

Bluetooth Mains Switch Operation

The Bluetooth Mains Switch uses your phone's Bluetooth connection to send and receive data from the main control unit. Where wiring is impractical or costly to install, this product provides a reliable alternative. It offers a switching capacity of 6 A and a Bluetooth range of up to 100 metres in free air, making it suitable for applications requiring double-pole switching without costly wiring runs.

The Bluetooth Mains Switch also provides a second channel with voltage-free changeover contacts for switching low-voltage circuits or signal inputs. This can be used for electric gate and roller shutter control. Channel 2 includes configurable software operating options.

Bluetooth Mains Switch Installation

This product operates from a 230 V AC mains supply and must be installed by a competent and suitably qualified person.

For the purposes of this document, a competent person is one who meets the requirements set out in the latest edition of BS 7671 and has the necessary education, training, practical skills and ability to identify and avoid electrical hazards. If you are not competent to carry out the work safely, you must engage a qualified electrician.

Pairing PIN

Using your phone's Bluetooth menu, pair your phone with the Bluetooth Mains Switch in the same way you would pair any other Bluetooth device. The default PIN is 1234. Refer to your phone's instructions for further guidance on pairing Bluetooth devices.

Updating the Pairing PIN

To help prevent unauthorised use, you can change the pairing PIN to a unique four-digit number.

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The factory default PIN for the Bluetooth Mains Switch is 1234. To change the PIN, you must be connected to the Mains Switch and within Bluetooth range. Select Update **Pairing PIN** in the app and, when prompted, enter a new four-digit code using numbers 0–9 only.

Do not enter letters, characters or symbols. Once the new PIN has been entered, press the red **Update** button at the top left of the app.

Once the PIN has been updated in the Bluetooth Mains Switch, the app will close so that you can re-pair the device using your phone's Bluetooth menu, as described above.

Forgotten Pairing PIN

If the pairing PIN has been forgotten, the Bluetooth Mains Switch must be reset. Only **competent** persons should work on the Bluetooth Mains Switch unit, as it contains live parts. Before removing the cover, disconnect the Mains Switch from the mains supply.

On the PCB, immediately to the right of LED LD1, is the reset link marked LKP.

Apply power to the Bluetooth Mains Switch. LD1 will flash twice. Wait approximately 5 seconds until LD1 illuminates for around 5 seconds. Once the LED turns off, place the jumper link across both LKP pins for 1 second. LD1 will pulse twice to indicate that a factory reset has been completed. Remove the jumper link as soon as the LED has pulsed twice. The jumper link must then be removed from both LKP pins and may be parked on one LKP pin only. The default PIN will be restored to 1234, and all phones will need to be paired again using this PIN.

Refit the cover, ensuring that no debris is present in the sealing groove on the lid or on the mating face of the enclosure. Position the lid squarely over the enclosure and tighten the lid screws, ensuring that the lid and base are fully closed with no visible gaps.

Accidental Unpair

Note: Depending on the Android version and phone model, pairing may fail if the phone has been accidentally unpaired or if the PIN has been entered incorrectly several times. If this occurs, power down the phone, restart it, and

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try pairing again using the current PIN. If pairing still fails, follow the forgotten PIN reset procedure above.

Setting Up the Bluetooth Mains Switch App

Tap the BT Mains Switch icon on your device, then press the Connect button. The button will change to Connected once a Bluetooth connection is made. Ensure that you are within range, that the Bluetooth Mains Switch is powered, and that it has previously been successfully paired with the phone.

To access the menu, press the (...) icon. The following options are available from the menu:

1. Select Model Number. Choose between the 1-channel and 2-channel models. Channel 1 is the mains switch output. Channel 2 provides voltage-free contacts.
2. Help. Opens this Help and Important Information page.
3. Unpair and Reset to Defaults. Resets the Bluetooth Mains Switch to factory defaults and erases all paired phones and the current PIN.
4. Channel 2 Control. Select either on/off operation or pulsed output for Channel 2. When set to on/off, Channel 2 operates like a switch. When set to pulsed output, Channel 2 activates the voltage-free contacts for approximately 2 seconds. This mode is commonly used to trigger electric gate controllers where a short pulse is required.
5. Update Pairing **PIN**. Enables you to change the four-digit PIN for the Bluetooth Mains Switch. All previously paired phones must be paired again using the new PIN.

Main Screen Buttons

If you have a 2-channel switch (BTM002) with Channel 2 set to on/off, the main screen will display four buttons: Connect, Channel 1, Channel 2 and Exit.

When the **Channel 1** button is pressed, the relay output closes and provides mains voltage at terminals 5 and 6. The button changes colour from orange to green and displays Channel 1 ON.

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Pressing the green Channel 1 button again turns off the relay and disconnects the mains output on terminals 5 and 6. The button colour reverts to orange, indicating that the switch has accepted the off command, and displays **Channel 1 OFF**. If the button does not change colour or does not appear, the unit may be out of range, or the signal may not have been received by either the phone or the Bluetooth Mains Switch. Check that you are within range and retry the operation.

Channel 2 operates in the same way as Channel 1, except that relay 2 provides voltage-free contacts suitable for signal control or electric gate control. **Note:** All paired phones must be configured in the same way. For example, if Channel 2 is set to pulsed output, all phones must also be set to pulsed output. If Channel 2 is set to on/off, all phones must also be set to on/off. Failure to configure all phones consistently may result in incorrect or failed operation.

Pressing Channel 2 in pulsed mode operates the voltage-free relay 2 on terminals 7, 8 and 9, with terminals 8 and 9 closing for approximately 2 seconds. The button changes colour from orange to purple while the output is active, then returns to orange when the relay returns to its default state. In on/off mode, pressing **Channel 2** changes the state of relay 2 on terminals 7, 8 and 9. Terminals 8 and 9 remain closed until the button is pressed again, at which point terminals 8 and 9 open and terminals 7 and 8 close. The button then reverts to orange and displays **Channel 2 OFF**.

Pressing the Exit button closes the app but leaves the Bluetooth Mains Switch in its current state. For example, if Channel 1 was on and the green button was displayed on the phone, the same state will be shown when reconnecting to the Mains Switch. The same applies to Channel 2 when it is set to on/off. If Channel 2 is set to pulsed output, the button will always display orange when reconnecting, as the channel only operates momentarily.

Relaunch the app and press the Connect button to establish a Bluetooth connection. Once connected, the button will change from light blue to a deeper blue and display Connected. The current channel state will be displayed on the Channel 1 and Channel 2 buttons.

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Failure to Establish a Bluetooth Connection

Failure to establish a Bluetooth connection may be caused by being out of range or by incorrect pairing. Another paired phone may also still be connected or running in the background. Only one phone can be connected at a time.

Obstacles around the Bluetooth Mains Switch may also reduce the operating range.

If the range is poor or the signal is interrupted before communication is fully established, the Mains Switch security features may activate. If this occurs, no connection will be permitted for up to 5 minutes, and any attempt to connect during this period will fail. Wait 5 minutes before attempting to reconnect.

Bluetooth Range

The Bluetooth range is up to 100 metres in free air and line of sight. Buildings and other environmental factors may reduce the operating range. Always test the proposed mounting location before installing the Mains Switch. Avoid installing the unit at a low level, as nearby structures may adversely affect the range. Installation at a height of at least 2.5 metres should provide good results.

Up to eight Bluetooth phones can be paired with the Bluetooth Mains Switch; however, only one connection can be active at any one time.

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