



TPSL01, TPSL02,  
TPSL03, TPS101, TPS201

# INSTRUCTIONS



POWERSEAL  
**IP54**  
RATING  
-SWITCHES-

POWERSEAL  
**IP55**  
RATING  
-SOCKETS-  
When Lid Closed

THREE YEAR  
**3**  
GUARANTEE

## Introduction

PowerSeal products (shown here) are a cost effective range of switches and socket outlets designed for external use with the necessary IP (water and dust protection) rating established by an independent test authority.

**The socket outlets cannot be used while it is raining since there is no protection while a plug is in the socket but users would not be operating most commonly available DIY and gardening equipment in the rain.**

**The tough, impact resistant casings of this range give good physical protection in outdoor locations.**

**Water may accumulate outside the sealed area. To ensure full safety wipe the face of the socket before use.**

# 1 Product Range Covered

## TPS101 Single Socket Outlet Unit

Special IP55  
weatherproof  
seal

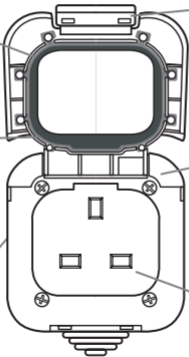
Easy lift  
spring back  
lid cover

IP55  
weatherproof  
rating

Tough,  
durable  
impact  
resistant  
housing

5 x 20mm  
knockout  
cable entries

Suitable  
for all BS  
13 amp  
plugs

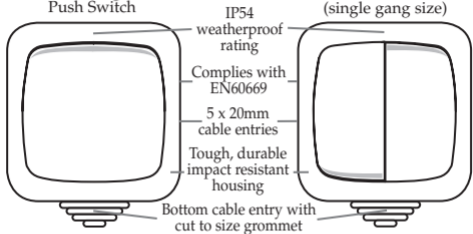


**TPSL01 Single Switch**

**TPSL03 Single Bell  
Push Switch**

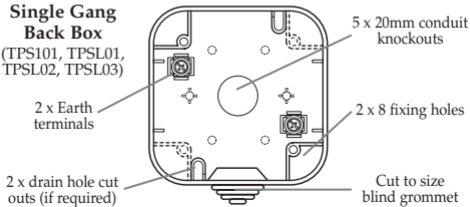
**TPSL02**

**Double Switch  
(single gang size)**



**Single Gang  
Back Box**

(TPS101, TPSL01,  
TPSL02, TPSL03)

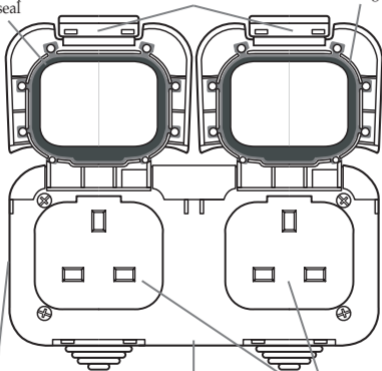


## TPS201 Double Socket Outlet Double Gang Unit

Special IP55  
weatherproof  
seal

Easy lift spring  
back lid covers

IP55 weatherproof  
rating

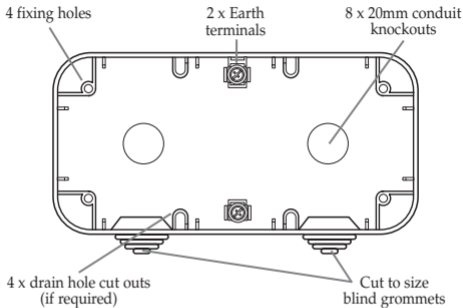


8 x 20mm  
knockout  
cable entries

Tough, durable  
impact resistant  
housing

Suitable for  
all BS 13 amp  
plugs

## Double Gang Back Box (TPS201)



## 2 Installation

This product must be installed in accordance with the appropriate Building and Wiring Regulations.

In all cases if there is a doubt as to how to proceed with an installation consult a qualified electrician, your Local Authority's Building Control Department or the Timeguard Helpline (020 8450 0515).

**To remove the switch rocker(s)** from the TPSL01, TPSL02 or TPSL03 and gain access to the front plate fixing screws carry out the following:- push the bottom of the rocker inwards then grip the top edge of the rocker and pull firmly to release the rocker catches (with double switches (TPSL02) treat each half separately as described above).

## **2.1 Cable Entry**

Try to avoid sighting the units in areas where there is direct sunlight for any length of time.

Cable entry can be made via conduit into any of the 5 (8 for the double socket TPS201) knock outs on the top, bottom, sides or back of the back box. In all cases ensure there is a drain hole at the lowest point in the attached conduit system.

