Q50109-121 Issue2 0422

Items Supplied

- **Keypad**
- **Wall Bracket**
- **1m Cat 6 / Cat 5e Cable**
- **Fixing Screws (x2)**
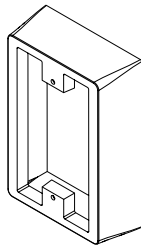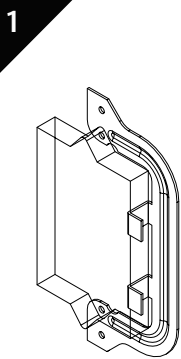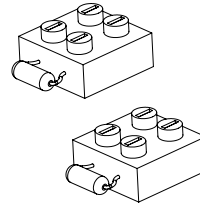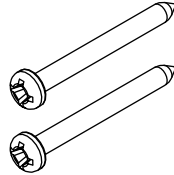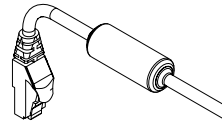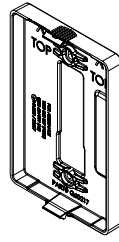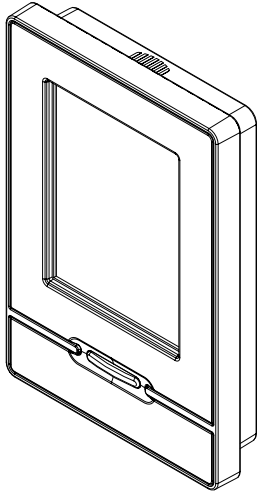- **Terminal Resistor Blocks (x2)**

Tools Required

- **Hobby Knife**
- **Small Screwdriver**
- **Phillips Screwdriver**
- **Long Nose Pliers**
- **Wire Strippers**
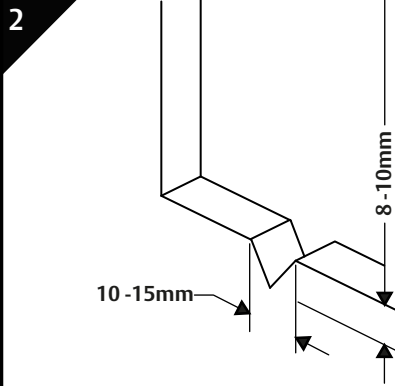
Serial Number Label

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.

1

Alternatively if mounting to a brick wall an exposed bracket can be used.

Using standard mounting clip (or similar), mark out and produce cavity in wall.

2

8 -10mm
10 -15mm

Add notches at top and bottom of wall cavity to allow clearance for mounting srews.
Do not oversize notches.

3
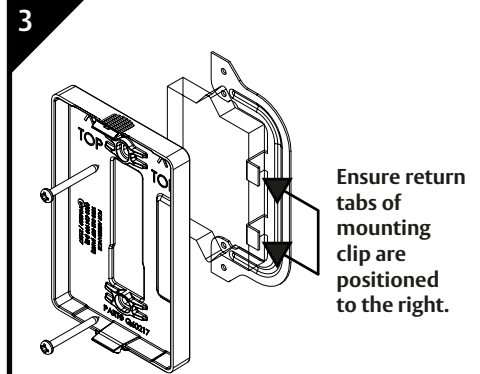
Ensure return tabs of mounting clip are positioned to the right.

Secure the wall bracket in the correct orientation using the 2x mounting screws supplied.
Do not over tighten.

4
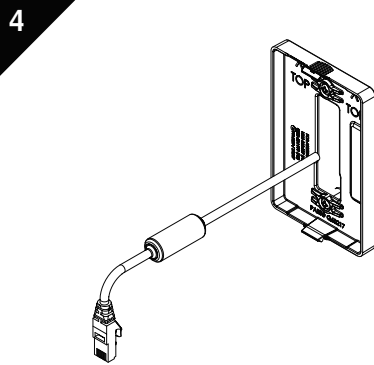
Ferrite ring end of Cat 5e cable connects to the Keypad. Feed other end through opening in wall and connect to the network. Refer over page for power/network wiring.

