

4.3061 LED LINEAR IP68



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.
- The main power connection must be in accordance with local electrical codes.
- Unauthorized alterations or tampering of product voids warranty.
- Suitable for OUTDOOR applications.



Electrical Connections:

- LED lights must be **connected in series** 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 fixtures are connected.**
- This unit must be used in conjunction with a suitable fountain rated power supply.
- The electronic power supply is current-stable, therefore it partially compensates the voltage-drop problems related to the cable length; we suggest not to exceed 100 ft.
- Use only Class 2 type electronic power supply.
- Never use switches on secondary circuit.

ATTENTION: For In-Grade - It is the contractor's responsibility to seal the conduit with "Great Stuff" aerosol seal that prevents water and moisture penetration for ultimate protection. Contractor **MUST** use gel-filled wire nuts.

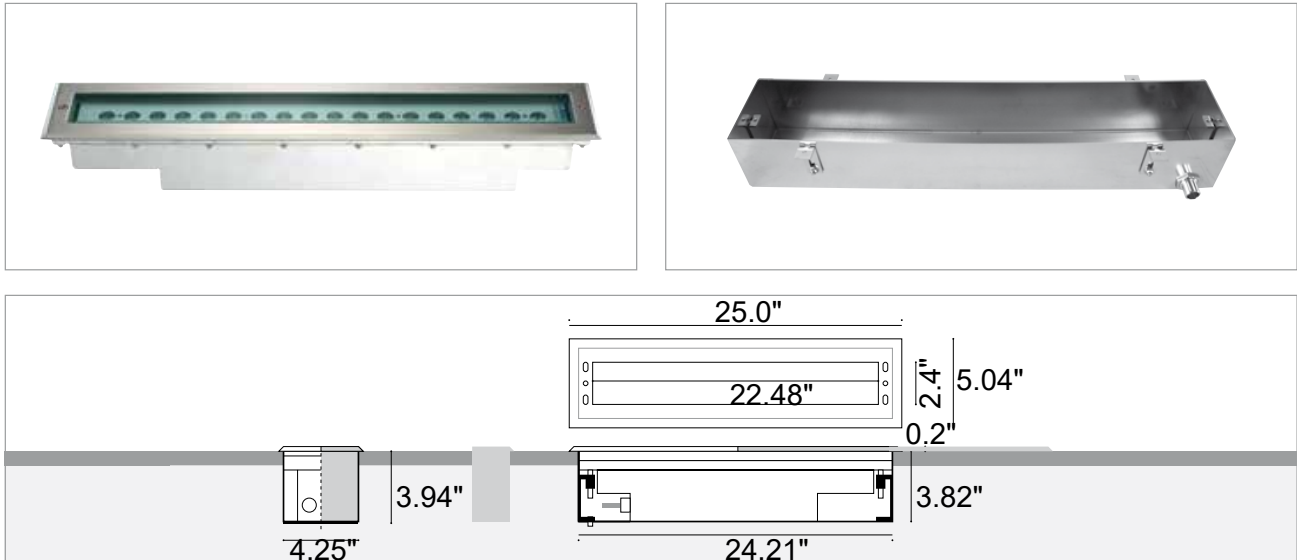
Maintenance

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.

4.3061 LED LINEAR IP68

Fixture Installation



1. Application

Installed underwater spotlights for fixation in ground and walls, for illumination and accent lighting in swimming pools, water attractions and fountains.

The spotlight is suitable for use in water up to 5.0 m deep. It is made entirely of V4A stainless steel 1.4571 and is also electro-polished. The spotlight can be used in fresh water and chlorinated swimming pool water.

The spotlight must be protected from freezing, and the water must be free of metal corroding components.

An installation housing is required for installation and must be selected for the type of installation. Accessories (e.g. operating devices) can be supplied optionally.

Attention! Operation only underwater. Connected special cables must not be removed or shortened; longer cable lengths >3 m can be supplied.

