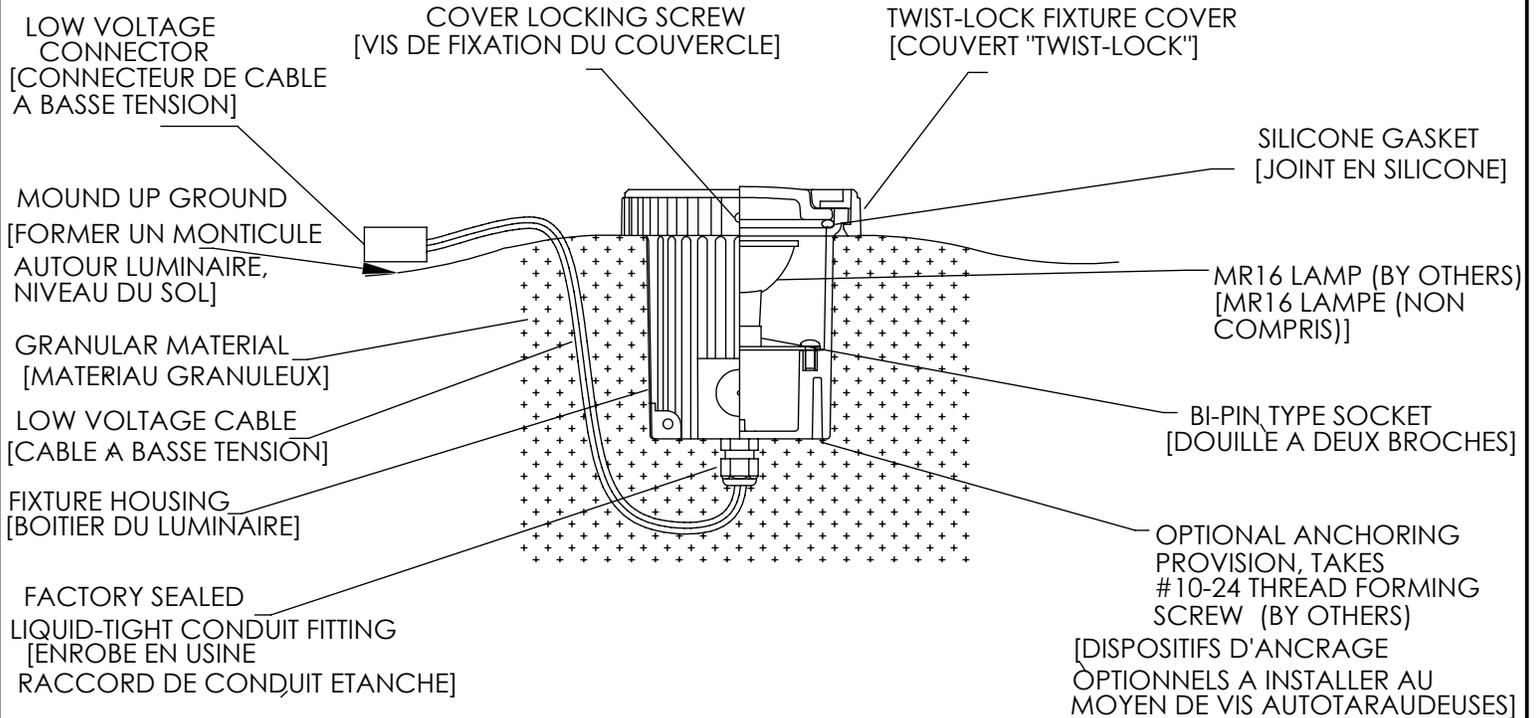


## INSTALLATION INSTRUCTIONS: 12V MICRO INGROUND



This fixture is intended for installation in accordance with the National Electrical Code and local code specifications. Failure to adhere to these codes and instructions may result in serious injury and/or damage to the ballast and void the warranty. These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency related to installation, operation, maintenance, or mounting situation. Should specific problems occur that are not addressed by these instructions, contact your Sales Representative or distributor for assistance. Retain these instructions for future reference.



**INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR INJURY TO PERSONS-IMPORTANT SAFETY INSTRUCTIONS**  
Lighted lamp is HOT! WARNING- To reduce the risk of FIRE OR INJURY TO PERSONS: Turn off/unplug and allow to cool before replacing lamp. Lamp gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure (see diagram/picture). Keep lamp away from materials that may burn. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp. Do not operate the luminaire fitting with a missing or damaged shield. SAVE THESE INSTRUCTIONS. Xenon lamps do not require additional shielding.

