

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 RGB "SMALL" light for LED's, follow the instructions provided below:

1. ELECTRICAL CONNECTION

The spotlights are supplied with a 2-wire 1.5mm² Cu HO7RNLF cable. You should make sure that the voltage received by the lamp is never more than 12V-AC. The transformer must be able to supply 6 VA for each led "Mini" light connected.

2. CONTROL SYSTEMS OF THE LED PROJECTORS:

The SMALL LED spotlight can be used together with spotlights of the QUICK series.

2.1. NC (normally-closed) Pushbutton control (see figure 1 on page 12)

The pushbutton of control must support the power of all the projectors that we connect to it. In the case of the pushbutton it must be connected in the primary one of the transformer and holds a maximum power of 700VA.

The pushbutton control enables you to create different lighting scenarios inside the pool with two function modes:
Fixed colour: Selection of a fixed colour from seven possibilities.

| COLOUR № | COLOUR |
|----------|--------|
| 1 | White |
| 2 | Red |
| 3 | Blue |
| 4 | Green |
| 5 | Purple |
| 6 | Cyan |
| 7 | Yellow |

Automatic colour sequence: Selection from among seven programmes of colour sequences. Each programme is defined by the duration of each colour and of the transition from one colour to another, according to the following table:

| SEQUENCE | ORDER OF COLOURS |
|----------|-----------------------------------|
| 1 | Red Blue Green Purple Cyan Yellow |
| 2 | Red Green Cyan Blue Purple Yellow |
| 3 | Purple Cyan Yellow - - |
| 4 | Red Blue Green - - |
| 5 | Purple Cyan Yellow - - |
| 6 | Yellow Purple Cyan - - |
| 7 | Green Red Blue - - |

Each press of the pushbutton changes a colour or sequence. The cycle of colours and sequences is rotary. For example, if you are in colour 6, by pressing once you will go to colour 7. If you press once again, you will go to sequence 1. If you are in sequence 7, press once and you will go to colour 2 which is Red. Colour 1 is white and is reached by one long press.

2.2. Control by means of Modulator (see figure 2 on page 12)

The modulator must support the power of all the projectors that we connect to it: the maximum power that it supports is 540 VA.

The Remote Control – Modulator – Transformer – Led Projector unit enables you to create different lighting scenarios inside the pool with two function modes:

Fixed colour: Selection of a fixed colour among twelve possibilities.

| | | | |
|---|--------|----|---------------|
| 1 | Red | 7 | Sky-blue |
| 2 | Green | 8 | Pale Violet |
| 3 | Blue | 9 | Orange |
| 4 | Yellow | 10 | Magenta |
| 5 | Cyan | 11 | Emerald green |
| 6 | Purple | 12 | White |

Automatic colour sequence: Selection from among eight programmes of colour sequences. Each programme is defined by the duration of each colour and of the transition from one colour to another, according to the following table:

| SEQUENCE | ORDER OF COLOURS |
|----------|---|
| 1 | Red Green Blue |
| 2 | Cyan Purple Yellow |
| 3 | Green Emerald Cyan Sky-blue Blue Sky-blue Cyan Emerald green |
| 4 | Red Orange Green Orange |
| 5 | Red Magenta Blue Magenta |
| 6 | Red Orange Green Cyan Blue Magenta |
| 7 | Pale Violet Purple Cyan White Yellow Purple Cyan Purple |
| 8 | Red Green Blue Yellow Cyan Purple Pale Violet Sky-blue Orange Magenta Emerald Green White |

2.3. Electrical connection diagram

In both configurations, with pushbutton (Fig. 1) or with modulator (Fig. 2), the two cables should be connected as if it were another spotlight.

3. SAFETY WARNINGS:

- People in charge of assembly should be suitably qualified for this type of work.
- 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 projector disconnected from the Mains.
- 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.
- The projector is designed TO OPERATE ONLY WITH A SAFETY TRANSFORMER.

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 keep this manual for future reference.

To achieve optimum performance of the "SMALL" light for LED's, follow the instructions provided below:
1. VERIFY THE CONTENTS OF THE PACKING:

The following accessories are included inside the box:

"SMALL" LIGHT

Models :

- 52124 IP 74, 52131 IP 74,
- 52130 IP 74

- Unit floodlamp
- Decorative cover
- O'ring
- Installation and maintenance manual
- Manual for electrical connection

"SMALL" LIGHT

Models :

- 52126 IP 74, 52133 IP 74,
- 52132 IP 74

- Unit floodlamp
- Decorative cover
- Butt joint
- Nut
- Installation and maintenance manual
- Manual for electrical connection



2. GENERAL CHARACTERISTICS:

This floodlamp is a Class III electric apparatus with very low safety voltage.

The floodlamp complies with IPX8 degree of protection (resistance to penetration of dust, solid bodies and humidity) at a nominal immersion depth of 2 m.