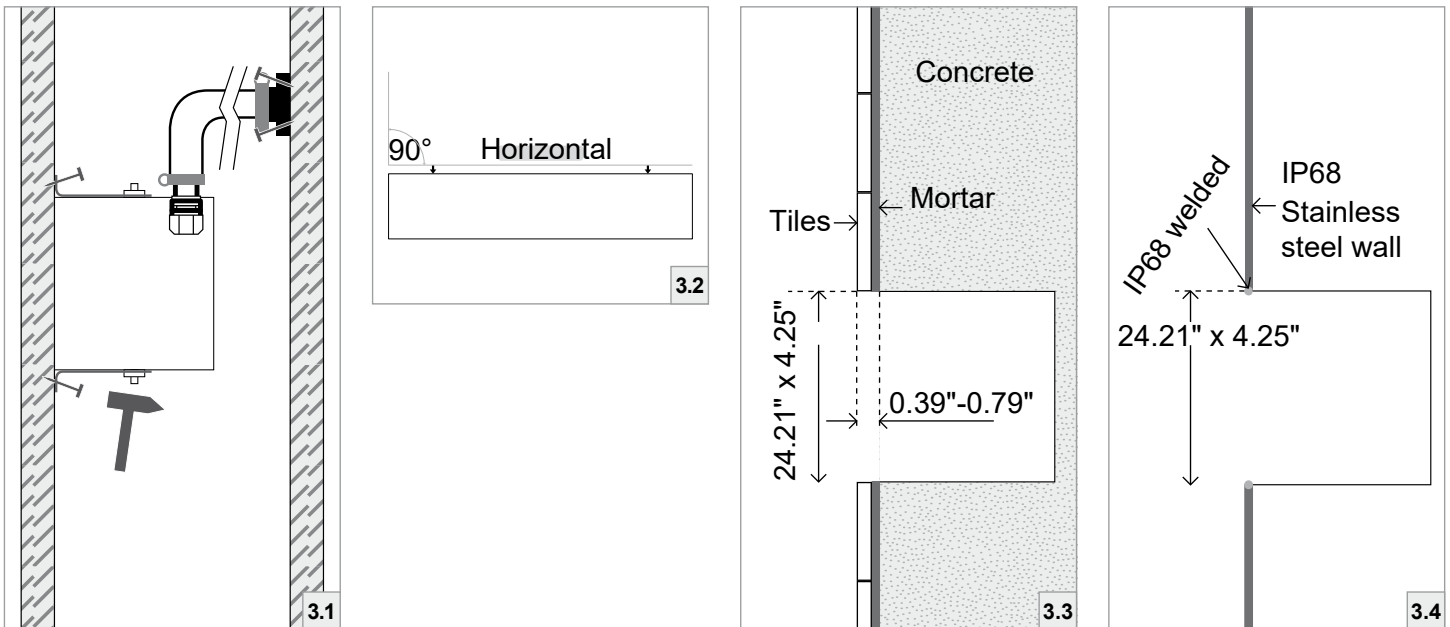
Cable connections in the installation housing or conduit are not recommended.

A surge protection unit and use of an isolating transformer for secure electrical disconnection (protective separation) are recommended for the entire technical lighting system.

- When cleaning, make sure that the lights do not come into contact with metal corroding cleaning agents. The use of acid-containing cleaning agents on or near stainless steel spotlight parts must always be avoided.
- Clean spotlights and installation housing regularly to avoid extraneous rust deposits.
- Attention: Do not use high-pressure cleaners.
- Protect light bulbs from freezing; they must be removed, if necessary, or specially protected.
- Lost screws may only be replaced by screws made of V4A.
- Depending on load (wattage) and water quality, we recommend changing the seals (on the glass pane, fitting, O-ring) and cable every 5–8 years.

4.3061 LED LINEAR IP68

Housing Installation



Installation in concrete pools

Align installation housing on the front cover (water side) horizontally and fix it with the 4 holding elements. Correct horizontal orientation (in accordance with drawing 3.2.) of the installation housing on the boarded panel is essential. Fasten plastic end piece to the rear cover. Check the installation housing, cable protective conduit, clamps and plastic end piece for firm hold. **3.1./3.2.**

After cementing it in and removing the cover, apply mortar and tiles to no more than the inside dimensions (24.21" x 4.25") of the installation housing. Maximum mortar and tile thickness 0.4"-0.79". In case of higher tile/mortar thickness, after consultation use longer fastening screws made of V4A stainless steel. **3.3.**

