

LUMIPLUS FLEXI MONOCOLOUR 12VAC SPOTLIGHT

LUMIPLUS FLEXI



INSTALLATION AND MAINTENANCE MANUAL

ASTRALPOOL 

IMPORTANT: The instruction manual you are holding includes essential information on the safety measures to be implemented for installation and start-up. Therefore, the installer as well as the user must read the instructions before beginning installation and start-up.
Keep this manual for future reference.

To achieve optimum performance of the LumiPlus Flexi, follow the instructions provided below:

1. VERIFY THE CONTENTS OF THE PACKING:

- LumiPlus Flexi - Bag of accessories - Warranty booklet - Instruction manual

MODELS AVAILABLE ACCORDING TO CHARACTERISTICS

LumiPlus Flexi Monocolor 2.750lm	
Cold White	Warm White
76573	76573WW

2. GENERAL CHARACTERISTICS:

LumiPlus Flexi has been designed to be used fully submerged in water. It is a Class III electric apparatus with very low safety voltage (12 V with alternating current). LumiPlus Flexi is class 116, in accordance with standard EN 50065.

LumiPlus Flexi complies with IPX8 - 2 m.

LumiPlus Flexi complies with international safety standards for lights, especially the EN 60598-2-18 standard: LIGHTS PART 2: SPECIFIC REQUIREMENTS SECTION 18 LIGHTS FOR SWIMMING POOLS AND SIMILAR APPLICATIONS.

The manufacturer is not responsible in any circumstances for assembly, installation or start-up of any electric components which have been inserted or handled at locations other than its own premises.

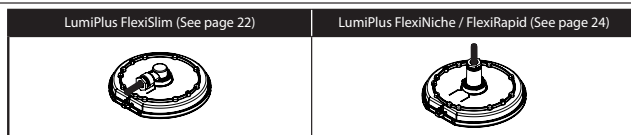
3. INSTALLATION:

- To correctly light a swimming pool we recommend you: Install a LumiPlus Flexi for every 20 - 25 m² of water surface.
- Note: Strongly recommended for pools in light colors. In pools with a dark or stainless steel finish, it is recommended to use more spotlights per m².
- It is the responsibility of the fitter to ensure that the area around the connectors is completely watertight. Make sure the cable gland rubber grips the cable rubber
- The junction boxes should be placed at least 2 m from the edge of the pool or water facility.
- The 230/12 V transformer that feeds the LumiPlus Flexi should be installed at a distance of 3.5 m from the edge of pool or water facility.
- Cable ducts laid less than 3.5 m away from the edge of the pool must not be made of metal.
- The smallest cable cross-section that fits the LumiPlus Flexi is a 2 x 1 mm² H07RN-F.
- The largest cable that can be used for LumiPlus Flexi Niche and Flexi Rapid projectors is an H07RN-F with a cross-section of 2 x 2.5 mm², whilst in the case of Flexi Slim projectors the largest cable that can be used is an H07RN-F with a cross-section of 2 x 1.5 mm².
- If the cable cross-section is larger, an underwater splice must be made.

ATTENTION

UNDER NO CIRCUMSTANCES SHOULD SCREWS OTHER THAN THOSE SUPPLIED BE USED FOR SCREWING THE LUMIPLUS FLEXI CABLE GLAND AS THEY COULD PIECE IT AND RESULT IN WATER GETTING INTO IT.

4. ASSEMBLY:



A description is given below of how to connect the LumiPlus Flexi to the cable to ensure the connection area is watertight. It is important to follow these steps:

1. Ensure that there is no voltage before handling any cable.
2. Put the O-ring seal in place.
3. Thread the cable through the cable gland nut.
4. Connect the cable to the spotlight and tighten the two screws.
5. Fit the cable gland to the body of the projector, as shown. Then screw in the three screws.
6. Ensure that the cable sleeve remains in place in the connection area and then tighten the cable gland using a wrench (6N.m).

