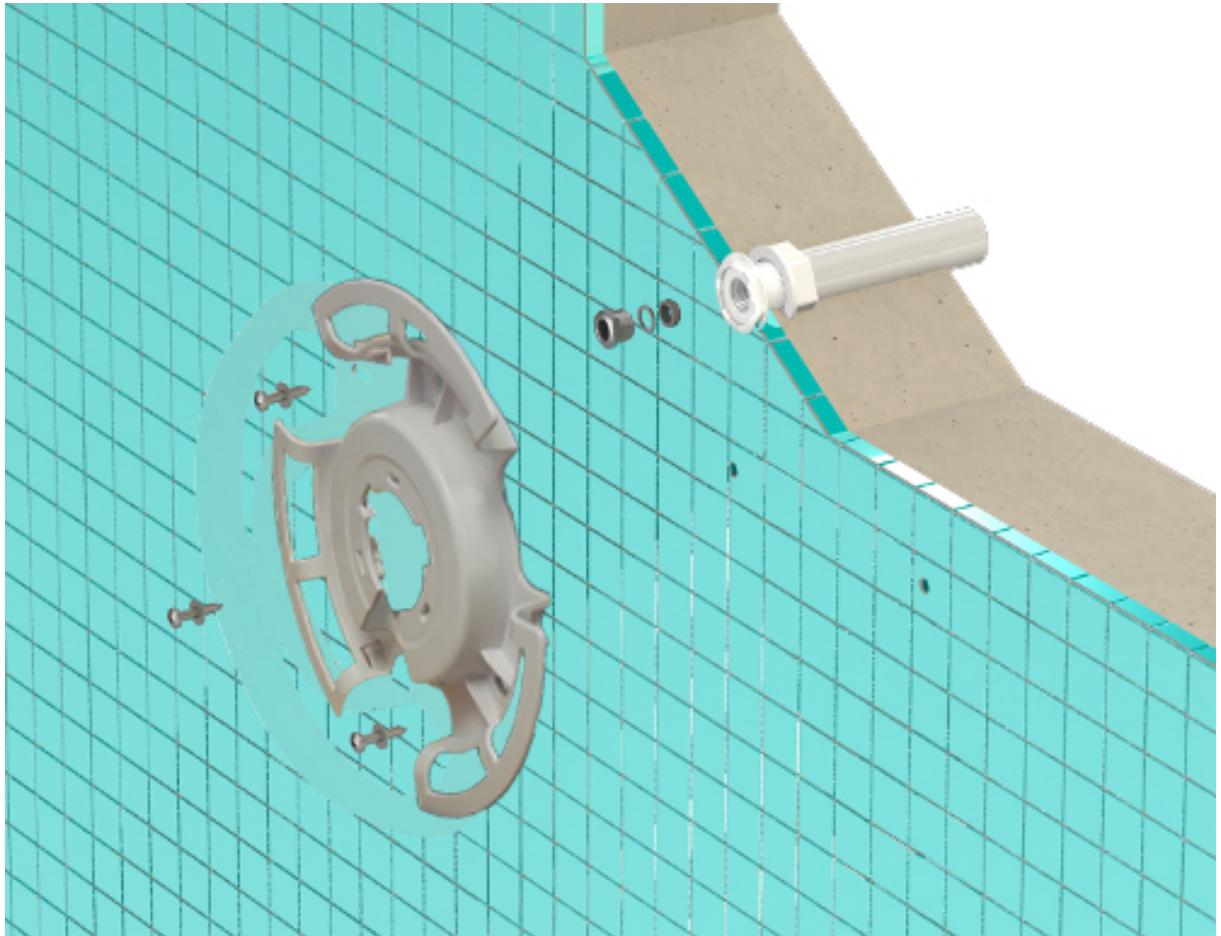
Part number	Reference	Qty	Description
1	MPPE0220	1	BLACK PE SCREW
2	MPPE0222	1	BLACK PE WASHER
3	MPPE0223	1	PE SEAL
4	MPBT0685	1	STANDARD PE HOLDER
5	MPBT0687	1	PE HOLDER NUT
6	MPBT0689	1	WOOD INLET
7	MPBT0688	1	WOOD INLET NUT
8	MPVS0702	3	DOWEL 8
9	MPVS0307	3	SCREW TF POZI 6X30 A4 STAINLESS STEEL
10		4	M6 RING A4 STAINLESS STEEL
11		1	LIGHTING UNIT NM20 or NM40 with stainless steel bezel
12	MPBT0277	1	WALL SUPPORT NIKITA
13	MPCS01K4	2	LINER O-RING STELLA Ø215

