

## BOLLARD LUMINAIRES INSTALLATION INSTRUCTIONS

**NOTE:** THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE.

The secondary wiring supplied with this light fixture is intended for shallow burial - less than 6" (152mm). Do not install this light fixture within 10 feet (3 mtr.) of a pool, spa or fountain.

**BOLLARD 300** - is simple and easy to install as it has a spike on the bottom which can be pushed into the ground where ever you desire light. Place the Bollard on the ground where you wish to install it and then run the low voltage cable from the transformer to the Bollard(s), each cable connection must be waterproof using heavy walled, adhesive lined heat shrink to prevent water leaking into the cable joint. Once this is completed stand the Bollard(s) up and push into the ground.

**BOLLARD 700** - Run the low voltage cable from the transformer to the bollard(s). Make a slurry of concrete, make sure there is at least 19<sup>3/4</sup>" of low voltage cable protruding out from the concrete slurry. Unscrew the grub screws and remove the bottom section of Bollard below the lamp holder section and pull the low voltage cable through it, push it into the concrete so that the drain hole is not covered, making sure that it is in a vertical position before the concrete sets. Make a waterproof connection using heavy walled adhesive lined heat shrink, between the lamp holder section to the low voltage cable protruding from the bollard pole. Assemble the lamp holder section onto the bottom section, secure with stainless steel grub screws.

### BOLLARD 300 and 700 FLANGE MOUNT

Remove stainless steel grub screws and detach end cap. Apply silicon around the 1" hole in the bottom of the end cap and mount end cap to deck/tiles etc, using stainless steel screws provided. Connect luminaire making a waterproof connection using heavy walled adhesive lined heat shrink, to the low voltage cable. Secure the luminaire to the end cap using the stainless steel grub screws provided.

### Recommendation:

Run all low voltage cables in flexible conduit for extra protection.  
It is recommended that high quality lamps are used when replacing lamps.

**WARNING:** Take care to place luminaire in a suitably safe position due to operating temperature of luminaire.

## LAMP CHANGING

**CAUTION:** Make sure that the power to the luminaire is switched off before attempting to change the lamp. Beware of hot luminaire and lamp. Make absolutely sure when changing lamps that the correct wattage lamp is installed.

### Lamp Changing Sequence (MR16)

Unscrew Bollard pole with lens attached. Remove lamp retaining clip. Pull lamp forward until the ceramic lamp holder appears. Hold lamp holder in one hand and remove lamp with other hand very carefully. Do not touch the glass capsule in the middle of the reflector when pushing the lamp back into the ceramic lamp holder. Replace lamp retaining clip and screw Bollard pole onto body section.

**Stainless Steel Maintenance:** To maintain the finish of 316 stainless steel it is recommended to wash the luminaire with water from time to time to stop salt and corrosive elements building up. If tea staining appears, a commercially available stainless steel cleaner is recommended to remove this.

### 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!

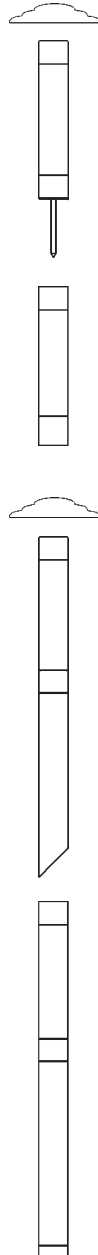
Contact only switch/plug when turning on.

**DO NOT** touch hot lens, guard or enclosure.

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 lens.



## BOLLARD RETRO™ LUMINAIRES INSTALLATION INSTRUCTIONS

**NOTE:** THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE MUST BE INSTALLED BY A LICENCED ELECTRICIAN

Make a slurry of concrete, make sure the conduit is protruding out of the concrete slurry and there is at least 19<sup>3/4</sup>" of cable protruding out of the conduit. Unscrew the grub screws and remove the bottom section of tube below the lamp holder section and push it into the concrete slurry no more than 6" (150mm), over the conduit and pull the cable through the tube. Make sure that there is concrete in the bottom of the pole and that the pole is vertical before the concrete sets. There must be concrete in the bottom of the tube to stop moisture build up. Unscrew the orange PVC connection on the bottom of the lamp holder section and slide it over the 110/120 volt supply cable. Connect the phase (active) wire to the BLACK wire of the luminaire and neutral wire to WHITE wire of the luminaire. Screw the orange PVC connection back onto the orange nipple of the luminaire and fit the lamp holder section onto the tube using the stainless steel grub screws provided.

### BOLLARD 700 RETRO FLANGE MOUNT

Remove stainless steel grub screws and detach end cap. Apply silicon around the 1" hole in the bottom of the end cap and mount end cap to deck/tiles etc, using stainless steel screws provided. Unscrew the orange PVC connection on the bottom of the lamp holder section and slide it over the 110/120 volt supply cable. Connect the phase (active) wire to the BLACK wire of the luminaire and neutral wire to WHITE wire of the luminaire. Secure the luminaire to the end cap using the stainless steel grub screws provided. **Stainless Steel Maintenance:** To maintain the finish of 316 stainless steel it is recommended to wash the luminaire with water from time to time to stop salt and corrosive elements building up. If tea staining appears, a commercially available stainless steel cleaner is recommended to remove this.

**DO NOT** use a trailing edge ac. dimmer control. Only a leading edge dimmer unit is suitable. **DO NOT** connect in close proximity to inductive loads. eg. air conditioning systems, water pumps etc. without appropriate mains filtering. Use a suppression interface module for every six luminaires connected to the circuit.

**DO NOT** push the luminaire more than 6" (150mm) into concrete slurry.

**DO NOT** carry out a Megger or insulation test on a circuit with a luminaire connected to it.

**DO NOT** connect to a circuit that has an electronic soft start motor starter on it.

**DO NOT** connect to a Clipsal C-Bus2, or any other System type without using a suppression interface module.

**WARNING:** Take care to place luminaire in a suitably safe position due to operating temperature of the luminaire.

**NOTE:** Due to the nature of electronics, the ambient temperature of the installation location must be considered carefully as the luminaire may not operate reliably at temperatures below -18°F (8°C)

## LAMP CHANGING

**CAUTION:** Make sure that the power to the luminaire is switched off before attempting to change the lamp. Beware of hot luminaire and lamp.

### Lamp Changing Sequence (MR16)

Only use open faced lamps, not glass covered lamps. Unscrew lens ring, remove gasket and lens. Pull lamp forward until the ceramic lamp holder appears. Hold lamp holder in one hand and remove lamp with other hand very carefully. Do not touch the glass capsule in the middle of the reflector when pushing the lamp back into the ceramic lamp holder.