Installation in stainless steel pools

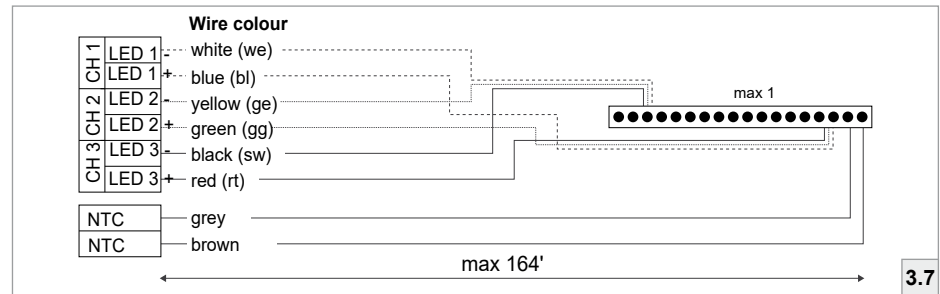
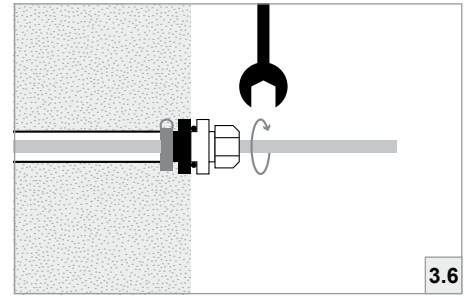
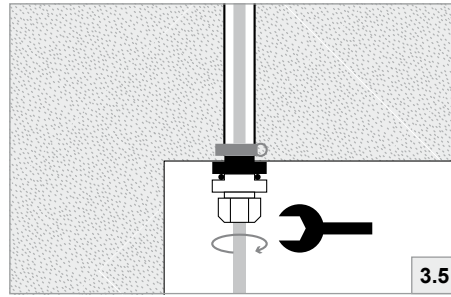
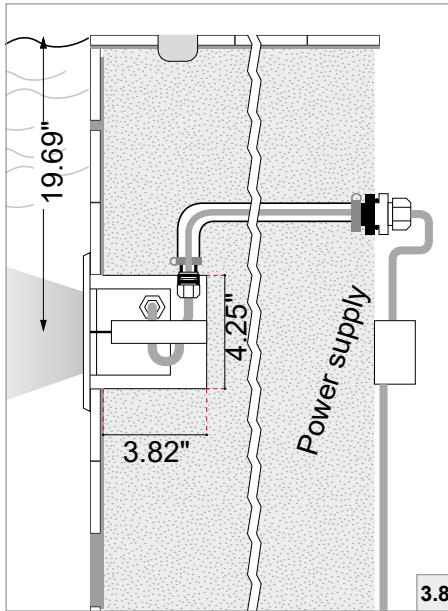
Determine horizontal positioning of the lights and cut out openings of 24.21" x 4.25" in the swimming pool wall accordingly. Align and fasten installation housing. Fasten plastic end piece at the end of the cable protection tube.

Check installation housing, cable protection tube with clamps and plastic end piece for firm hold.

Weld housing to the swimming pool wall pressure tight and then pass over the welding seam again. **3.4.**

4.3061 LED LINEAR IP68

Fixture Installation



Installing the spotlight

Guide the UW cable through the inside cable fitting of the installation housing and into the cable protection conduit and wrap approx. 4.92' of cable inside the installation housing. Tighten the cable fitting firmly to seal the cable. **3.5.**

Insert the spotlight, align and tighten it.

Screws M5x30 use for stainless steel pools and concrete pools without tiles. Screws M5x50 use for concrete pools with tiles (0.4"-0.79").

Screw the accompanying M20 plastic fitting onto the plastic end piece and tighten the lock nut so that the cable is sealed. **3.6.**

Attention:

After opening of the spotlight in order to adjust the LED board, re-tighten the cover crosswise with 2,0 Nm.

Use only cable connected at the factory. Specify desired cable length when ordering.

Connect individual wires to the power supply according to the regulations. **3.7.**

For the maximum number of lights and connection type, also see the manual of the corresponding power supply unit.

