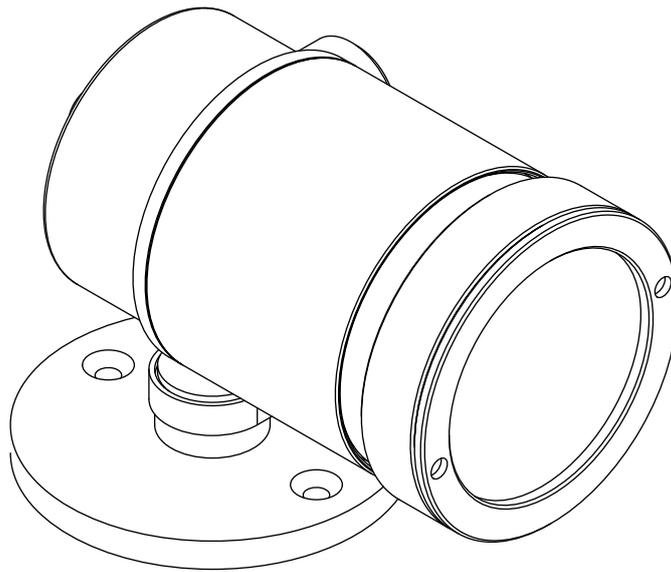


# Frog X Zoom

## Installation and Maintenance Instructions



**IMPORTANT: All wiring connections must be made before switching on mains power.**

 Xicato LED Module

 This product should not be disposed of in your general waste

 Please retain these instructions for future reference

 Class III - Extra Low Voltage

**IP66** Dust tight and protected against powerful jets of water.

 European Conformity

## Electrical Supply

Installation must be carried out by a qualified electrician in accordance with BS 7671:2008 Wiring Regulations. 230/240V AC 50/60Hz mains supply to a suitable SELV LED Driver.

Site conditions: LED equipment is more susceptible to static damage and overvoltage than previous technology. Before handling or connecting to the mains supply ensure that all MSL products are protected from static discharge and that the mains supply is to regulation. (230V +10 -6%)

This fitting is supplied with a Xicato LED module. Refer to the fitting label for the module version and wattage. More information on the module can be found at [www.xicato.com/support](http://www.xicato.com/support)

Mains cables must be double insulated, strain relieved and separated from E.L.V output cables.

**This unit requires a constant current driver. 700mA Max.**

**Observe polarity:  
Positive (+) is marked as RED.  
Incorrect supply or reverse polarity can cause irreparable damage.**

**All connections must be made before switching on mains.** If the supply is energised prior to making the connections to the fitting then the resulting surge will damage the LED.

All lighting equipment is delicate and easily damaged through misuse or inappropriate installation (mechanical or electrical). Repairs and replacements may cause delays and will be chargeable. Contact MSL for support if required. For full warranty terms & conditions please visit our website.

The IP rating stated is applicable only when the fitting has been installed as per these instructions.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

The entire dimming control circuit source must be of SELV insulation class.

Care must be taken when handling any ingress protection seals, glands or "O" rings to ensure they are kept clean, unblemished and replaced exactly in their required location and suitably fastened home.

## Installation

Check that the mounting surface is suitable for the installation of this fitting.

A 30mm diameter hole is required for cable routing with a waterproof connector. If a 'bay bar' is supplied, a 56mm diameter hole is required.

**Step 1** Make mains connections to SELV LED driver and extra low voltage connections to the fitting.

**Step 2** Secure fitting in place using two suitable screws or 'bay bar' if it is supplied.

If using a 'bay bar', slide it into the hole and secure the fitting using the supplied screws.

Ensure supply driver and connectors are housed indoors OR in a suitably IP rated enclosure. Cable ends must be suitably waterproofed. Inspect supply cables before installation to ensure there is no damage which will allow water to enter the fitting.

After opening the sealed portion of the luminaire for any reason, MSL recommends running the fitting for 15 minutes with the lid open to expel moisture before closing it up. This will prevent condensation on the lens and protect the fitting from corrosion.

