



**INSTRUCTIONS PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS. READ ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.**

**DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION! Please read all instructions before installation.**

- Keep these instructions for future reference.
- Must be installed by a qualified electrician in accordance with national and local standards. Designplan is not responsible for fixtures installed without regard to these standards.
- Unauthorized alterations or tampering of product voids warranty.
- The main power connection must be in accordance with local electrical codes.
- Suitable for OUTDOOR applications.



**IP68**  
**(to 9.84ft depth)**

## Electrical Connections:

- LED lights must be **connected in parallel** respecting polarities.
- **CHOOSE POWER SUPPLY ACCORDINGLY.** Please consider the voltage through which fixtures are fed as well as the max power consumption.
- **Connect power only if all the fixtures are connected.**
- This unit must be used in conjunction with a suitable fountain rated power supply.
- Use only Class 2 type electronic power supply.
- Never use switches on secondary circuit.

## Maintenance

Scheduled maintenance must be carried out once a year on all lighting devices, regardless of appliance class and type of use. It must include the following operations:

- Periodically clean fixtures to remove dirt from gratings and screw heads.
- Check tightness of screws on various parts of the device.
- Check that all cable glands and cables are intact and tight. Check that the glass or plastic lens is intact, and replace it if broken or damaged.
- The internal components such as the ballast, driver, washers and screws must not show clear signs of oxidation or rust. Clear traces of rust and oxidation will indicate the presence of water inside the device.
- In the case of damage, the components must be replaced by original components or spare parts.

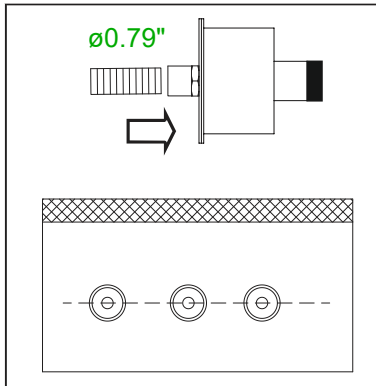
# FLEA MINI UNDERWATER

Remote 24VDC, 2W  
Fresh Water (PH 6.5-8.5)

installation instructions

## GENERAL PRESCRIPTIONS

The safety of fixture is guaranteed only when it is used in accordance with following instructions, therefore it is necessary to keep them. Eventual tampering, transformations of fixture and wrong installations cause the loss of every guarantee. Before carrying out any installation or maintenance procedure, switch the electric power off.

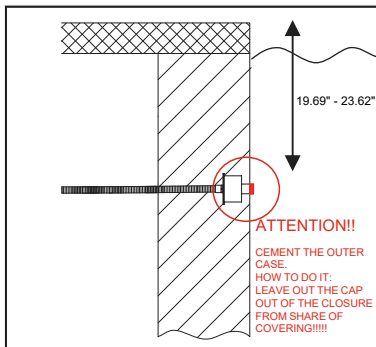


### Junction box

Put the junction box and corrugate tube diameters, 0.79", in the relative housing before pouring the cement to guarantee correct assembly

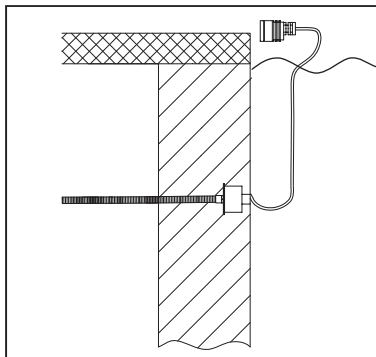


**TO USE ONLY FOR IMMERSION IN FRESH WATER (PH 6.5-8.5)**



### Fixing of junction box

Fix the junction box at 19.69" - 23.62" of depth with respect to the water level. Perform maintenance of fitting without emptying the swimming pool.



### Fixing product

After installing the product, put the cables supplied in their relative cable-blocker and then close it. It is important to close the cable-blocker correctly to guarantee watertight fitting.