7. Ensure that that cable is firmly tightened so that it does not work loose from the cable gland.
8. Once connected, the projector can be fitted to the pool (see faceplate manual).

5. MAINTENANCE:

The LumiPlus Flexi does not require any maintenance. If you become aware that it is not working properly, please contact our customer service department.

⚠ DO NOT ATTEMPT TO HANDLE THE INSIDE OF THE SPOTLIGHT AS THE PRODUCT WARRANTY WILL NO LONGER BE VALID.

6. ELECTRICAL CONNEXION

For the LumiPlus Flexi to work properly, it must have a 12 V AC power supply. LumiPlus Flexi is supplied with a 2.5 meter 2 x 1 mm² H07RN-F cable. Should this be too short, it can be replaced by another cable (see page 26). Should the original cable be replaced or extended, a specific calculation must be made of the cross-sections for each installation to ensure a 12-volt power supply reaches the LumiPlus Flexi and to prevent voltage drops.

It does not require any type of control device. It can only be used to switch the projector On and Off (See page 26).

7. TROUBLESHOOTING:

PROBLEM	CAUSE	SOLUTION
The LumiPlus Flexi is not working	The LumiPlus Flexi does not have a power supply	Connect the LumiPlus Flexi to the power supply through a 12 V AC safety transformer
	The required voltage is not reaching the LumiPlus Flexi	Repeat the pairing process with the two devices
		Use a voltmeter to check that the nominal voltage of 12 V AC is reaching the projector.
The LumiPlus Flexi is flashing slowly	The LumiPlus Flexi is NOT submerged. If it is not submerged the thermal protection trips.	Submerge the projector or fill the pool first before connecting it. It only works submerged.
The LumiPlus Flexi is flashing fast	Not enough voltage is reaching it for it to work properly, due to a voltage drop in the power supply.	Increase the cable cross-section.
	Not enough power is reaching the transformer.	Change the transformer for a more powerful one (it is important to add up the total VA of all the spotlights connected and allow for a reasonable safety margin in order to choose a transformer)

8. SAFETY WARNINGS:

- If the cable or wiring of this luminaire becomes damaged, it may only be replaced by the manufacturer or one of its service engineers, or a person with a similar qualification, in order to prevent any risks.
- The light source of this luminaire may only be replaced by the manufacturer, one of its service engineers or a person with a similar qualification.
- Avoid making contact with the electric voltage.
- Comply with the current standards regarding accident prevention.
- In this regard, the IEC 364-7-702 standards must be observed: WIRING IN BUILDINGS SPECIAL WIRING SWIMMING POOLS.
- All maintenance operations should be performed with the LumiPlus Flexi disconnected from the mains.
- Do not handle with wet feet.
- LumiPlus Flexi is designed FOR USE UNDERWATER ONLY and may ONLY BE RUN WITH A SAFETY TRANSFORMER.
- LumiPlus Flexi withstands to the treatments of swimming pool described next as long as the values of concentration do not surpass the following values:

TYPE OF TREATMENT	CONCENTRATION IN WATER
Chlorine	2 mg/l
Bromine	5 mg/l
Salt electrolysis (Na Cl)	6 g/l

Attention : Please note that the Ph of pool water always must be between 7.2 and 7.6.

