

### Items Supplied

- Rain Sensor
- Mounting Bracket
- Sensor-Bracket Screws (x4)
- Wall Plugs (x2)
- Wall Mounting Screws (x2)

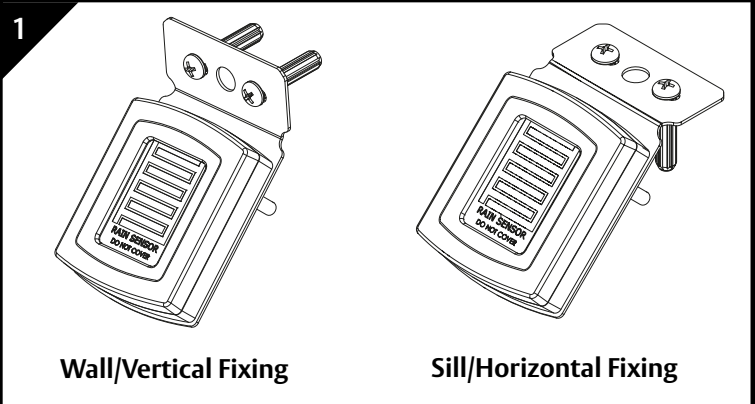
### Tools Required

- Phillips Head Screwdriver
- Pencil
- Rule
- 6mm Masonry Drill Bit (Concrete/Brick)
- 3mm Drill Bit (Wood/Aluminium)
- Power Drill

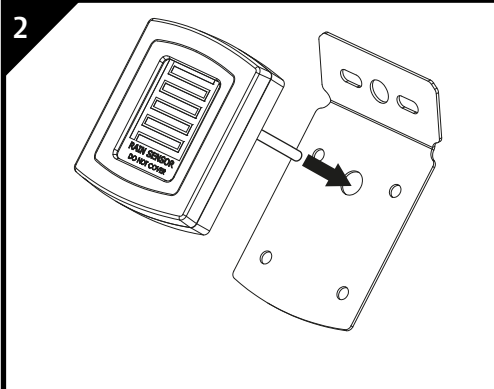
### Serial Number Label

DATE: DD/MM/YY  
 NUMBER: 0123456789

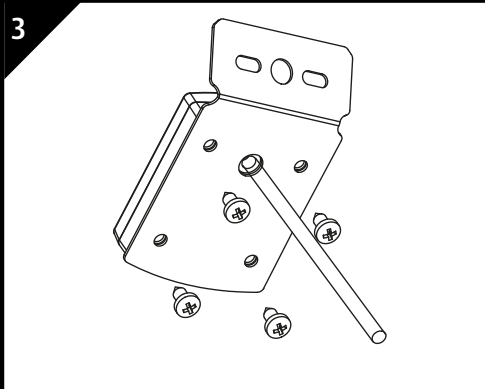
**IMPORTANT:** Ensure the Serial Number is noted on the back of the Keypad User Guide. This will be used for the programming of the Key/Control System.



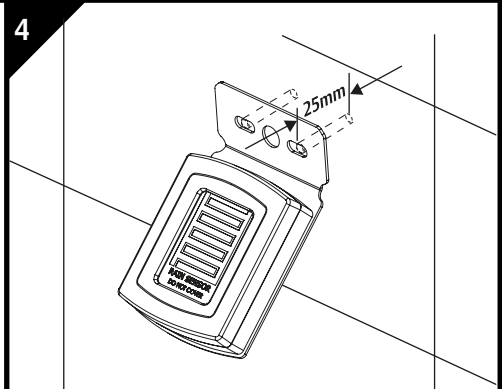
Determine fixing orientation of the Mounting Bracket. Do not install in areas where objects will cover the sensor and affect the sensitivity, eg. under open windows, under large eaves or under sills.



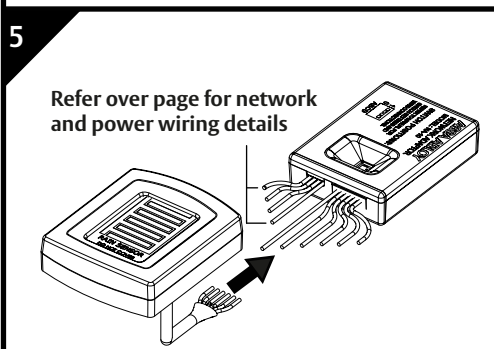
Feed the cable through the hole in the Mounting Bracket.