3. Installation

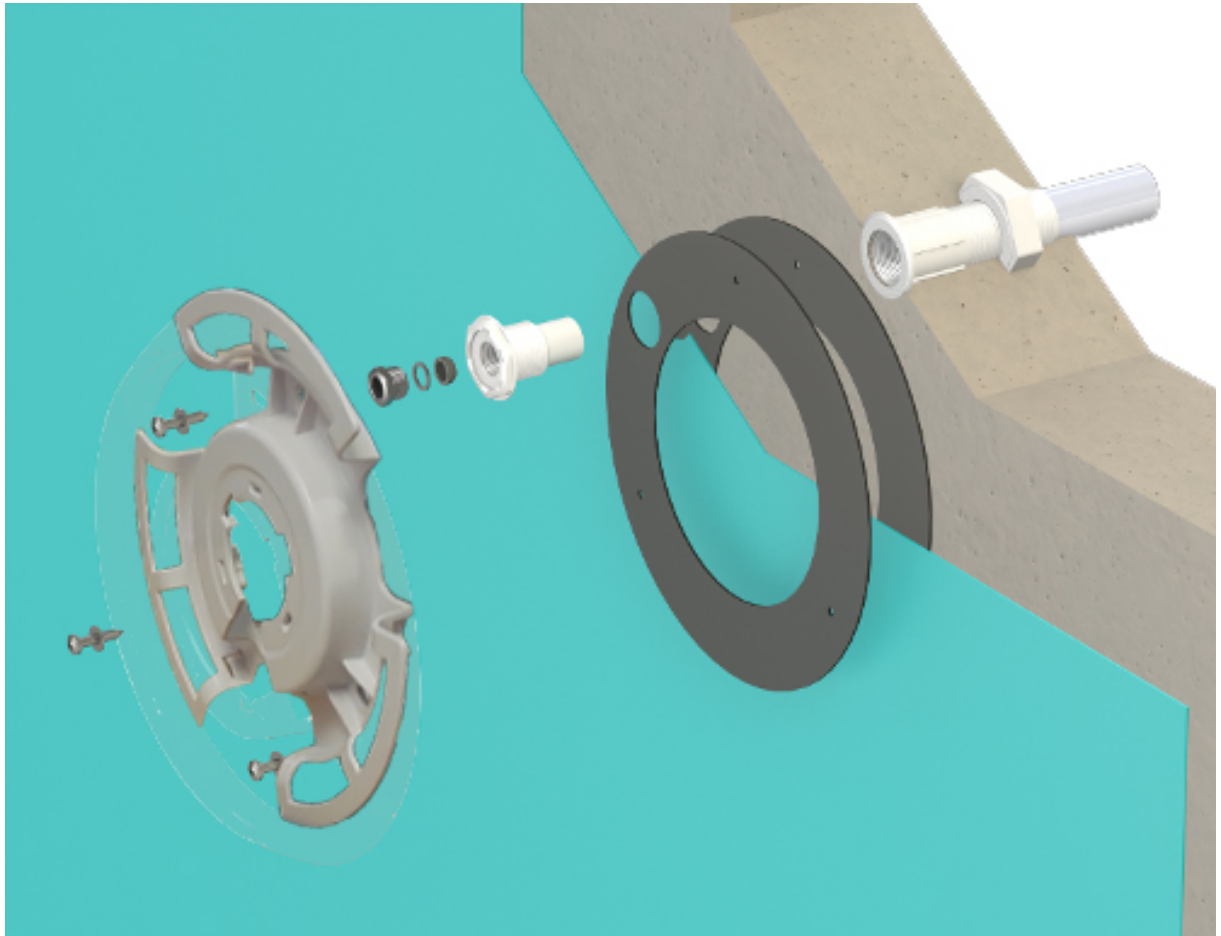
3.1. Poliester pool



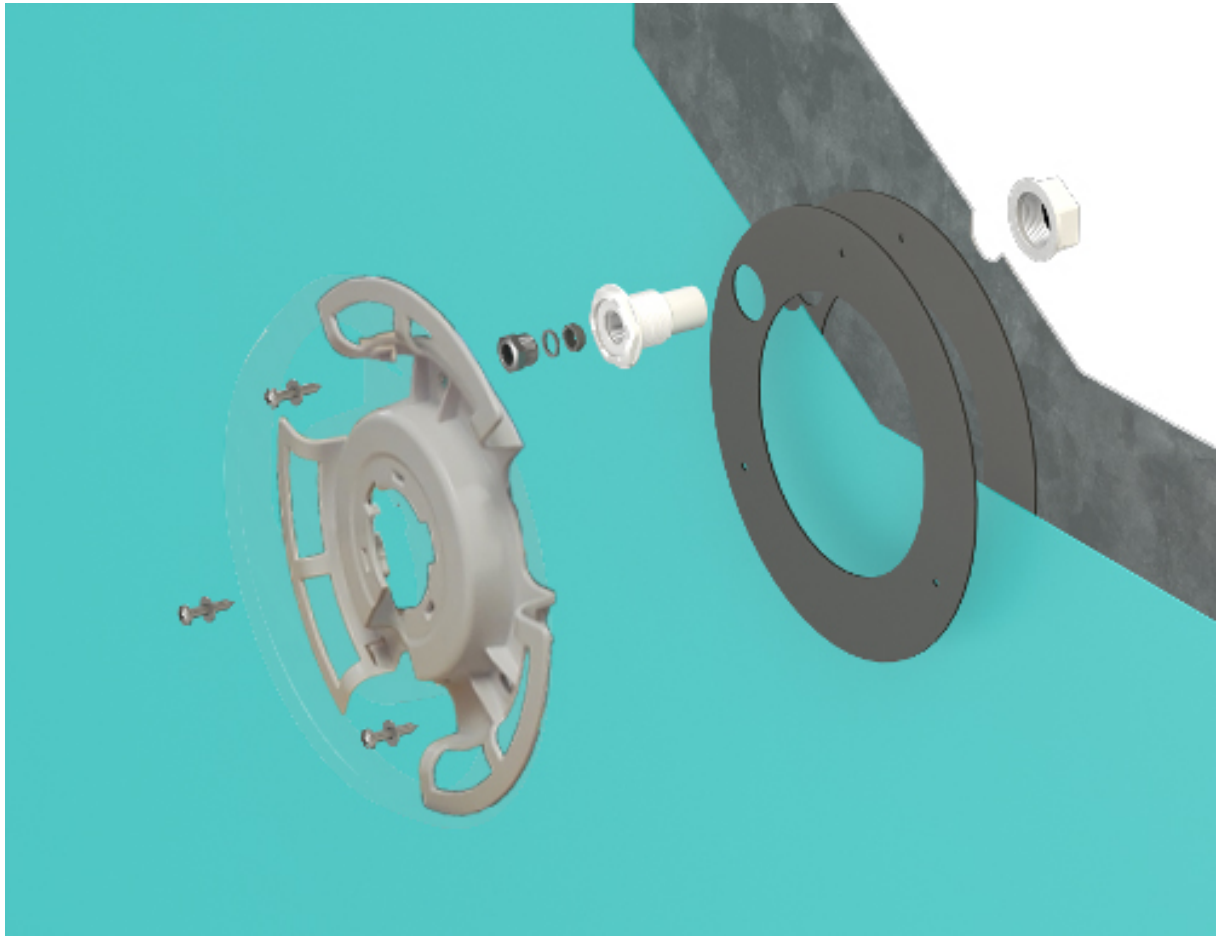
3.2. Concrete pool



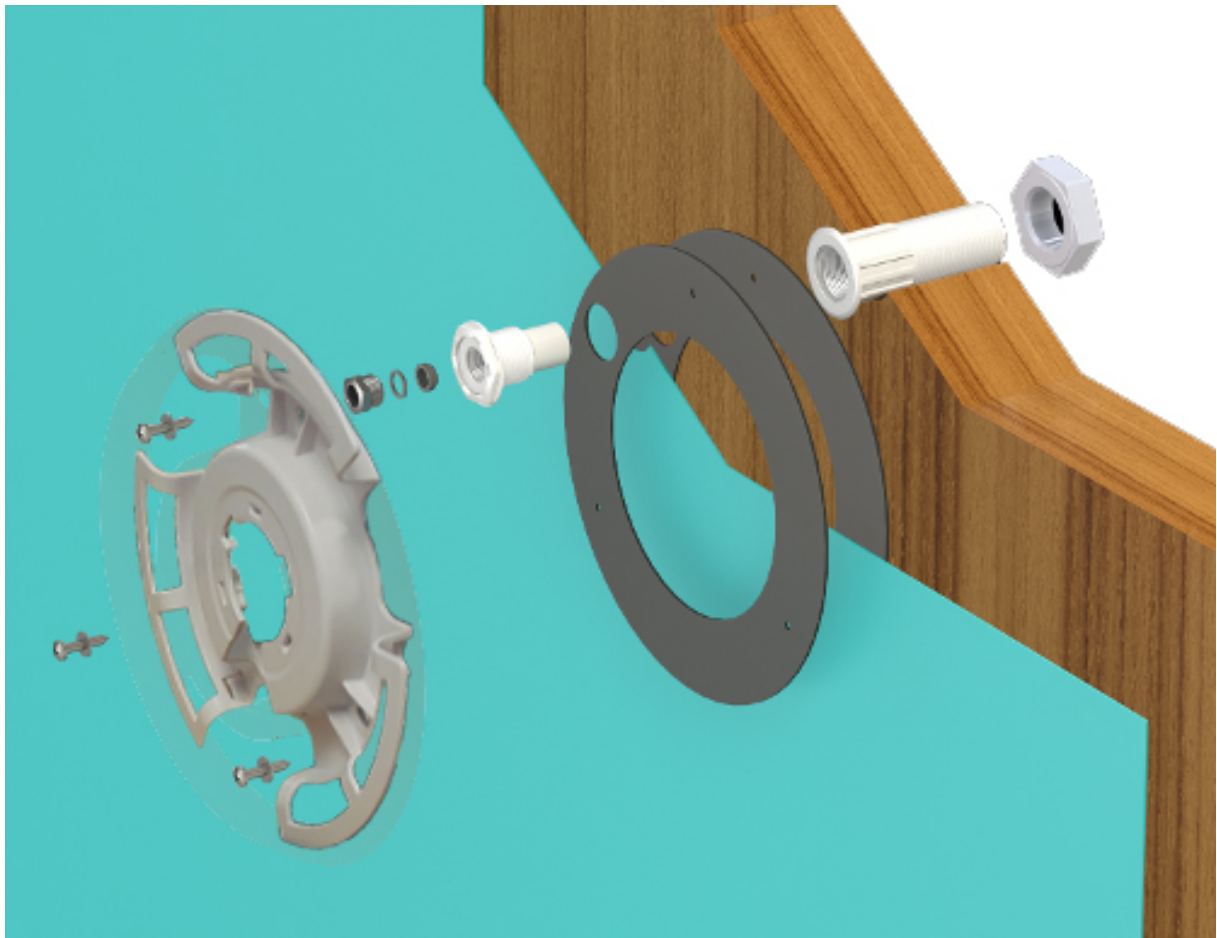
3.3. Concrete + liner pool



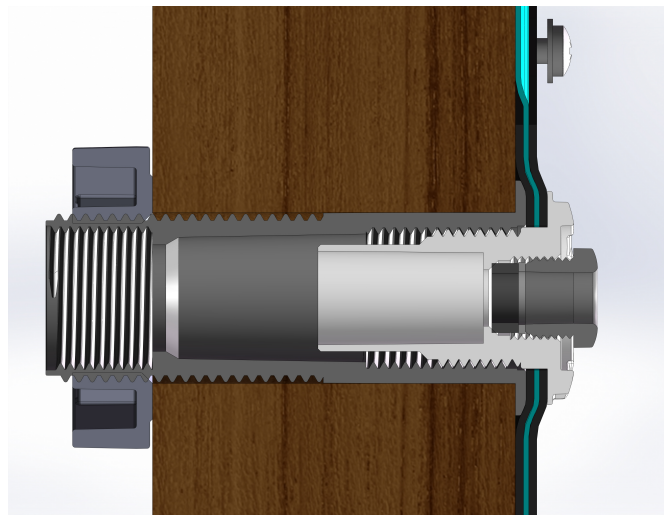