The knock out outline should be heavily scored with a sharp knife before tapping out.

The appropriate sealing washers for the conduit in use must be used to maintain the IP rating. The use of any knock outs apart from the one(s) at the bottom requires that the lower drain hole(s) on the back box is opened and the IP rating may well be reduced.

The blind grommets may be used for cable entry at the bottom 20mm hole(s). They must not be used in any other position (including the rear) or the IP rating may be severely prejudiced.

The blind grommets should be pierced centrally to give an undersize hole of a similar shape to the cable cross section.

## **2.2 Fixing Back Box**

Drill 2 holes (4 for the double socket TPS201) according to the dimensions given on the rear of the back box. Fix with round head no. 8 woodscrews or equivalent using wall plugs if necessary. The length of the screw will depend on the surface being fixed to, for example fixing to roughcast would require a longer screw than fixing to brickwork.

## **2.3 Connecting Cables**

Allow sufficient excess cable to wire up the socket(s) or switches but not too much to make it difficult to close the front plate onto the back box.

### **2.3.1 Sockets**

In spur configuration we recommend feed cable of 1.5 sq. mm for the single socket and 2.5 sq. mm for the double socket. If the unit is to form part of a ring then incoming and outgoing cables must both be 2.5 sq. mm (with the double socket we recommend that the incoming and outgoing cables can be connected to one socket each with a 2.5 sq. mm bridging cable between the two sockets).

Use back box earthing terminals to maintain earth continuity where required.

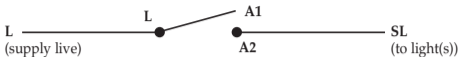
### **2.3.2 Switches**

These switches are not suitable for intermediate use in three way (and above) systems. Wiring to the switches would normally be in 1 sq. mm or 1.5 sq. mm for heavier loads.

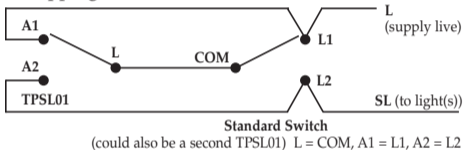
Use back box earthing terminals to maintain earth continuity where required.



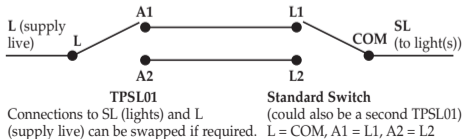
### 2.3.2.1 Single Switch (TPSL01) - On/Off



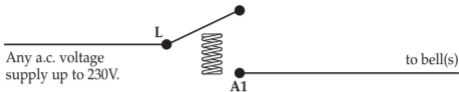
### 2.3.2.2 Single Switch (TPSL01) - 2 Way (Strapping Cable)



### 2.3.2.3 Single Switch (TPSL01) - 2 Way (Remote Live Access)



### 2.3.2.4 Bell Switch (TPSL03) - On/Off Only



### 2.3.2.5 Double Switch (TPSL02) - Both On/Off

Wiring for switch A is as for 2.3.2.1 in addition connect SL (from second set of lights) to B2.

### 2.3.2.6 Double Switch (TPSL02) - One On/Off and One 2 Way (Remote Live Access Only)

Wiring for switch A is as for 2.3.2.3 in addition connect SL (from second set of lights) to B2. L on switch is a common connection for A and B switches.

**It is not possible to make both the A and B switches 2 way.**

## 3 Specifications

### 3.1 Sockets

Current rating:	(single TPS101)	13A to BS1363
	(double TPS201)	20A to BS1363
Voltage:		230V, 50Hz a.c.
Weatherproof rating:		IP55
Operating temperature range:		-10 to 40°C
Installation temperature range:		0 to 30°C
Complies with:		BS1363
Conforms to directives:		73-23-EEC, 89-336-EEC

### 3.2 Switches

Current rating:		10AX (10A fluorescent rated)
Voltage:	(TPSL01, TPSL02)	230V, 50Hz a.c.
	(TPSL03)	Any voltage up to 230V, 50Hz a.c.
Weatherproof rating:		IP54
Operating temperature range:		-10 to 40°C
Installation temperature range:		0 to 30°C
Conforms to directives:		73-23-EEC, 89-336-EEC

## *3 Year Guarantee*

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For years 2 and 3 or any difficulty in the first year telephone the helpline on **020 8450 0515**.

For a product brochure please contact:

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London NW2 6ND Tel: 020-8452-1112  
or email [csc@timeguard.com](mailto:csc@timeguard.com)

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