We suggest keeping 15.75" - 19.69" of cable in the junction box in order to draw up the fitting easily for eventual maintenance

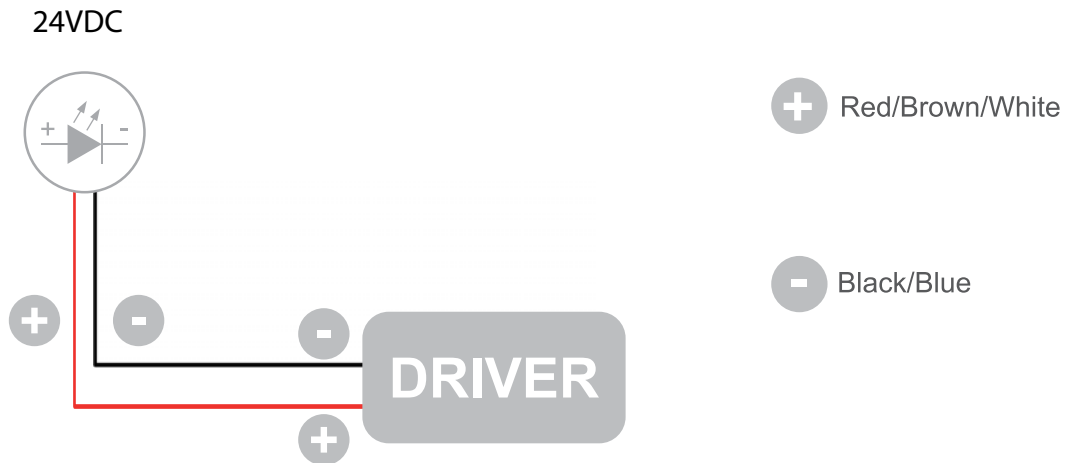
## MAINTENANCE

In case of replacement of the bright source you have to respect the parameters indicated inside mark in the fixture.  
In case of breaking or crack of diffuser to call our company in order to make the exact replacement.  
It is important to clean the fitting in order to avoid dirty deposit on the rubber closing basket and inside the fixture.  
To clear the glass not use abrasive products.

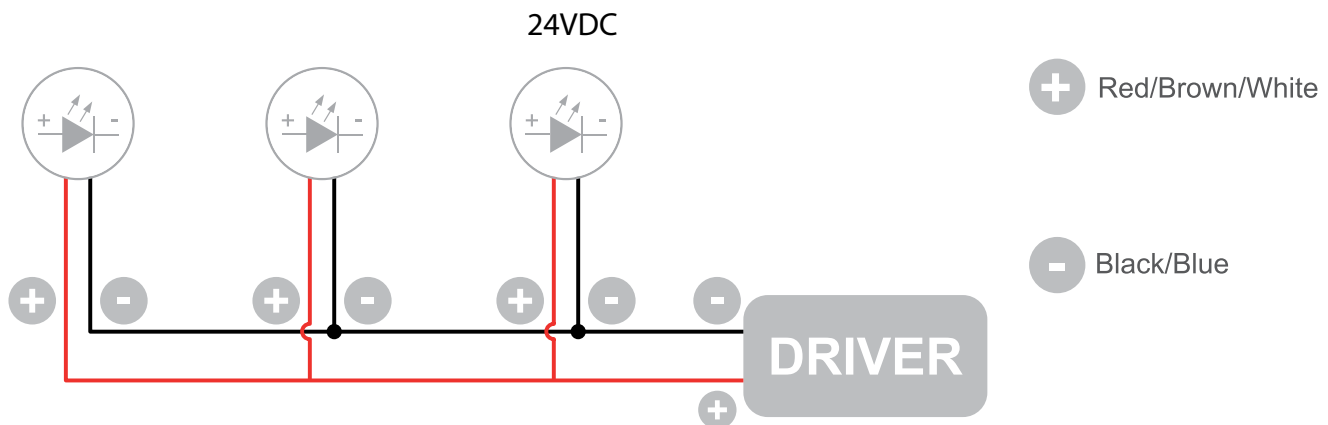
## Wiring Diagram

installation instructions

### Single Fixture Connection:



### Multiple Fixtures Connection in Parallel:



**The individual lamps must be connected in parallel. Only power up the system once all the lamps have being connected.**

- Only power up the system once all the lamps are connected. Connecting an individual lamp to an active power supply may cause the lamp to break due to over-voltage.
- Lamps and power supply units must be installed in well-ventilated boxes or locations to allow a natural heat diffusion and avoid the devices overheating.
- On the power system, install a surge protection device to reduce the intensity of any voltage spikes to protect the lighting fixtures from the risk of damage.
- Fixture NOT suitable for covering with thermally insulating material.