## CAUTION!

1. To prevent electrical shock, always turn power OFF before installing or servicing this fixture.
2. DO NOT hold fixture by, or pull, the low voltage cable. If wire is pulled, it may break the liquid tight seal and void warranty.
3. DO NOT loosen or remove the liquid tight connector. This will damage the factory set seal and result in possible leakage.
4. Do not exceed max wattage listed on label inside fixture.
5. Fixtures must not be installed in insulating materials such as vermiculite, bark, etc. for the full depth of the fixture, as they may cause the fixture to overheat and void the warranty.
6. When backfilling, housing flange should be just above ground level as shown in the illustration. Fixture housing should be surrounded by a 3" min. layer of sand or gravel to insure proper drainage. It is recommended that fixtures not be placed in low locations where water could accumulate and stand for long periods of time. Hilling up earth around fixture will promote good water run-off and prevent debris accumulation.
7. For concrete pour installation, fixture must be installed with a 4" min. bed of gravel below, and must use the CP5 accessory kit.
8. In areas with high water tables, the fixture may be anchored to prevent fixture buoyancy.
9. Regularly check lens and keep it cleared of debris (mulch, leaves, etc.) as this could cause a fire.

## SERVICING INSTRUCTIONS

1. Excavate soil for fixture placement. Contour the hole to the shape of the fixture, allowing for 3" min. around and under the fixture for placement of granular material.
2. Lamp Installation/Replacement
  - a) Loosen cover locking screw. Remove cover by turning it counterclockwise. Remove lens and o-ring.
  - b) Install specified lamp. Use a standard 12V MR16 bi-pin lamp.
  - c) To remove a lamp, pull on the lamp reflector. Do not pull on the small bulb within the reflector.
  - d) When installing a new lamp, do not touch the halogen bulb within the reflector. Natural oils from skin may cause shortened lamp life.
  - e) The o-ring seating surfaces must be clean before attempting to replace the lens, etc. Be certain that the o-ring is clean and in good condition. Re-install o-ring.
  - f) Re-install lens and fixture cover. Look through (3) slots in top of cover, hand tighten cover by turning clockwise until the (3) tabs on the cover touch the stops on the housing.
  - g) Tighten the cover locking screw in place.
3. Make certain there is no water or moisture inside the fixture prior to re-assembly.
4. The lens will require periodic cleaning. Wipe off the outside of the lens with a soft cloth. DO NOT use abrasive cleaner. This may damage the lens.

## LOW VOLTAGE CABLE CONNECTOR INSTRUCTIONS

Low voltage cable connector to be used with 10 or 12 gauge supply cable and 18 gauge fixture cable. Philips recommends using SPT-3 water resistant (marked "WA", "W" or similar marking) supply cable such as our SCW500-10/BSCW500-10 or our SCW100-12/BSCW100-12. Philips also recommends ordering the entire system, which includes the power console (maximum 25 Amps, 15 Volts per circuit), fixture(s) (low voltage cable connector included) and supply cable to ensure proper installation and operation.

When using our supply cable, it can be laid on top of the ground, placed under "ground cover" (that is, shallow burial less than 6 inches or 15.2 cm deep), or directly buried in accordance with the NEC. If not using our cable, per UL 1838-Standard for Low Voltage Landscape Lighting Systems, the secondary cable must be SPT-3 or suitable for wet locations, sunlight resistant and direct burial per UL 493 and sized per UL 1838, and it must be buried less than 6 inches (15.2 cm).

Philips recommends a minimum depth of 4 inches when burying in the lawn to prevent damage from aerators or other lawn plugging equipment.

The 18 gauge fixture cable (provided with fixture) must be protected by routing in close proximity to the fixture or secured to a building structure such as a house or deck. The fixture cable must be cut off so that it is connected to the low voltage cable connector within 6 inches (15.2 cm) of the fixture or the building structure. When making an underground connection to the 10 or 12 gauge supply cable (not provided), the fixture cable must not be buried more than 6 inches (15.2 cm).

WARNING-Mount the luminaire in or on non-combustible mounting surfaces only.

WARNING-Risk of Electric Shock. Install all luminaires 10 feet (3.05m) or more from a pool, spa, or fountain.

1. Connect the supply cable to the terminals on the power console (transformer) and turn ON.
2. Disassemble the connector by removing the Phillips head screw.
3. Inspect the connector to ensure the prongs are straight. If the prongs are bent, straighten with pliers.
4. Insert the end of the fixture cable into the square opening in the connector body. Bend wire over so that wire is laying in the recess marked '18 GA'. This will help hold the wire in place while performing steps 5 and 6. Only 2-wire cable is to be used and the common (smooth) wire and hot (ribbed) wires must be oriented as shown.
5. Press the supply cable into the recess marked '10,12/2 GA' on the connector body. Again the common (smooth) wires and the hot (ribbed) wires must be oriented as shown.
6. Press the connector cover onto the connector body, making sure the screw holes line up with each other.
7. Assemble the connector by tightening the Phillips head screw. NOTE: Make sure the metal prongs in the connector pierce all 4 wires; the fixture will light as the prongs pierce the wires.

