



INSTALLATION & MAINTENANCE MANUAL

OP21T

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:
OP21T**

SAFETY

- This product 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 this product is fitted) does not exceed the rating of the circuit cable, fuse or circuit breaker
- Please note the IP (Ingress Protection) rating of this product when deciding the location for installation
- Do not overload this accessory or subject it to conditions outside its rating: 16A resistive and 4A inductive Loads (max 150W LED)
- This product is Class II double insulated
- This product is 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)

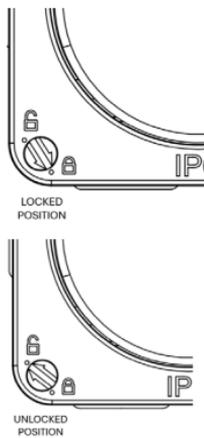
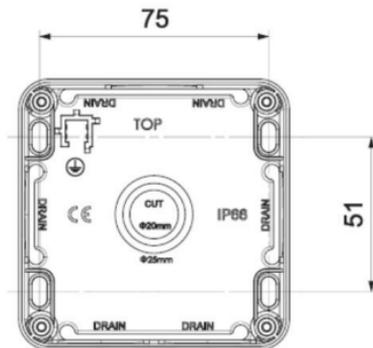


Fig. 1



- 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.
- 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 marked and install a suitable IP rated grommet (not supplied). Unused cable entries must have the blank plugs fitted

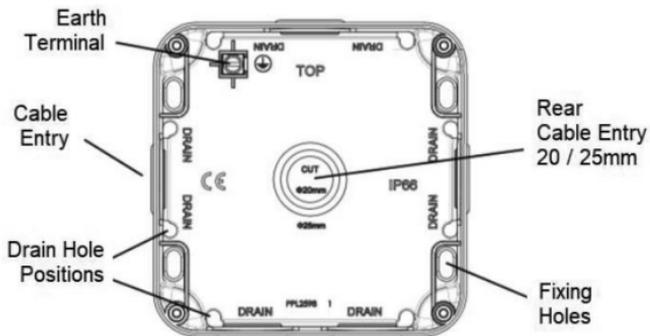


Fig. 2

- 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 (see Fig. 3)

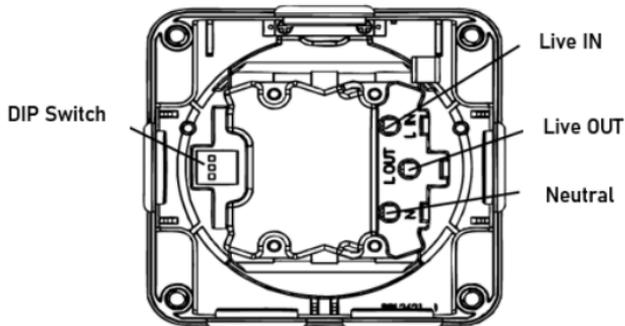


Fig. 3

- The earth terminal in the backbox is provided for convenience and does not need to be connected
- Check all electrical connections are secure with all exposed copper within the terminal and no loose strands of cable
- Select the required time delay setting (see table below)

Note: The Time Delay Switch should be installed min. 2m from the load

Dip switch	sw 1	sw 2	sw 3	Mins
1 	ON	ON	ON	2
2 	ON	ON	OFF	5
3 	ON	OFF	ON	10
4 	ON	OFF	OFF	30
5 	OFF	ON	ON	60
6 	OFF	ON	OFF	90
7 	OFF	OFF	ON	120
8 	OFF	OFF	OFF	180

Operation of OP21T

- After turning on the mains, the LED indicator turns on and the circuit is off
- Pressing the switch activates the circuit, the LED indicator turns off and the time delay begins
- The LED indicator will start to flash when there is one minute before the end of the time delay
- At the end of the time delay, the load on the circuit will turn off and the LED indicator will turn on

Note: If the switch is pressed while the time delay is still in progress, the time delay will end after 1 minute. The LED indicator will start to flash.

If the switch is pressed during the last minute of the time delay (while the LED indicator is flashing), the time delay will reset and activates the circuit.

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

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.

This product 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. USB or Bluetooth products, dimmers, shaver sockets and products with LED or neon indicators 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. Please note this kind of damage will void the warranty.

GENERAL

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

Clean the external surfaces with a damp cloth using a mild solution of detergent and warm water only, do not use aggressive cleaning products or solvents which may damage the product.

Do not use any source of high-pressure washers to maintain or clean this product.

WARRANTY

This product has 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 this product 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.

* 2 years for products with electronic components such as dimmers, USB chargers etc. Knightsbridge Wiring Accessories have a warranty of 25 years* for mechanical operation from date of purchase with the exception of products containing electronic components such as dimmers, USB chargers, and speaker products, which have a 2-year warranty. 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 this product 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:

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