3.4. Panels + liner pool



3.5. Wood + liner pool

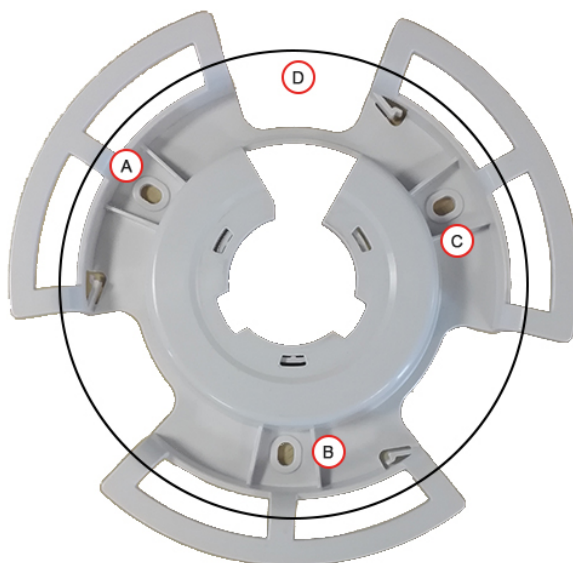


Detail of the assembly of the cable gland (sectional view) :



3.6. Position of the screws and cable gland

- A. Screw (6x30 - see packaging contents) A
- B. Screw (6x30 - see packaging contents) B
- C. Screw (6x30 - see packaging contents) C
- D. Cable gland (above the open part in the middle) D



The **black circle** (on the picture) shows where to wind the supply cable (behind the support) during the installation and before mounting the light.

