



INSTALLATION & MAINTENANCE MANUAL

**OP2 / OP21 / OP2DP / OP3**

## GENERAL INSTRUCTIONS

**These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.**

**These instructions should be used to aid installation of the following product:  
OP2 / OP21 / OP2DP / OP3**

## SAFETY

- These products must be installed in accordance with the latest edition of the IEE Wiring Regulations (BS7671) and current Building Regulations. If in any doubt, consult a qualified electrician
- Please isolate mains prior to installation or maintenance
- Check the total load on the circuit (including when these products are fitted) does not exceed the rating of the circuit cable, fuse, or circuit breaker
- Please note the IP (Ingress Protection) rating of these products when deciding the location for installation
- Do not overload this accessory or subject it to conditions outside its rating
- These products are Class II double insulated
- These products are IP66 rated

## INSTALLATION

Note: The unit should be fixed to a rigid flat surface as unevenness could cause damage to the product or affect operation

- Provide power to the required point of installation (refer to BS7671 for correct cabling methods)
- Remove the front assembly from the backbox with an aid of a screwdriver and turn to the unlocked padlock symbol on the casing and carefully lift off the gasket. Drill the required number of fixing holes in the backbox (see Fig. 1)
- Using the backbox as a template, mark the location for, and drill the fixing holes ensuring not to infringe with any gas/water pipes or electrical cables. The backbox can be rotated through 180°, if required, to position the two cable entries on the top (see Fig. 2)

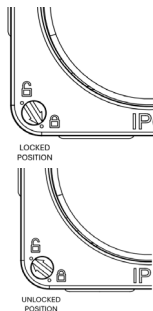


Fig. 1

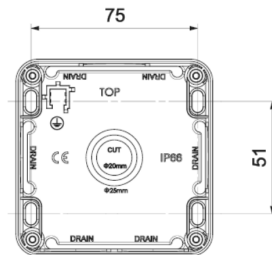
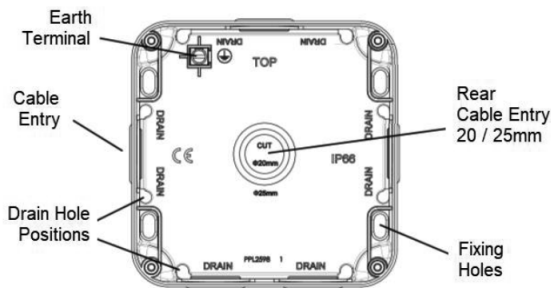


Fig. 1

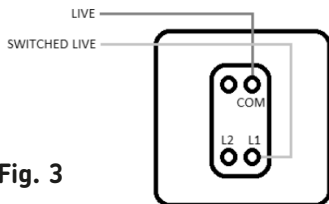
- The backbox has drain hole drilling guides marked (see Fig. 2). Drilling a drain hole is advised if the unit is installed in a location subject to temperature fluctuations where a build-up of condensation may occur. It is not advised if the unit will be subject to high pressure jets, as drilling a drain hole will reduce the IP rating. A 3–5mm hole should be drilled at the bottom back edge of the enclosure where marked. If wiring in conduit to the bottom entry, then the drain hole should be drilled at the lowest point of the conduit run not in the backbox



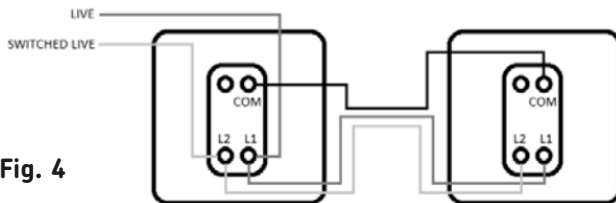
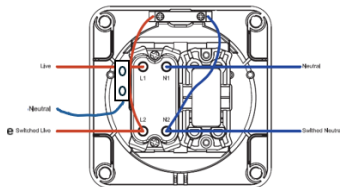
**Fig. 2**

- Remove one or more of the pre-fitted blank plugs as required by pushing out from the inside and install a suitable IP rated gland or adaptor (not supplied). For rear entry, cut or drill a 20/25mm hole where marked and install a suitable IP rated grommet (not supplied). Unused cable entries must have the blank plugs fitted
- Feed the mains cable into the unit and secure the base plate to the surface. The fixing holes are slotted to allow some rotational adjustment
- Replace the gasket onto the backbox, then wire as shown below in Fig. 3 (1-way

operation) or Fig. 4 (2-way operation) ensuring that correct polarity is observed: L - Live (brown), N - Neutral (blue)



**Fig. 3**



**Fig. 4**

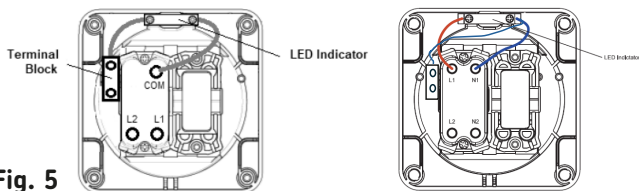
- The earth terminal in the backbox is provided for convenience and does not need to be connected
- Wire the LED indicator as required (see POWER INDICATOR WIRING section)
- Check all electrical connections are secure with no loose strands of cable
- Ensuring the gasket does not become damaged or pinched, fit the socket assembly onto

the backbox, taking care not to compress, damage or trap any cables, and secure with the screws provided – do not overtighten

- Replace front assembly to back box and secure by returning the screws to the LOCKED position
- Switch on and check for correct operation

