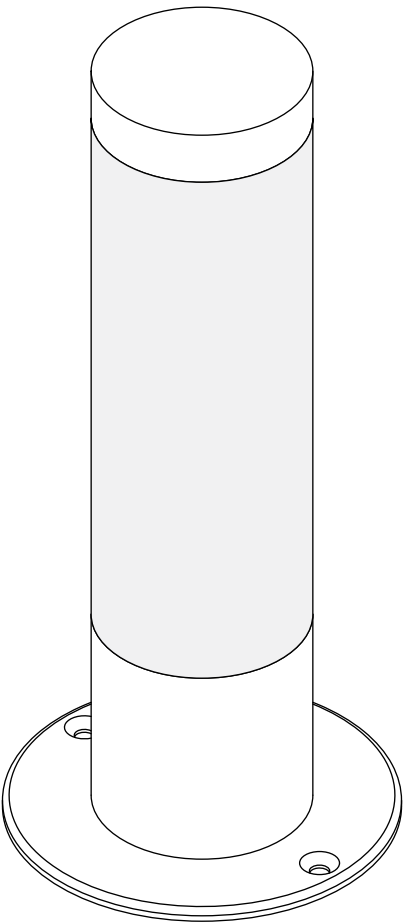


**STOANE LIGHTING**

EQUIPMENT DESIGN + MANUFACTURE

# Surface Mounted Bollard

## Installation and Maintenance Instructions



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



MSL Star 2.8V<sub>F</sub> 1W @ 350mA



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

Mike Stoane Lighting Ltd  
20 Dryden Road Bilston Glen Ind Est.  
Loanhead Midlothian EH20 9LZ UK

T: +44 (0) 131 440 1313  
F: +44 (0) 131 440 0049  
sales@mikestoanelighting.com

www.mikestoanelighting.com  
VAT No GB682885284  
Limited Company 188910

## 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%)

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

**This unit requires a constant current driver. 350mA 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.

Multiple LEDs should be wired in series, refer to driver instructions for minimum/maximum load.

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.

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.

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.

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

Step 2 Secure the fitting to the mount surface with 2 suitable fixings.

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.**

## 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.

Warning: Acrylic is a **fragile** material, handle with care.

Never attempt to clean acrylic with anything other than a mild solution of soap or detergent and water.

Acrylic is susceptible to chemical attack, seriously compromising structural integrity if incompatible solutions are used.

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