3.7. Locking the light

The light is locked using a bajonet system. To lock it, turn it clockwise (see picture hereunder). To unlock it turn it anticlockwise **CAUTION** : You must have mounted the plastic or stainless steel bezel before before locking the light

3.8. Bezels for Nikita light

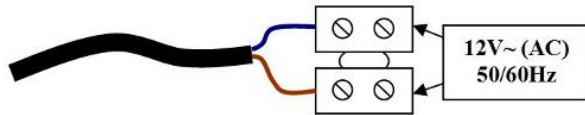
Bezels			
PF10R14Y/W	White	RAL9003	
PF10R14Y/G	Grey	RAL7040	
PF10R14Y/S	Sand	RAL1015	
PF10R14Y/A	Anthracite	RAL7016	
PF10R14I	stainless steel	316L	

4. Electrical Connections



Installation of this project involves a hazard of electric shocks. We strongly recommend you contract a professional installer. Incorrect installation places you in danger and may irreversibly damage the product and the equipment connected to it.

Always cut off the power upstream before handling the electrical installation.



The electrical connection must be performed dry, in a sealed connection box whose cable glands must be tightened in order to avoid any water infiltration.

Once startup and the operation tests are complete, it is recommended to drown the connection with a reusable soft hydrophobic insulating gel. (ref. CCEI PNSP0002)



The external flexible cables for these light fittings may not be replaced.

If a cable is damaged, the fitting must be destroyed or returned to the manufacturer for recycling.

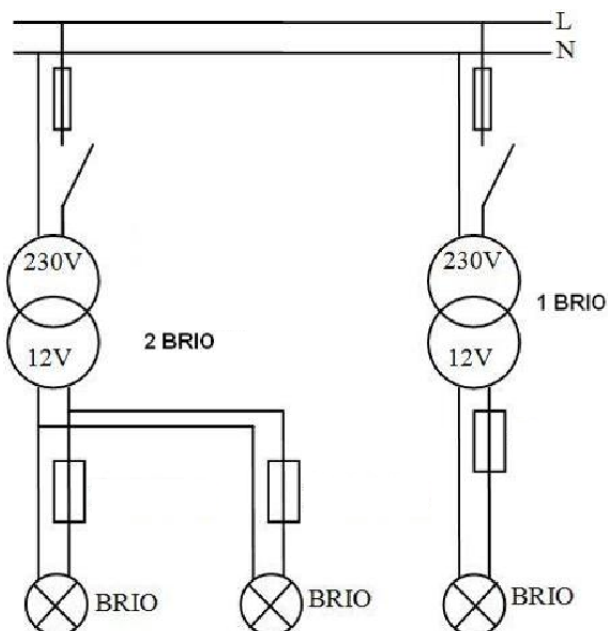
5. Cable Cross-Section

The voltage drop in the supply cable of the NM20 - 40 (& NM40K) cable should be limited in order to comply with the applicable standards and ensure optimal illumination. Follow the table opposite (one projector per cable);		CROSS-SECTION (mm ²)				
		1,5	2,5	4	6	10
		10,9 (M20)	18,2 (M20) 10,0 (M40)	29,1 (M20) 17,0 (M40)	43,6 (M20) 25,6 (M40)	42,6 (M40)

6. Projector Protection

Independent protection is necessary for each NM20 - 40 (& NM40K). Protection must be ensured in the secondary of the transformer using fuses or breakers at 3A (M20 / 20K) , 5A (M40 & M40K).

A. Connection schematic



B. Declaration of conformity

Bleu Electrique SAS (FR47403521693) declares that product NM20 - 40 (& NM40K) is compliant with the safety and electromagnetic compatibility requirements of European directives E.M.C (2014/30/UE), Low voltage (2014/35/UE), RoHS (2011/65/UE), WEEE (2002/96/CE) and REACH (1907/2006).



Emmanuel Baret

Marseilles, on 13/12/2019

Distributor's stamp

Date of sale: Batch N°: