



# THE POND MASTERS GUIDE TO POWERSAFE 2/3/4/5 OUTLET SWITCHBOXES

Congratulations on buying a Blagdon Powersafe Switchbox. The Powersafe range of switchboxes has been specifically designed to protect your pond equipment from failure. Each individual double pole switch gives total electrical isolation when switched off. Each switch features the unique at-a-glance power status indication system, which enables quick identification of power on, power on standby and power failure due to a blown fuse. Each switch has an individual fuse to provide overload protection ensuring that even if one or more items of equipment fail, the other essential pond equipment is still able to function.

## IMPORTANT

Please attach proof of purchase to this manual and file in a safe place.

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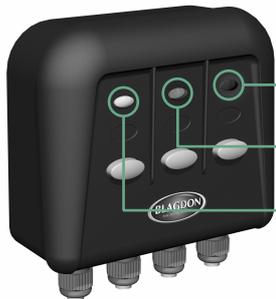
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## GETTING TO KNOW YOUR POWERSAFE SWITCHBOX

| Part Description                    | Spare Code | Part Description           | Spare Code |
|-------------------------------------|------------|----------------------------|------------|
| Cover locating screws (set of four) | 1040372    | 5 AMP fuse                 | 1040433    |
| Fixing bracket                      | 1040389    | 1.5 AMP fuse               | 1040440    |
| Fixing bracket screws and plugs set | 1040396    | Cable clamp and screws     | 1040457    |
| 2/3 switch cover seal               | 1040402    | Central PCB locating screw | 1040464    |
| 4/5 switch cover seal               | 1040419    | Rubber switch cover button | 1040471    |
| Cable gland rubber seal and plug    | 1040426    |                            |            |

## TECHNICAL SPECIFICATION CHART

| SWITCHBOX   | 2 WAY    | 3 WAY    | 4 WAY    | 5 WAY    |
|---|----------|----------|----------|----------|
| Voltage   | 220/240V | 220/240V | 220/240V | 220/240V |
| Hertz   | 50/60    | 50/60    | 50/60    | 50/60    |
| Safety rating   | IP56 CE  | IP56 CE  | IP56 CE  | IP56 CE  |
| Maximum cable size<br>External diameter (3 core 1.5 flex) | 9mm      | 9mm      | 9mm      | 9mm      |
| Maximum power output 1                                    | 1000W    | 1000W    | 1000W    | 1000W    |
| Maximum power outputs 2-5                                 | 1x300W   | 2x300W   | 3x300W   | 4x300W   |



### Power status indicator lights

#### NO LIGHT

Switch on or off. Fuse has blown, no power.

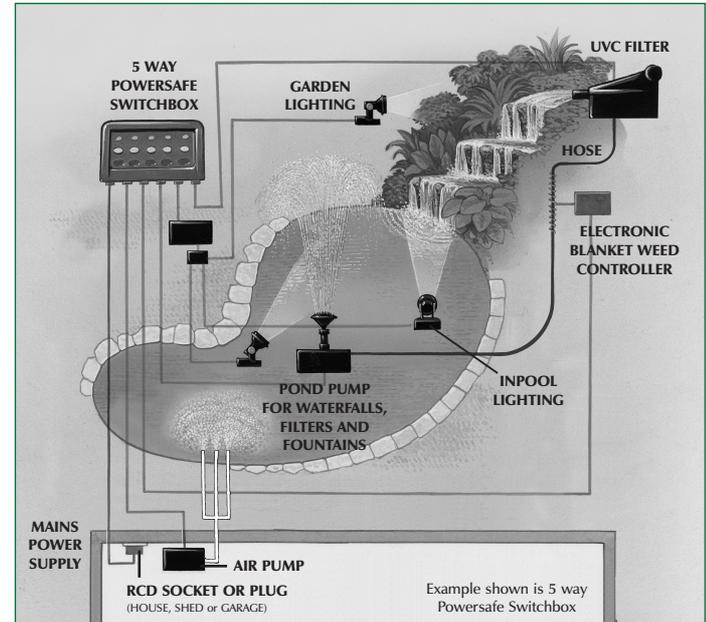
#### RED LIGHT

Switch off, power supply on standby.

#### GREEN LIGHT

Switch on, power supply active.

## INSTALLATION



**IMPORTANT:** This outlet box is intended to be used with either a weatherproof cable connector or permanently connected to the fixed wiring of the mains system other than by means of a plug and socket. A Residual Current Device (RCD), also known as Residual Current Circuit Breaker (RCCB), having a tripping current not exceeding 30mA must be installed in the supply circuit.

This unit should be connected to a mains supply that is fused with a 13 amp fuse or 15 amp circuit breaker.

**IMPORTANT:** Do not drill or modify the product in any way! Do not use the product if it is damaged.

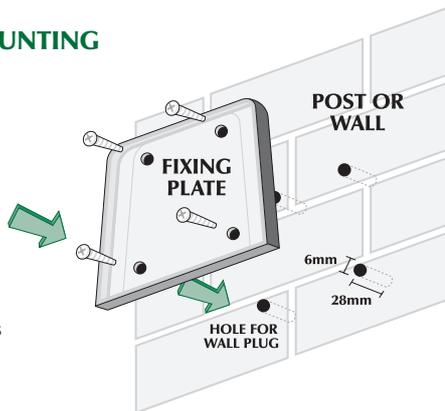
## INSTALLATION

**IMPORTANT:** Please note all electrical work on garden lighting and power installations must comply with part P of the building regulations. Failure to comply is a criminal offence. If the installation of this product is not carried out by a competent electrician who is registered under the Part P self-certification scheme then you must notify the local building control department before work begins. For further information and guidance on this matter and other electrical installations in your home that might be covered by the relevant legislation, contact your local authorities building control department.

### SWITCHBOX MOUNTING

The Switchbox should be situated in a site that is protected from:

- Flooding
- Extreme heat
- Physical damage
- Tampering by adults children or pets



### INSTALLATION STEP BY STEP

**IMPORTANT:** Before removing the cover for wiring or adding additional appliances to the Switchbox always ensure that the mains power supply is off and isolated.

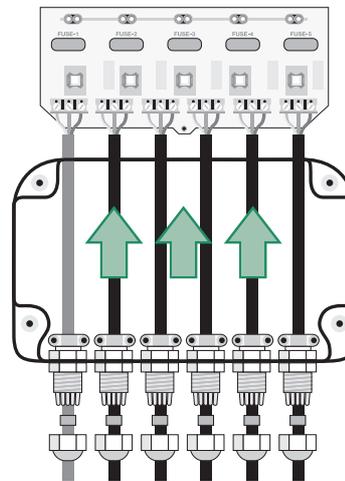
#### Remove the Switchbox from the mounting bracket.

Unscrew the four screws at the back of the box to remove the Switchbox cover. Place in a safe location.

## INSTALLATION

### CIRCUIT BOARD REMOVAL

Remove the circuit board by unscrewing the locating screws and wire each appliance before replacing and locating into the box.



1. Prepare the cable (see cable preparation diagram - inside front cover). A maximum external cable diameter of 9mm is permitted.

**IMPORTANT:** Please note that the mains input must be connected to the green power input cable block only.

Switch one has a maximum loading of 1000w 1.0KW.

Switch two and subsequent switches are rated to a maximum wattage of 300w 0.3 KW.

These ratings must not be exceeded by the maximum wattage stated on the appliance to be fitted to each switch.

2. Remove the cable gland cover and thread it over the cable of the appliance to be fitted. (see gland detail diagram on colour Switchbox wiring diagram - inside front cover).

**Note:** The cable glands have a plug that should be retained if the gland is not being used for a application. This should be inserted to maintain a weatherproof seal.

## INSTALLATION

3. Remove the rubber seal from the cable gland and thread it over the cable of the appliance to be fitted. At this stage leave the gland cover and rubber seal loose on the cable.
4. Remove the central PCB locating screw that locates the printed circuit board and store in a safe place.
5. Unclip and remove the circuit board, placing it on a clean dry surface.
6. Undo (slacken) the two screws that locate the cable clamp and insert the cable through the cable clamp. At this stage leave the cable clamp loose.
7. Undo (slacken) the three screws on the cable block to be connected.

**8. IMPORTANT:** Please also see diagram cable preparation for correct identification of earth, neutral and live cables.

- Insert the Yellow/green (E) Earth cable and secure with the cable block screw.
- Insert the Blue (N) Neutral cable and secure with the cable block screw.
- Insert the Brown (L) Live cable and secure with the cable block screw.
- Double insulated appliances do not have a earth cable.

Now repeat this process for all the appliances to be connected at this time.

9. When the mains input and ALL the appliances to be connected have been connected and are in place, replace the circuit board into the Switchbox (gently pulling the cables through the gland) and secure with the central PCB locating screw.
10. The cable clamps can now be secured with the two screws to ensure there is no wiring movement.
11. Insert the rubber seal that was previously threaded onto the cable into the seal grip on the cable gland. (see gland detail diagram)
12. Screw and hand tighten the cable gland cover that was previously threaded onto the cable to the cable gland.

Now repeat this process for all the appliances to be fitted at this time.

13. Ensuring that the recessed Switchbox cover seal is located, place the cover onto the box and secure with the four screws at the back of the box.
14. Identify the appliances installed with the labels provided in the recess above the relevant switch to enable clear identification when the box is in use.
15. The unit can now be placed on the fixing bracket provided by sliding the box vertically down onto the bracket.

**See power status indicator lights diagram page 2 for status of the Switchbox when the power is supplied to the unit.**

## INSTALLATION

### FUSE REPLACEMENT

See power status indicator lights diagram page 2 for status of the Switchbox fuses.

If one of the fuses fails the power indicator will not light on the switch that has failed.

Please note that if the power supply to the switchbox has been switched off or interrupted due to the RCD circuit breaker or fuse from the mains supply isolating the box none of the indicator lights will illuminate.

Before replacing the fuse please check the manufacturer's manual of the appliance that has caused the fuse to blow. The product may be faulty and in need of replacement or servicing by the manufacturer

**IMPORTANT: Always switch off the mains power and isolate the Switchbox before removing the cover.**

1. Remove the Switchbox from its mounting bracket by lifting in a vertical action.
2. Remove the four cover locating screws from the back of the box.
3. Having identified which switch fuse has blown (5 amp for switch 1 or 1.5 amp for subsequent switches), remove the blue fuse cover and gently remove the fuse with an electrical screwdriver.
4. Gently push the new fuse into place and replace the fuse cover (see page 2 for replacement fuse codes)
5. Replace the box cover ensuring that the cover seal is in place with the four screws at the back of the box.
6. Slide the Switchbox vertically down onto the locating bracket.

### MAINTENANCE

It is recommended that once a season the cover seal and rubber buttons are checked for wear and damage to ensure that a safe weatherproof seal is maintained.

If signs of wear are shown, remove and replace the parts (spares codes and descriptions page 2). These should be readily available from your retailer.

## IMPORTANT

### FAULTS - PROBLEMS PROCEDURE

Before returning your Powersafe Switchbox to your dealer or contacting our Consumer Advice Department, please carry out the following steps. This will solve most problems quickly and easily.

1. Ensure electrical procedures have been followed fully. Check fuses and any cable connectors. Check mains fuse and mains RCD.
2. Return Switchbox to the point of purchase for inspection and advice (you will need proof of purchase).

### CONSUMER ADVICE CONTACT DETAILS

**Interpet (Blagdon) Consumer Advice Department**

Vincent Lane, Dorking, Surrey RH4 3YX

**Telephone:** 0845 226 7437

(Monday to Friday 10am to 4pm except Bank Holidays - Times may vary)

**Fax:** 01306 876712    **E-mail:** [customercare@interpet.co.uk](mailto:customercare@interpet.co.uk)

## GUARANTEE

This product is guaranteed against defects in material and workmanship for 2 years from the date of purchase, under normal usage. The guarantee DOES NOT APPLY in case of improper use, negligence, lack of maintenance or accidental damage to the Switchbox. If the Switchbox fails due to a manufacturing fault within this period it will be either repaired or replaced free of charge. Liability is limited to replacement of the faulty product only; no other costs will be reimbursed.

This guarantee is not transferable and does not affect your statutory rights. This guarantee does not confer any rights other than those expressly set out above. Excludes rubber buttons and fuses, which may require replacing annually. If any parts need replacing, spares are available from your retailer.