Secure the Rain Sensor to the Mounting Bracket with the sensor bracket screws supplied.

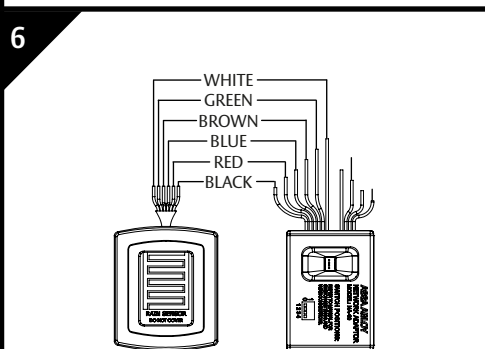


Use 6mm masonry drill bit for brick/concrete. For timber/aluminium, pre-drill 3mm hole. Drill at least 25mm deep.

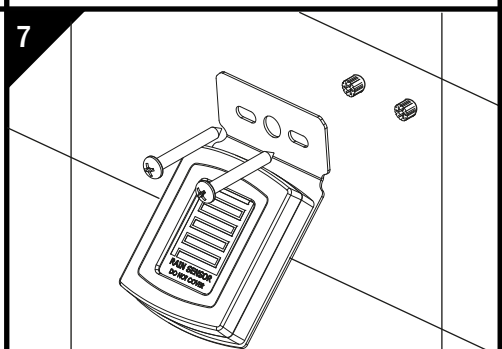


Refer over page for network and power wiring details

Network adaptor must be secured internally, eg. wall or roof cavity. Connect Rain Sensor to Network Adaptor. Ensure any outdoor connections are sealed.



When connecting the Rain Sensor cable to the Network Adaptor cable, match the coloured cables.