**WARNING: Do not look at exposed LED lamps in operation. Eye injury can result.**

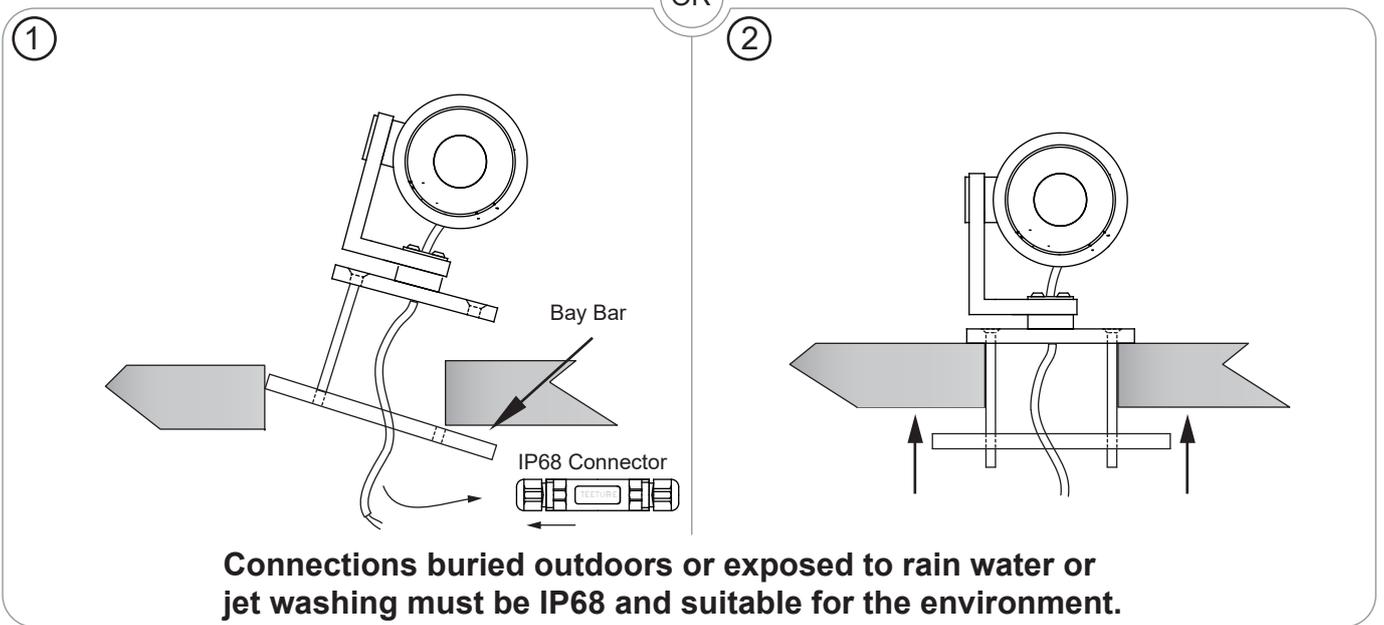
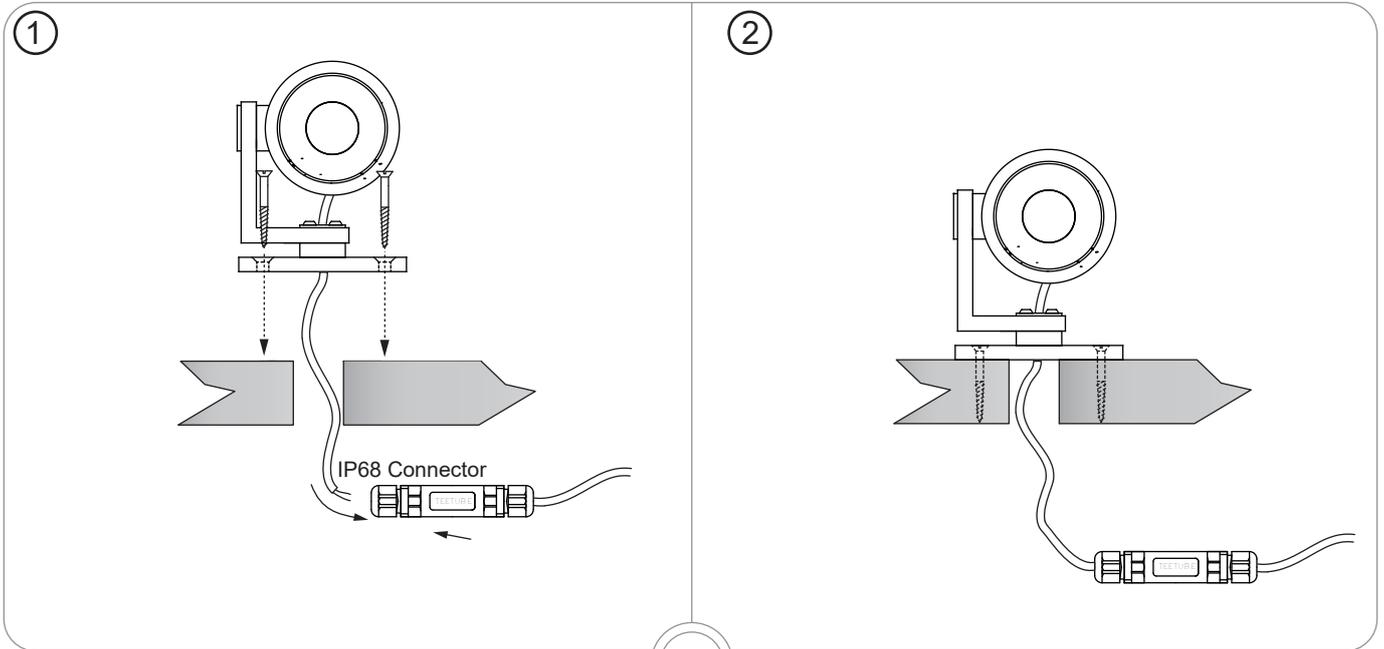
Additional items should not be hung or suspended from this fitting. MSL takes no responsibility for additional items added by others or the consequences of those items.