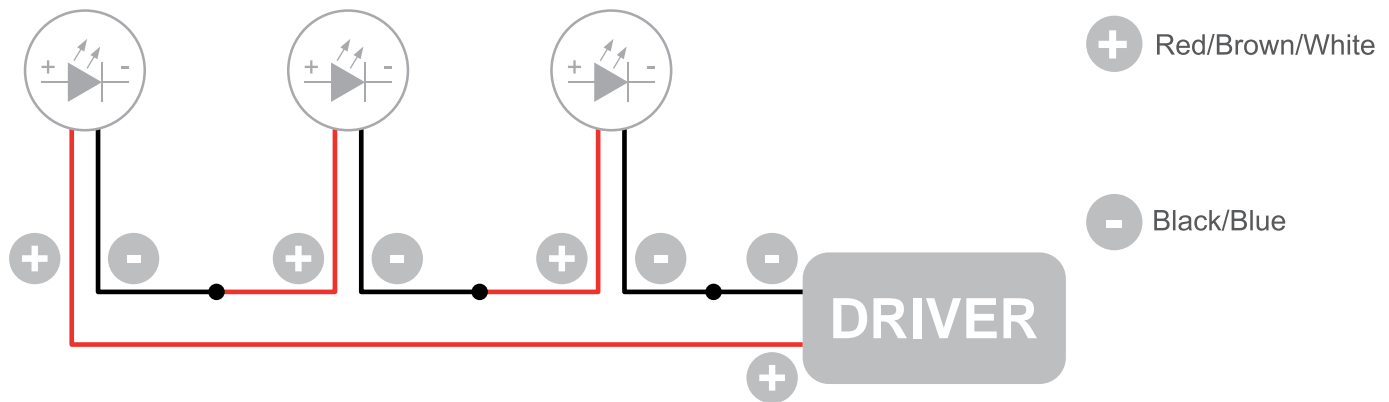
Soiling and deposits on glass or stainless steel parts must be removed with standard cleaning agents.


- It is the contractor's responsibility to install Remote Driver in a suitable electrical enclosure.

4.3061 LED LINEAR IP68

Wiring Diagram

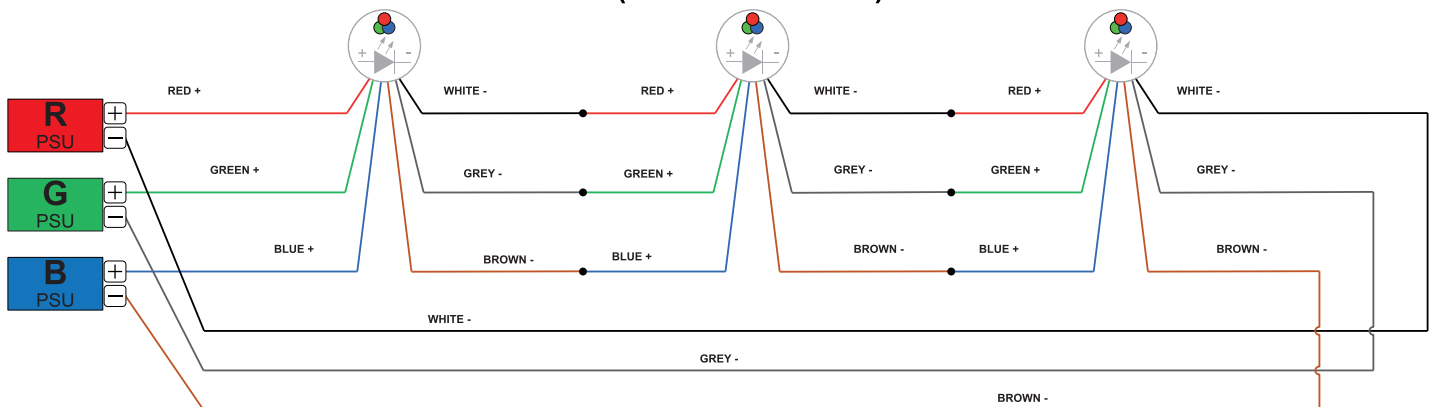
700mA
(Static White Series Connection)





 The individual lamps must be connected in series.
Only power up the system once all the lamps have been connected.

- LED lights work at constant current. When choosing a power supply unit, you need to consider the current by which the LEDs are driven and their maximum power consumption.
- 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.
- The electronic power supply is constant current, so to a certain extent it automatically compensates the voltage drop associated with cable length; however, we advise not exceeding 100 feet.
- 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.

(RGB connection)



 **FOR RGB VERSION ONLY: The individual lamps must be connected in series.**
 **Only power up the system once all the lamps have being connected.**