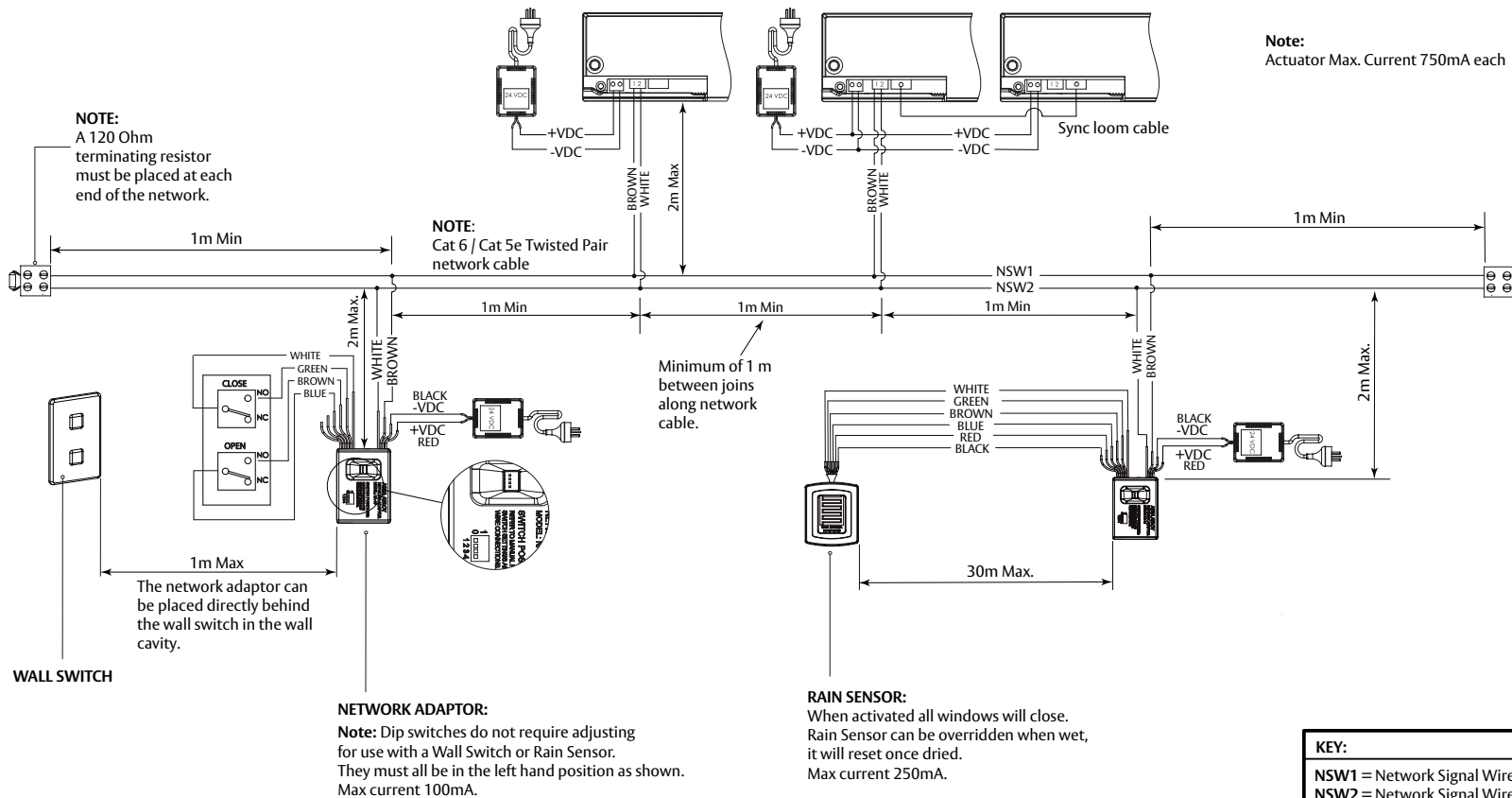


Insert wall plugs (brick/concrete only). Align the mounting bracket to holes and affix using the mounting screws supplied.

# Wall Switch Circuit Diagram

(Note: for Keypad Circuit Diagram see Keypad fitting instructions)

## Installation tips



- The power connection on the actuator is not polarity conscious.
- Cat 6 / Cat 5e Twisted Pair Network Cable used for the network cable.
- A 120 Ohm resistor must be connected at each end of the network cable.
- The network signal wires (NSW1 and NSW2) are polarity conscious and must not be shorted or connected the wrong-way around when connecting to devices.
- Each device must be connected to a new point along the network cable so devices are connected in a 'daisy chain'.
- Maximum network cable length is 300 metres
- A maximum of 30 devices can be connected to one network. For example 28 actuators and 2 network adaptors.
- A 'synchronised actuator' is not counted in the number of connected devices because it acts as a slave.
- A maximum of 4 network adaptors can be connected to a network.
- A network adaptor can be connected to a wall switch or a rain sensor, but not both at the same time.
- The network cable can be 'looped down' to the actuators and network adaptors so connecting cable between devices and network cable is 2m or less.
- Ensure all joins along the network cable are made properly. Soldering the joins is recommended.

### CALIBRATION AND BASIC FUNCTION

The system must calibrate before use. Power up the system, wait one minute, then press the open switch. The windows will open and close twice. Wait at least one minute before operating the system.

**Note:** If a window stops during calibration it means that it has safety stopped due to too much load. Press the close switch. Remove the obstruction. Then press the open switch to continue.

**Wall Switch Basic Function:** Press the open switch for at least 2 seconds to open the windows. Press the close switch for at least 2 seconds to close the windows. Press any switch for at least 2 seconds to stop the windows.

### TECHNICAL SPECIFICATION

INPUT VOLTAGE	24V DC
MAXIMUM CURRENT	750mA per Actuator
OPENING TIME	Approx 40 sec
OVERALL DIMENSIONS	308mm x 44mm x 32mm
OPERATING TEMPERATURE	0° - 50°C
HUMIDITY	0% - 95%
NETWORK CABLE LENGTH	300m Max

#### Rain Sensor

- When the rain sensor detects rain, all the windows connected to the network will close together.
- The windows can to be opened again by pressing the wall switch.
- The windows can also be opened during rain from the wall switch which overrides the rain sensor. However the rain sensor will not reactivate until it has dried out and reset.

#### Keypad

- Keypads and wall switches are not recommended to be used together on the same network.
- Refer to Keypad installation and programming instructions for additional features.