## Cleaning:

Fully isolate the fitting and allow to cool.

Clean the fitting with a slightly damp lint free cloth from a mild solution of soap and water. The fitting must be completely dry before reconnecting power.

Incompatible or abrasive chemicals can damage the fitting, contact MSL for advice if required.



**Beam Control**

To Widen beam turn knurled bezel clockwise to tighten bezel into fitting.

To tighten beam turn knurled bezel anti-clockwise.

Do not unwind to the point that the internal o-ring becomes visible.

**ADJUSTMENT**

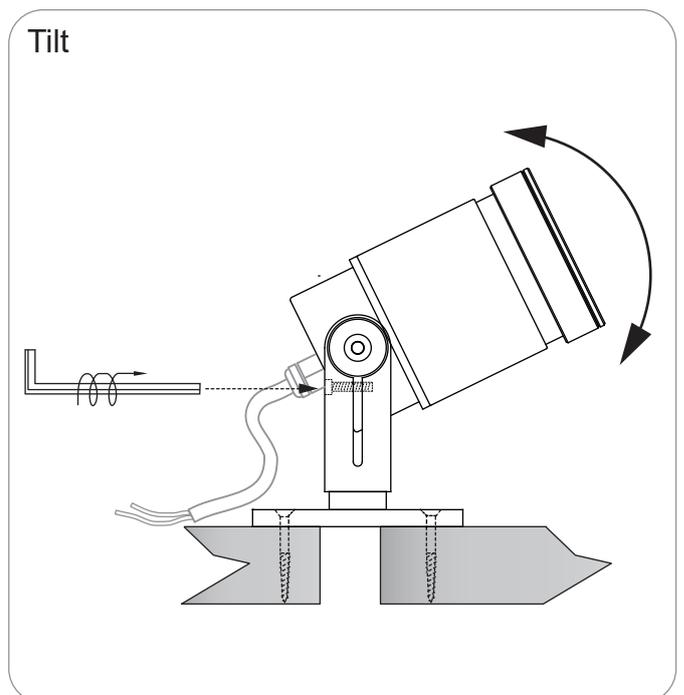
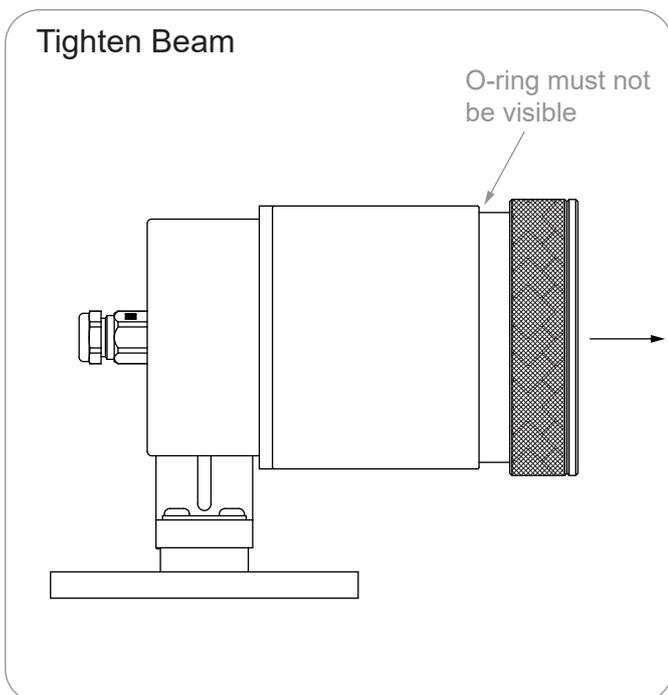
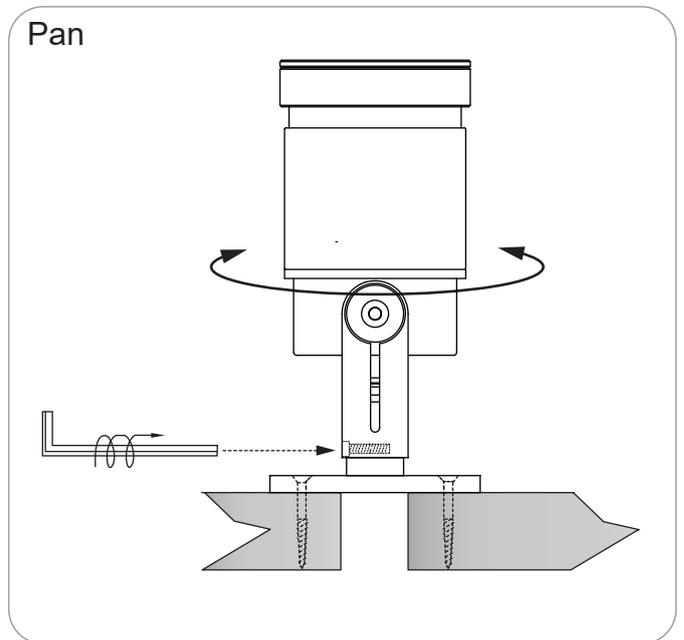
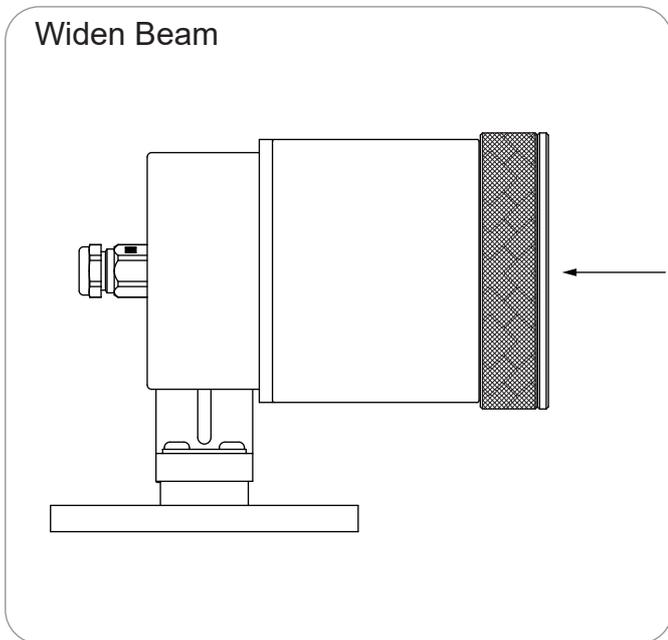
To adjust the tilt and pan of the fitting use an Allen key to loosen off the tilt and pan lock screws.

Frog X: 2.5mm Allen key

Once the desired angle is achieved lock off the screws.

**DO NOT** over tighten the screws as this could damage the lock and cause it to no longer function.

**WARNING:** Do not look at exposed LED lamps in operation. Eye injury can result.



## MODULE AND ACCESSORIES

The fitting uses a Xicato LED module. The colour temperature and lumen output can be found on the product label on the fitting.

To Add/Remove accessories:

Isolate the fitting from the supply and allow to cool.

**Step 1** Remove the bezel from the lamp tube by unscrewing in an anti-clockwise direction with the supplied opening tool.

**Step 2** Insert/remove any accessories or optic.

This fitting takes two accessories, if only a single accessory is required, a spacer (supplied) should be used to hold the accessory in place.

**Step 3** Refit the bezel by rotating it on in a clockwise direction with the supplied tool until it is fully home.