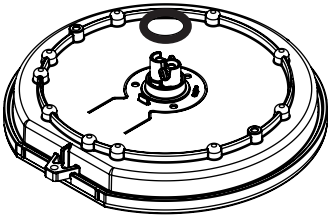


FIG. 1

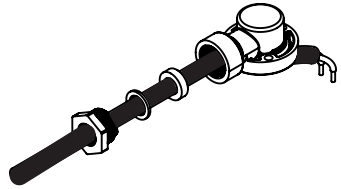


FIG. 2

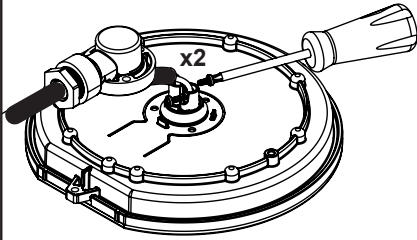


FIG. 3

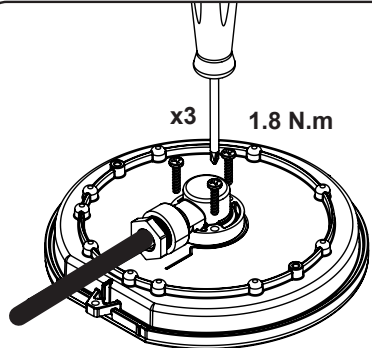


FIG. 4

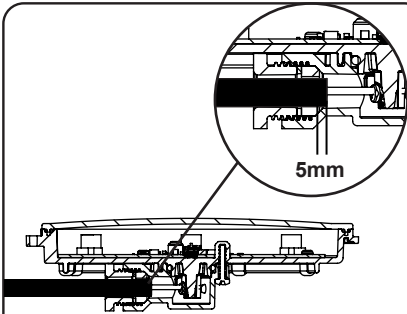


FIG. 5

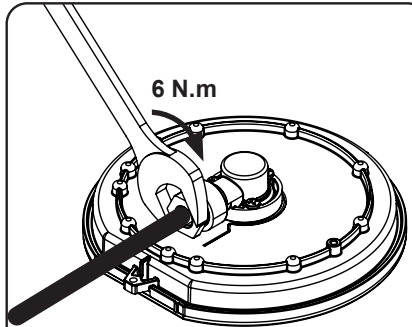


FIG. 6

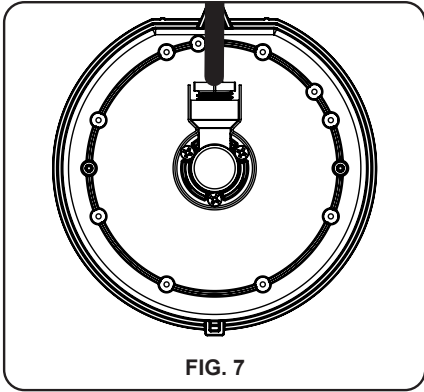


FIG. 7

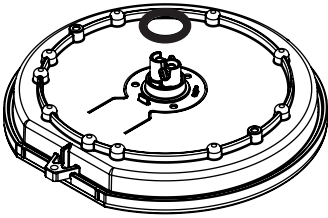


FIG. 1

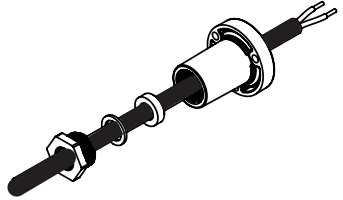


FIG. 2

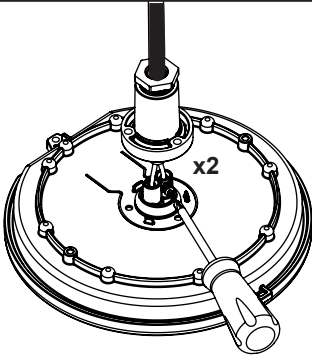


FIG. 3

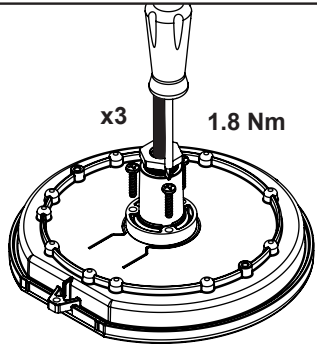


FIG. 4

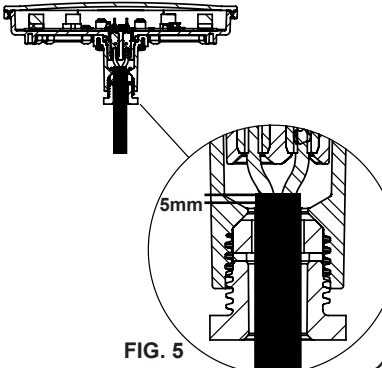


FIG. 5

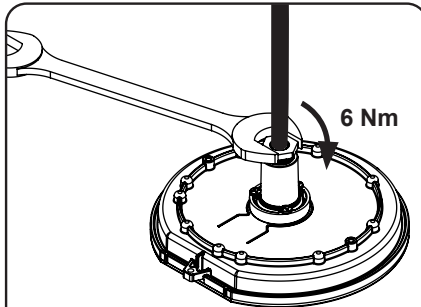


FIG. 6

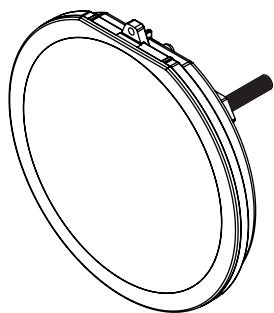
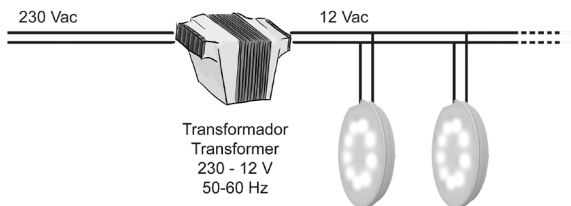


FIG. 7

ELECTRICAL CONNECTION DIAGRAM
 DIAGRAMME DES CONNEXIONS ELECTRIQUES
 DIAGRAMA DE CONEXIONADO ELECTRICO
 DIAGRAMMA DELLE CONNESSIONI ELETTRICHE
 ELEKTRISCHER SCHALTPLAN
 DIAGRAMA DAS LIGAÇÕES ELÉTRICAS
 ΔΙΑΓΡΑΜΜΑ ΗΛΕΚΤΡΙΚΩΝ ΣΥΝΔΕΞΕΩΝ

مخطط التوصيلات الكهربائية

