

SGM SAFETY INFORMATION

MOVING HEADS - STATIONARY LIGHTS STANDARD & POI



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Revision B



READ CAREFULLY!

Review the following safety precautions carefully before installing or operating the device.



SGM luminaires are not suitable for household use. They are intended for professional use only. Les luminaires SGM sont impropres à l'usage domestique. Uniquement à usage professionnel.



DANGER! *Risk of electric shock. Do not open the device.*

- Do not open the device; there are no user-serviceable parts inside.
- Ensure that power is cut off when wiring the device to the AC mains supply.
- Ensure that the device is electrically connected to earth (ground).
- Do not apply power if the device or mains cable is in any way damaged.
- Do not immerse the fixture in water or liquid.



WARNING! *Take measures to prevent burns and fire.*

- Install in a location that prevents accidental contact with the device.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.3 m (12 in.) around the cooling fans (if applicable).
- Do not paint, cover, or modify the device, and do not filter or mask the light.
- Keep all flammable materials well away from the device.
- Allow the device to cool for 15 minutes after operation before touching it.



WARNING! *Take measures to prevent personal injury.*

- Do not look directly at the light source from close range.
- Take precautions when working at height to prevent injury due to falls.
- For Permanent Outdoor Installations (POI), ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For a temporary installation with clamps, ensure that the quarter-turn fastener and/or M-10 screws are turned fully, and secured with a suitable safety cable.
- For elevated installations, secure the fixture with suitable safety cables, and always comply with relevant load dimensioning, safety standards and requirements.
- The standard safety wire cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture.



WARNING! LI-ION Battery.

Misusing the battery may cause the battery to get hot, rupture, or ignite, and cause serious injury. Make sure to follow the safety informations listed below:

- Do not put the battery in fire, attempt to heat it, or use it in a high temperature environment.
- Do not install the battery backwards with reversed polarity.
- Do not connect the positive terminal to the negative terminal of the battery with any metal object (such as a wire).
- Do not carry or store the battery together with necklaces, hairpins, or other metal objects.
- Do not pierce the battery with nails, strike the battery with a hammer, step on the battery, or otherwise subject it to strong impacts or shocks.
- Do not expose the battery to water or salt water, or allow the battery to get wet.
- Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, rupture or ignite.
- Do not place the battery on or near fires, stoves, or other high-temperature locations. Do not place the battery in direct sunlight. Doing so may cause the battery to generate heat, rupture, or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
- Do not place the battery in microwave ovens, high-pressure containers, or on induction cookware.
- Immediately discontinue use of the battery if, while using, charging, or storing, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.
- Only charge the battery mounted in the fixture with the built-in charger. Do not use a third party charger.
- Do not charge unattended.
- Only charge the battery if the surrounding temperature is in the range of +5 to +35°C (41° to 95°F). Charging the battery outside of this temperature range may cause the battery to hat up or break. It may also harm the performance of the battery or reduce the battery's life expectancy.
- Do not replace the battery in the fixture with other types of rechargeable batteries.
- Do not replace the battery in the fixture with non-rechargeable batteries, such as dry-cell batteries etc.
- When the battery is worn out, insulate the terminals with adhesive tape or similar materials before disposal.
- Follow applicable laws and regulations for transport, shipping, and disposal of batteries. For details on recycling lithium, lithium-phosphate, and lithium-ion batteries, please contact a government recycling agency or your waste-disposal service.

This warning applies to all SGM battery-driven products, due to the inside LI-ION battery.

Quick Installation Guide

This leaflet is merely a quick installation guide for SGM moving head and SGM stationary lights, containing important safety information. For detailed information, please always consult the user manual of the product, available for download at www.sgmlight.com.

Unpacking

Unpack the device and inspect it to ensure that it has not been damaged during transport.

Connecting AC power

Please check the product label of the fixture to get the correct voltage range.

Connect the fixture to AC power by mounting a power connector to the bare ended mains cable using the power cable coding given in the table below:

- Connect the black wire to live
- Connect the white wire to neutral
- Connect the green/yellow wire to ground (earth)




Wire	Color	Symbol	Conductor
	Black	L	live
	White	N	neutral
	green/yellow	\perp or \oplus	ground (earth)

Figure 1: Connecting AC Power

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

For temporary outdoor installations, the mains cable must be fitted with a grounded connector intended for exterior use. For permanent installation have a qualified electrician to wire the mains cable directly to a suitable branch circuit. When installed, we recommend to keep SGM fixtures powered on, so the dehumidifiers perform properly. The junction's ingress protection (IP-rating) must be suitable for the location.