## POWER INDICATOR WIRING

The unit has a power indicator pre-wired between the COM terminal and a terminal block on rear of the faceplate. OP2DP between the L1 and N1/terminal block (see Fig. 5)



**Fig. 5**

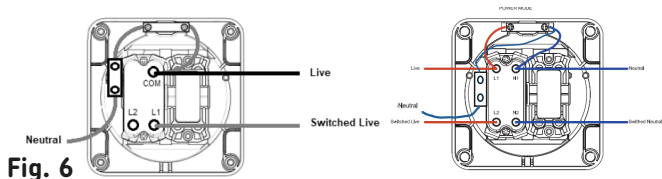
The power indicator can be wired in one of three ways. Each of these options requires access to a Neutral supply

1. Power Mode: LED ON when power is on i.e. Always on as a guide light
2. Switch Mode: LED ON when switch in ON
3. Locator Mode: LED ON when switch is OFF

Note: For model OP3. The LED indicator can only work with one of the switches, it cannot operate with both.

## POWER MODE

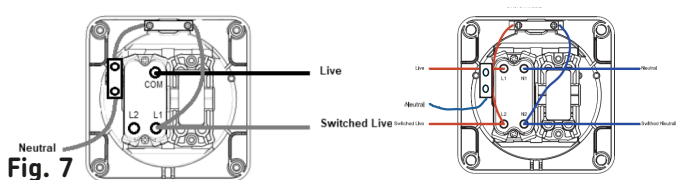
Connect the supply Neutral to the terminal block (see fig.6)



Note: when the switch is wired for two-way operation, the power indicator LED, must be connected to the L1 terminal instead of COM terminal (see Fig. 9)

## SWITCH MODE

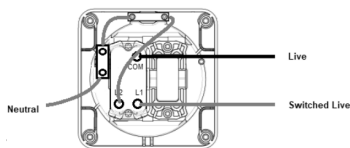
Connect the supply Neutral to the terminal block; disconnect the power indicator LED from the COM terminal and connect instead to the L1 terminal. For OP2DP, connect the supply Neutral to the terminal block; disconnect the power indicator LED from L1 terminal and connect instead to the L2 terminal. (see Fig.7)



Note: when the switch is wired for two-way operation, the power indicator LED must be connected to the L2 terminal instead of the L1 terminal (see Fig 10)

## LOCATOR MODE

Connect the supply Neutral to the terminal block; disconnect the power indicator LED from the COM terminal and connect instead to the L2 terminal (see Fig. 8)

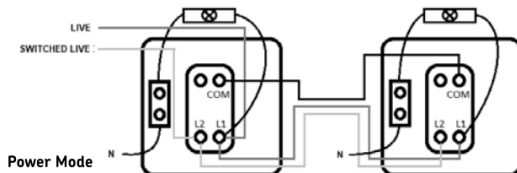


**Fig. 8**

Note: this option is not possible when the switch is wired for two-way operation and is not possible with OP21

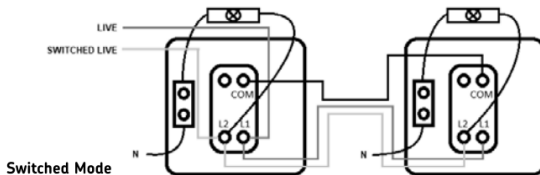
## TWO-WAY OPERATION

When the switch is wired for two-way operation, the power indicator LED is as follows:



**Fig. 9**

**Fig. 10**



## WARNING

To ensure continued safe and proper weatherproof operation, the unit must not be left with the cover raised open or the catch left unlocked.

These products must be disconnected from the circuit if subjected to any high voltage or insulation resistance testing. Irreparable damage will occur if this instruction is not followed<sup>1</sup>

## GENERAL

These products should be recycled in the correct manner when it reaches the end of its life. Check local authorities for where facilities exist.

To clean the external surfaces, securely close the cover and use a damp cloth with a mild solution of detergent and warm water only, do not use aggressive cleaning products or solvents which may damage the product. If it is necessary to clean inside the cover, use a soft dry cloth only.

Do not use any source of high-pressure washers to maintain or clean these products.

## WARRANTY

These products have a warranty of 2 years from date of purchase. Failure to install this product in accordance with the current edition of the IEE Wiring Regulations (BS7671), improper use, or removal of the batch code will invalidate the warranty. If these products should fail within its warranty period, it should be returned to the place of purchase for a free of charge replacement. ML Accessories does not accept responsibility for any installation costs associated with the replacement product. Your statutory rights are not affected. ML Accessories reserve the right to alter product specification without prior notice.

**SUPPLIED BY:**

**(UK) MANUFACTURER**

**ML ACCESSORIES LTD**, UNIT E CHILTERN PARK,  
BOSCOMBE ROAD, DUNSTABLE LU5 4LT,  
[WWW.MLACCESSORIES.CO.UK](http://WWW.MLACCESSORIES.CO.UK)

**(EU) AUTHORISED REPRESENTATIVE**

**SLV LIGHTING GROUP**,  
DAIMLERSTRASSE 21-23,  
52531 ÜBACH-PALENBERG, GERMANY  
**EMAIL:** [EPREL@GROUP.SLV.COM](mailto:EPREL@GROUP.SLV.COM)

MADE IN CHINA

**230V**  
**50Hz**



**IP66**

**ML**  
ACCESSORIES LTD



**UK**  
**CA**



**11**