6.1.LumiPlus Monocolor



LUMIPLUS FLEXI

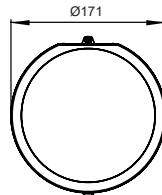
- COMPATIBILITY OF CABLE CROSS-SECTION AND LENGTH IN FLEXI MODELS WITH A MAXIMUM VOLTAGE DROP OF 5%, CONNECTED TO NOMINAL VOLTAGE.
- COMPATIBILITÉ SECTION-LONGUEUR DU CÂBLE SELON LE MODÈLE FLEXI AVEC CHUTE DE TENSION MAXIMALE DE 5 %, RELIÉ AU COURANT NOMINAL.
- COMPATIBILIDAD SECCION-LONGITUD CABLE SEGUN MODELO FLEXI CON UNA CAIDA DE TENSION MAXIMA DEL 5% CONECTADO A LA TENSION NOMINAL
- COMPATIBILITÀ DI SEZIONE-LUNGHEZZA CAVO SECONDO IL MODELLO FLEXI CON UNA CADUTA DI TENSIONE MASSIMA DEL 5%, COLLEGATO ALLA TENSIONE NOMINALE.
- KOMPATIBILITÄT QUERSCHNITT-LÄNGE DES KABELS JE NACH FLEXI-MODELL MIT EINEM MAXIMALEN SPANNUNGSABFALL VON 5%, ANGESCHLOSSEN AN DIE NENNSPANNUNG.
- COMPATIBILIDADE SECÇÃO-COMPRIMENTO CABO SEGUNDO MODELO FLEXI COM UMA QUEDA DE TENSÃO MÁXIMA DE 5%, LIGADO À TENSÃO NOMINAL
- **ΣΥΜΒΑΤΟΤΗΤΑ ΜΗΚΟΥΣ ΚΑΙ ΔΙΑΤΟΜΗΣ ΚΑΛΩΔΙΟΥ ΣΕ ΜΟΝΤΕΛΑ FLEXI ΜΕ ΜΕΓΙΣΤΗ ΠΤΩΣΗ ΤΑΣΗΣ 5%, ΣΥΝΔΕΔΕΜΕΝΟ ΣΕ ΟΝΟΜΑΤΙΚΗ ΤΑΣΗ**


