CONNECTING THE DEVICE VIA THE APP

1. Download the free "Major Tech Hub" Smart App from either the Google Play Store or Apple App Store.
2. Navigate to the App Settings on the device where the app was recently installed and grant all required permissions. This will ensure the app functions properly and maintains a seamless connection with your smart devices.
3. Always ensure your phone is connected via a 2.4GHz Wi-Fi Network (Major Tech smart devices are not compatible with 5GHz networks to ensure optimal range and a stable connection).
4. Power on the MTS13: It will automatically enter pairing mode after the initial installation, and the green indicator LED will flash rapidly to confirm that pairing mode is active.
   - If the indicator is not flashing, use the included SIM card tool to press and hold the reset button on the top-right corner of the unit for 7 seconds to enter pairing mode. The green indicator LED will then begin flashing.
5. Ensure the desired 2.4GHz Wi-Fi network is available and connected to the device running the 'Major Tech Hub' app. In the app, tap the '+' or 'Add Device' icon.
6. The app will automatically display a list of all your activated smart devices that are ready and in pairing mode.
7. Tap 'Add' to begin adding all discovered smart devices.
8. Enter the SSID and password of the desired 2.4GHz Wi-Fi Network, then tap 'next' to begin adding smart devices.
9. A screen will appear showing you the progress for each device that is being added.
10. Once a device is added, you can edit its name and assign it to one of the rooms you've set up in your 'Home'
11. Once completed, the control panel for your newly added smart device will open automatically, allowing you to customize and program the device as needed.

9. SPECIFICATIONS

Function	Range
Voltage	100V to 240V AC
Frequency	50/60 Hz
Operation Temperature	-10°C to 40°C
Communication: Wi-Fi: Bluetooth:	2.4GHz 802.11b/g/n 5.2 (BLE/BLE2)
IP Rating	IP20
Module Dimensions	46mm x 46mm x 18mm
Operation Range	<200m

Download the Free Major Tech Hub App
By Scanning the QR Code

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INSTRUCTION MANUAL
MTS13

Smart Entry Conroller Module

WiFi garage door switch module
Model: MTS13
100-240V~ 50/60Hz 20mA
Wi-Fi: 2.4GHz-2.4835GHz   802.11b/g/n

Reset

Input AC   Signal Cable
N   L   S1   S2   B1   B2

1. OVERVIEW

Unlock the convenience and efficiency of modern home automation with the MTS13 Smart Entry Controller Module.   This versatile device operates on a voltage range of 100 to 240V AC, 50/60Hz, making it compatible with a variety of electrical setups. It features Dual Mode Wi-Fi and Bluetooth 5.2 communication for reliable connectivity, whether in close proximity or at a distance. The MTS13 boasts an IP20 rating, offering protection against dust and small particles. Utilize the **Major Tech Hub** Smart App for comprehensive control over your garage door or gate motor. The smart app allows you to open and close the door or gate with ease, receive real-time activity alerts, and schedule automatic routines for added convenience. Upgrade your home automation system with the MTS13 Smart Entry Controller Module for a streamlined and efficient experience. With voice control for Alexa and Google Assistant, life has never been easier.

When installing the MTS13, ensure that it is done by a suitably qualified professional in accordance with wiring rules and codes in the country of installation and making sure it is placed in an appropriate environment with an ambient temperature range of -10°C to +40°C. The relative humidity should be kept below 75%.
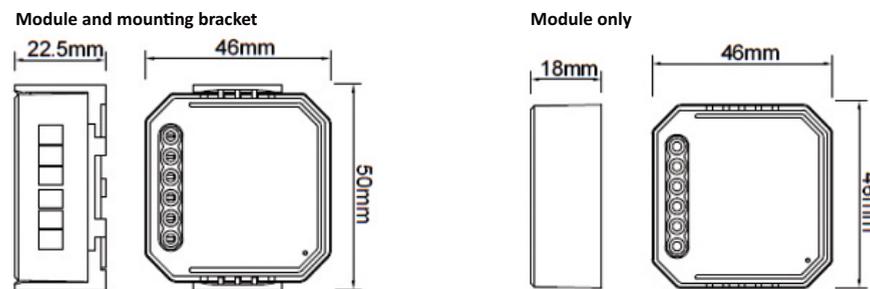
2. USAGE INDICATOR

Green LED Indicator: This will flash to indicate that the Module is in pairing mode, and is ready to be added to your device list in the "**Major Tech Hub**" App. This indicator will stop flashing during the adding process once a successful connection has been made.

3. BASIC FEATURES

* **Smart App Compatibility:** Easily access advanced features by downloading the free "**Major Tech Hub**" Smart App.
* **Timing Options:** Enjoy precise control, with versatile timing options, including Schedules, Run Time settings and more.
* **Compact Form Factor:** Designed with a compact form factor (Size: 46x46x18mm) and mounting bracket to allow for easy installation into junction boxes, behind existing switches, or on ceilings/walls.
* **Included Accessories:** Wired contact sensor, module mounting bracket, sensor mounting brackets,4.5m extension cable for sensor, and installation fixings.
* **Dual Mode Connectivity:** Always stay connected as the MTS13 automatically and seamlessly switches over to Bluetooth, for local control, if the Wi-Fi connection is lost or becomes unavailable.
* **Warnings and Alerts:** This feature allows you to choose to be notified every time the sensor detects that the door or gate has been opened or closed, and allows you to set a reminder & timeout period to notify you if you have forgotten to close within the selected time period.
* **Voice Control:** Compatible with Alexa and Google Assistant.
* **Customisable Sensor Modes:** This feature allows you to configure how the wired contact sensor detects the closed position.
   * **Closed Trigger Near:** The sensor will report as closed when the two parts of the sensor are close enough together to trigger the sensor.
   * **Closed Trigger Apart:** The sensor will report as closed when the two parts of the sensor are seperated.