After connecting a fixture to power, run the on-board test by selecting TEST → AUTOMATED TEST in the menu, to ensure that the fixture and each LED are functioning correctly (standard products only). Check the user manual for more information about the control panel menu (POI n.a.).

NOTE: when using power link connection, make sure the maximum power capacity is not exceeded in order to avoid short-circuit and damaging of the fixture.

CAUTION!!

Do not connect the fixture to an electrical dimmer system, as doing so may cause damage.

Connecting to a DMX control device

The fixture is controllable using a DMX control device, and it can be connected using either a DMX cable or via the fixture's built-in CRMX wireless receiver system, if included.

When using a cabled DMX system, connect the DMX-In cable to the input connector and DMX-Out cable to the output, both located on the rear of the fixture's base (male and female 5-pin XLR plugs). For outdoor events, use at least IP65-rated XLR connectors. Remember to terminate the DMX-Out cable of the last fixture in the data link.

If using a wireless DMX system, remember to connect or cover any unused DMX-In and DMX-Out connectors in order to maintain the fixtures' IP rating.

For POI versions, please refer to next pages to see how to connect to DMX.

NOTE: SGM fixtures provide a passive DMX Thru signal as DMX Out, instead of an active output signal.

POI Permanent Outdoor Installation

The POI versions are designed for permanent outdoor installation and have a higher ingress protection. With a C5-M corrosion resistance class, the POI versions are specially designed for use in maritime and offshore environments.

Physical differences

The POI version differs from the standard version by having fixed-chassis power and DMX cables and heavy-duty cable glands. The display, RFID, and control panel have been removed.

Configuration

The POI version is configured exclusively via RDM (Remote Device Management). Thus, the DMX start address, DMX mode, etc. are configured either using an external RDM controller, or via the SGM RDM Addressing tool. All DMX charts are available at sgmlight.com under the respective products, or upon request via support@sgmlight.com.

LED indicator

The POI fixtures have an LED indicator that shows the current status of the fixture. The LED indicator is usually located in the base, in the yoke, or at the top of the fixture's head (depending on the type of fixture). The LED indicator can have three possible colors in three possible stages: static, flashing, or off.

- **Static/flashing green:** fixture is powered on and/or receiving DMX signal.
- **Flashing orange (when using a magnet):** fixture is connecting to / disconnecting from an external wireless transmitter.
- **Static/flashing red:** an error message is stored; review via the SGM RDM Addressing Tool, reboot the fixture, or contact SGM support for diagnostic help.
- **Off:** fixture is off or indicator LED is set to auto dimming.

POI Quick Installation Guide

Connecting DMX and AC power

DMX in and DMX out are in the same cable. See more about the SGM POI DMX Cable in the picture on the right.

Power is wired as the standard version. See “Connecting AC power” on page 4.

For permanent installations, have a qualified electrician to wire the mains cable directly to a suitable branch circuit. POI products must always be powered on, so dehumidifiers perform properly. The junction’s ingress protection (IP) rating must be suitable for the location.