FLEXI τζαζαρπ τζι λιβαλλιλ لوطلال او يضرع ال عطقم لال قفاوت
 تيمس الال قيت لوفال اب ليصوت ال اءانثا 5% ءبسنن ب قيت لوفال ضا فخنال ي صقأ ءح ع

CODE FLEXI PROJECTOR	DESCRIPTION	POWER (VA)	2 x 1,5mm ² CABLE						2x2,5mm ² CABLE		
			5m	10m	15m	20m	25m	30m	5m	10m	
			74652	74656	74657	74658	74659	74673	71644	71645	
76573	Flexi OnOff W 2.750	28	X								X
76573WW	Flexi OnOff WW 2.750	28	X								X

- TECHNICAL CHARACTERISTICS
- CARACTERISTIQUES TECHNIQUES
- CARACTERÍSTICAS TÉCNICAS
- DATI TECNICI
- TECHNISCHE ANGABEN
- ΤΕΧΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ

• المواصفات الفنية



DESCRIPTION	LumiPlus Flexi 2750lm	
LIGHT	White	Warm White
Code / Code / Código / Codice / Code / Código / Κωδικός / الرمز	76573	76573WW
Power / Pouvoir / Potencia / Potere / Macht / Poder / Ισχύς / القدرة	28W (40VA)	
Rated voltage / Tension nominale / Tensión nominal / Tensione nominale / Anschlussspannung / Tensão nominal / Ονομαστική τάση / الفولتية المقننة /	12 V AC - 50/60 Hz	
Protection / Protection / Protección / Protezione / Schutz / Protecção / Προστασία / الحماية	CLASS III - IPX8	
	TO BE USED ONLY WITH A SECURITY TRANSFORMER / À UTILISER UNIQUEMENT AVEC UN TRANSFORMATEUR DE SÉCURITÉ / PARA USO EXCLUSIVO CON TRANSFORMADOR DE SEGURIDAD / PER USO ESCLUSIVO CON TRANSFORMATORE DI SICUREZZA / NUR ZUSAMMEN MIT EINEM SICHERHEITSTRANSFORMATOR ZU BENUTZEN / PARA USO EXCLUSIVO COM TRANSFORMADOR DE SEGURANÇA / ΠΡΟΟΡΙΖΕΤΑΙ ΓΙΑ ΧΡΗΣΗ ΜΟΝΟ ΜΕ ΜΕΤΑΣΧΗΜΑΤΙΣΤΗ ΑΣΦΑΛΕΙΑΣ / للاستخدام فقط مع محول أمان /	
LUMIPLUS FLEXI NEVER TO BE SWITCHED ON IF IT IS NOT SUBMERGED / N'ALLUMER LE LUMIPLUS FLEXI QUE SUBMÉRGÉ DANS L'EAU / NO ENCENDER NUNCA LUMIPLUS FLEXI SI NO ESTA SUMERGIDO EN AGUA / NON ACCENDERE MAI IL LUMIPLUS FLEXI SE NON È IMMERSO IN ACQUA / LUMIPLUS FLEXI NUR UNTER WASSER GETAUCHT ANZUMACHEN / NÃO ACENDER NUNCA O LUMIPLUS FLEXI SE NÃO ESTIVER SUBMERGIDO NA AGUA / TO LUMIPLUS ΔΕΝ ΠΡΕΠΕΙ ΝΑ ΕΝΕΡΓΟΠΟΙΕΙΤΑΙ ΠΟΤΕ ΕΑΝ ΔΕΝ ΕΙΝΑΙ ΒΥΘΙΣΜΕΝΟ ΣΤΟ ΝΕΠΟ / ابتدا إذا لم LUMIPLUS FLEXI لا يجب إضاءة / يكن مغفورا		

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