4. PRODUCT DIMENSIONS

Module and mounting bracket
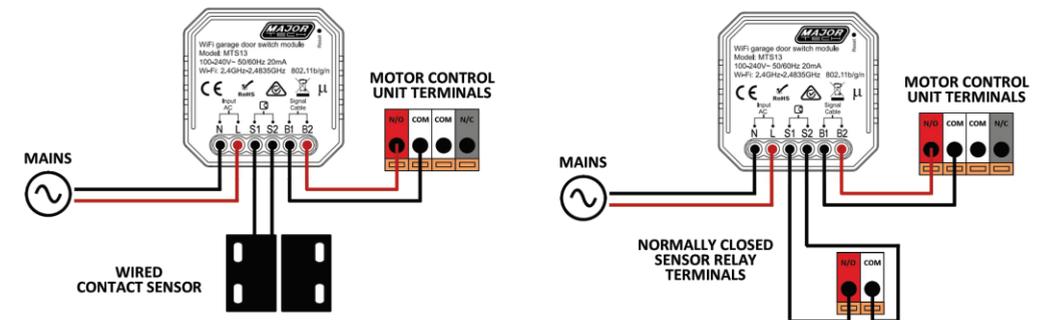
Module only

IMPORTANT NOTES:

* Installation of the MTS13, must only be performed by a suitably qualified professional in accordance with the wiring rules and codes, and regulations as applicable in the country of installation.
* The MTS13 is rated IP20, and must be installed in an appropriate environment with an ambient temperature range of -10°C to +40°C at <75% relative humidity.
* Ensure that power to all circuits is switched off before attempting any electrical installation or maintenance, failure to do so may result in injury, electric shock or death.
* If the magnetic components of the contact sensor are improperly installed they may interfere with or compromise the proper function of the existing position and/or other sensors of the gate, garage door, boom etc.

5. INSTALLATION INSTRUCTIONS

1. Connect the Live and Neutral wires from the AC supply to the respective L and N terminals on the MTS13.
2. Connect and wire terminals B1 and B2 on the MTS13, to the Normally Open(NO) and Common(COM) terminals on the motor control board.
   a. These terminals may also be labelled as Trigger(TRIG) and Ground(GND) on the motor control board.
   b. If a push button wall switch(bell press switch) and/or RF remote/transmitter are already used for control, these control terminals may have existing connections.
   c. The B1 and B2 terminals of the MTS13 can be wired in parallel to these connections if they already exist.
   d. Ensure that any existing connections are kept intact and remain functional.
3. Fit the wired part of the sensor to the stationary part of the gate, garage door, boom etc. that is operated by the motor.
4. Securely mount the un-wired part of the sensor on the moving part of the gate, garage door, boom etc. using the included tape, screws and/or bracket.
5. Mount and align the two parts of the contact sensor.
   a. The installer must determine the proper placement for both parts of the contact sensor.
   b. Ensure no more than 1cm of separation between the two parts of the sensor, when the gate, garage door, boom etc. is fully open or closed.
   c. Ideal placement is dependant on the specific installation and preferred 'Sensor Trigger Mode'.
6. Verify the correct placement of sensor components
   a. Movement and proper operation of the gate, garage door, boom etc. should in no way be compromised
   b. The magnetic parts of the contact sensor should not interfere with any pre-existing magnetic and/or other sensors that are crucial for the safe and correct operation of the motor and connected gate, garage door, boom etc.
7. Connect the wires of the contact sensor to the S1 and S2 terminals on the MTS13, either wire can be connected to S1 or S2.
8. Securely fasten, and check all connections and the corresponding terminals on the MTS13.
9. Once all connections are secure, mount the MTS13 bracket in an appropriate location, ensuring it is not exposed to water or rain, and clip the unit into place.
10. Route wires through the appropriate hole in the motor housing if necessary, and secure them using the included cable ties and cable clips.
11. Turn the power back on, verify that the MTS13 has power and that the gate, garage door, boom etc. function and operate safely and correctly before proceeding.
12. The MTS13 may now be paired to the Major Tech Hub smart application.

6.WIRING DIAGRAMS

7.TERMINAL FUNCTIONS

Power Supply Terminal:
These terminals are essential for providing electrical power to the Smart Entry Controller module.
L: Connects to the Live wire (Line or Phase) of the electrical supply to power the module.
N: Connects to the Neutral wire of the electrical supply to complete the circuit.
Sensor Input Terminals (S1 and S2):
These terminals facilitate the connection to the supplied contact sensor, to provide information about the status of the garage door or gate to the MTS13.
S1 Terminal: Input terminal for the red sensor cable.
S2 Terminal: Input terminal for the black sensor cable.
Motor Control/Triggering Terminals (B1 and B2):
These terminals facilitate the connection between the Smart Module and the motor controller unit or control box of the garage door or gate motor.
B1 Terminal: Output terminal for triggering the motor mechanism (e.g., opening, closing, stopping), typically connected to the Motor Trigger Input Terminal of the motor controller unit or control box of the garage door or gate motor.
B2 Terminal: Output terminal for connecting to the COM terminal of the motor controller unit or control box of the garage door or gate motor.