For a temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

SGM POI DMX Cable

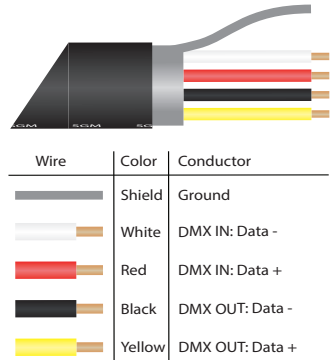


Figure 2: POI DMX Cable

POI Connection Diagram

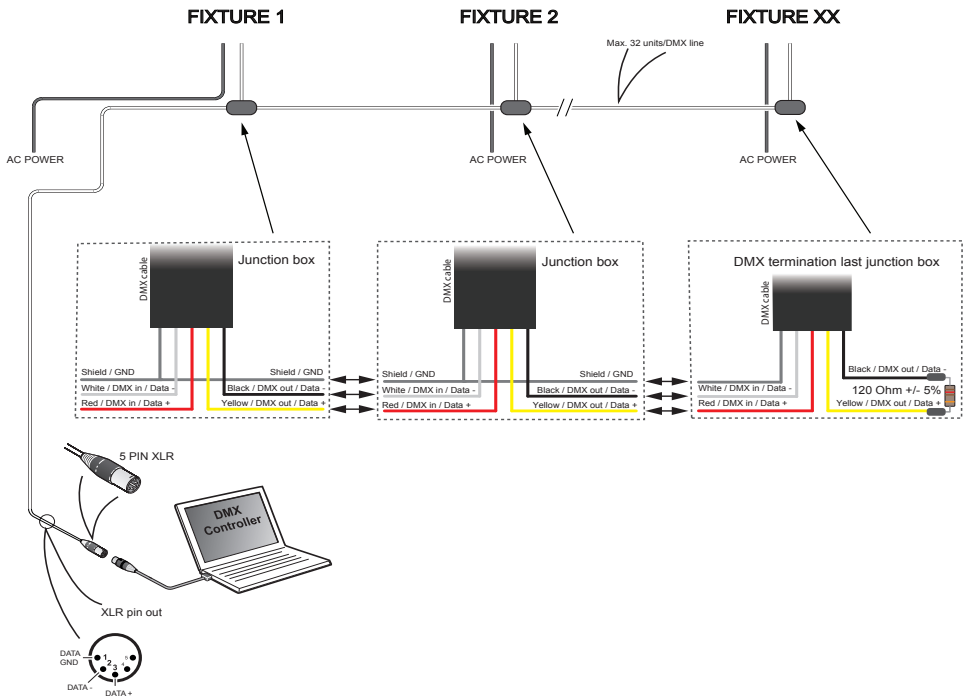


Figure 3: Connection Diagram for SGM POI products

POI Spanner

All the static POI products include a spanner with magnet, whose function is to establish connection between the fixture and the wireless transmitter. The spanner also has two types of pig-nose keys used for tilt adjustment in POI fixtures. Depending on type of fixture, it is used either the large or the small pig-nose keys.

Connecting a wireless transmitter to a POI fixture

In POI versions with wireless mode it is necessary to pair the fixture with a new transmitter (by default the device is linked to the SGM factory transmitter).

In order to do so, take the POI Spanner and place the magnet close to the LED indicator for 3 seconds. The LED indicator will blink orange before switching to green. The fixture can now be paired to a new transmitter. Go to the wireless transmitter and press “connect” or “link”. Now the third-party transmitter and the internal SGM receiver should be linked together.

To link the fixture to another transmitter, repeat the process.

Disconnecting a wireless transmitter from a POI fixture

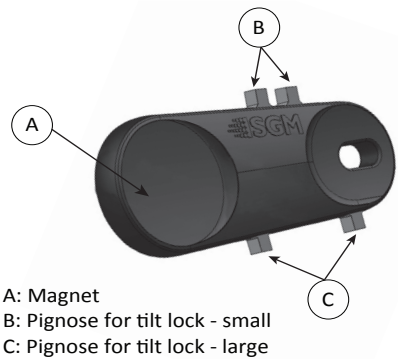
To disconnect a POI fixture from the currently paired wireless transmitter, simply hold the magnet over the LED indicator. The LED blinks orange for 3 seconds and then it changes to green. The fixture is now logged off.

Locking points for installation and rigging

All SGM luminaries have locking points in the base for installation and rigging. The standard products include 1/4 turn fasteners camlocks to mount the omega brackets, while the POI products come with M-10 nuts for M-10 screws.

In both standard and POI fixtures, the distance between the points from center to center is always 106 mm.

Fully detailed dimension drawings of the base are available upon request via support@sgmlight.com.



- A: Magnet
- B: Pignose for tilt lock - small
- C: Pignose for tilt lock - large

Figure 4: POI Spanner

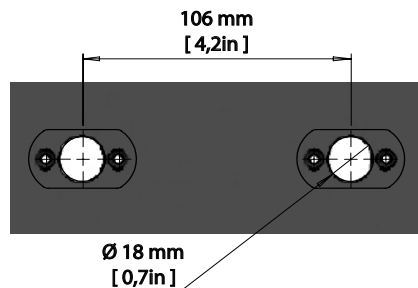


Figure 5: Locking points



Support hotline

SGM offers 24/7 technical support hotline.

Worldwide: +45 3840 3840

US: +1 877 225-3882

support@sgmlight.com



SGM Light A/S

Sommervej 23

8210 Aarhus V

Denmark

Tel: +45 70 20 74 00

info@sgmlight.com

www.sgmlight.com