This floodlamp complies with international safety standards for lights, especially the EN 60598-2-16 standard. LIGHTS PART 2. SPECIFIC REQUIREMENTS SECTION 16. 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:

- In order to clearly light a pool it is recommended to install a floodlamp every 5 m² of water surface. In swimming pools which are especially deep, a floodlamp is required for every 10 m³ of water volume.
 - In order to prevent glare, the floodlamps should be installed so that they face away from the residence or usual view of the swimming pool.
 - In the event that lighting is used in training or competition pools, the floodlamps should be installed on the sides to prevent glare on the swimmers.
 - To avoid the need to empty the pool to change the lamp, we recommend that the floodlamp be installed in areas which are accessible from the upper edge of the pool.
- Prior to installation verify that the gland seal has been fully tightened.

4. ASSEMBLY:

"SMALL" light (52124 IP 74, 52131 IP 74, 52130 IP 74)

This light is manufactured for installation in guiding tube.

1. Install the wall conduit in the concrete wall, at a distance of 400-700 mm. Below the water level (Fig. 1).
2. The wall conduit must be extended with a cable conduit the length of which remains above the maximum level of the swimming pool or spa (Fig. 5).
3. Feed the light cable through the conduit (Fig. 6). Leave enough length of cable in order to be able to remove the floodlamp to the border of the swimming pool (Fig. 2).
4. Then fit the light itself, pushing it into place (Fig. 7).

"SMALL" light (52126 IP 74, 52133 IP 74, 52132 IP 74)

This light is manufactured for installation in SPAS and metal or polyester bath-tubs. It does not require a niche or guiding tube for its installation.

1. The light should be installed at approximately 400 mm below the water-level of the SPAS and in a place where it cannot easily be covered by the body of a person. Install it preferably in the wall of the steps at the entrance of the SPAS (Fig. 1).
2. With the use of a drill make a round hole a diameter of 60 mm in the wall of SPAS (Fig. 3).
3. Place the rubber gasket and the light inside the SPAS. Check that there is not dirt in the part of the projector that is with it in touch.
4. Place the nut of 2" on the back-part of the body of the SPAS. Fixing the nut to the body of the light (Fig. 4).

Take the precaution of leaving 1.5 m of cable wound on the body of the floodlamp in order to be able to remove the floodlamp to the edge of the pool in the event that handling is required (Fig. 2).

Concrete swimming pool

To install a floodlamp in a concrete pool the housing (n. 16) should be fixed in the wall of the swimming pool (Fig. 1). Use either M6x24 (n.5) screws to secure the housing clamp to the pool.

After the housing has been installed, then assemble the floodlamp. Insert the cable in the cable duct. Then, tighten the nut on the cable duct. Take the precaution of leaving 1.5 m of cable wound on the body of the floodlamp (Fig. 12) in order to be able to remove the floodlamp to the edge of the pool in the event that handling is required (Fig. 2).

Insert the entire floodlamp assembly in the housing and secure it (Fig. 13).

Panelled swimming pool with Liner

The projector can be installed in a metal sheet or plastic panelled swimming pool, using the template, and making a circular hole of 147 mm diameter and 4 holes Ø 4 mm (Fig. 8). Place the recess (n. 16) through the inside of the pool and drill the 4 DIN 7982 4.8x25 screws (n. 15). Make sure that the cable outlet from the recess is on the upper side.

Stick the adhesive joint (no. 8) on the inside of the pool and then place the liner. Place the flange (n. 6) through the inside of the pool, fasten it to the recess (n. 16) with 8 screws. Make sure that the word "TOP" is located on the upper part.

Cut the Liner which is inside the flange, so that the recess is free and proceed to assemble the projector. Insert the cable in the cable duct. Then, tighten the nut on the cable duct. Take the precaution of leaving 1.5 m of cable wound on the body of the floodlamp (Fig. 12) in order to be able to remove the floodlamp to the edge of the pool in the event that handling is required (Fig. 2).

Insert the entire floodlamp assembly in the housing and secure it (Fig. 13).

5. MAINTENANCE:

This projector does not require any type of maintenance. If the projector is not working properly, please contact our customer attention department.

THIS PRODUCT DOES NOT CONTAIN ANY ELEMENTS THAT CAN BE HANDLED, DISMANTLED OR REPLACED BY THE USER. IT IS FORBIDDEN TO ACCESS INSIDE THE PRODUCT, OTHERWISE THE GUARANTEE OF THE PRODUCT WILL BECOME INVALID.

6. SAFETY WARNINGS:

- People in charge of assembly should be suitably qualified for this type of work.
- 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 projector disconnected from the Mains.

7. ASSEMBLY AND FUNCTIONING WARNINGS:

- It is not recommended the use of sealing putty in this product and, anyway, you should use only products specifically conceived to work with ABS, all those products of universal use remain excluded.
- The projector is designed **TO OPERATE ONLY WITH A SAFETY TRANSFORMER.**
- 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.
- It is responsibility of the installer to ensure that no water gets inside the projector by means of the cables.
- This projector is not designed to work submerged in seawater.



- This projector is resistant to pool treatments described below, always that the concentration values do not exceed the following levels:

| TYPE OF TREATMENT | CONCENTRATION IN WATER |
|---------------------------|------------------------|
| Chlorine | 2 g/l |
| Bromine | 5 g/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.