5
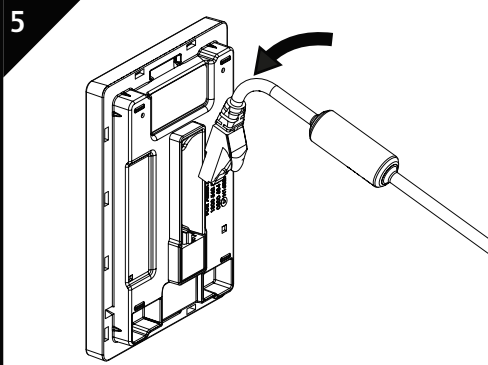
Insert Cat 5e connector into the Keypad.
Click into place.

6
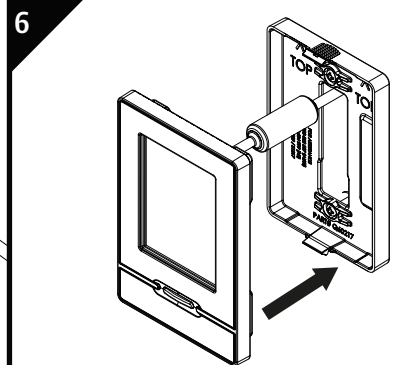
To secure the Keypad push it gently into the wall bracket until it clicks into position.

7
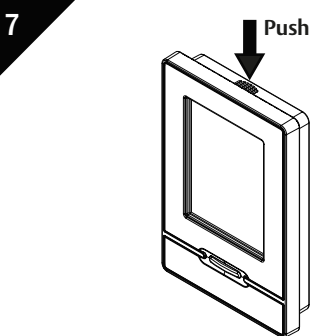
Push

To remove Keypad from wall bracket.
Push down at the top of the wall bracket.

8
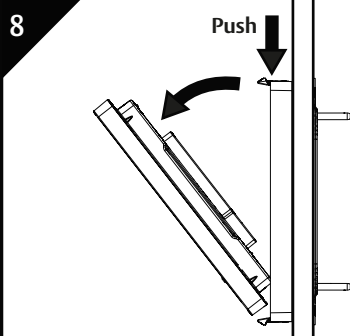
Push

Whilst pushing down on top of the wall bracket, pull the top of the Keypad out rotating it about the bottom clip.

9

Refer to Keypad User Guide for set-up instructions.

Note:
A 120 Ohm
terminal resistor
must be placed at each
end of the network.

+VDC
-VDC

+VDC
-VDC

+VDC
-VDC

Sync loom cable

BROWN
WHITE
2m Max.

BROWN
WHITE

1m Min.

NOTE:
Cat 6 / Cat 5e Twisted Pair
network cable

1m Min.

NSW1
NSW2

2m Max.

1m Min.
Place as far as possible

1m Min.

1m Min.

NSW2 - BROWN
NSW1 - WHITE

WHITE
GREEN
BROWN
BLUE
RED
BLACK

- VDC - BLACK
+VDC - RED

Minimum of 1 m
between joins
along network
cable.

NSW2 - ORANGE
NSW1 - ORANGE/WHITE
GREEN NOT USED
GREEN/WHITE NOT USED

-VDC
+VDC

BLUE/WHITE
BLUE
BROWN
BROWN/WHITE

1m Max.

30m Max.

RAIN SENSOR
When activated, all windows will close.
Rain Sensor can be overridden when wet,
it will reset once dried.
Max current 250mA.
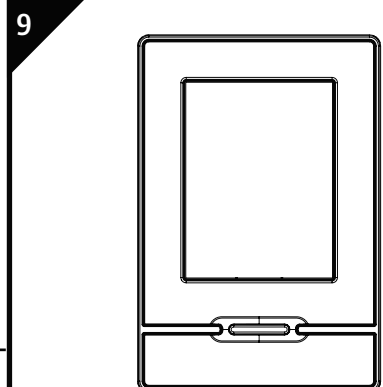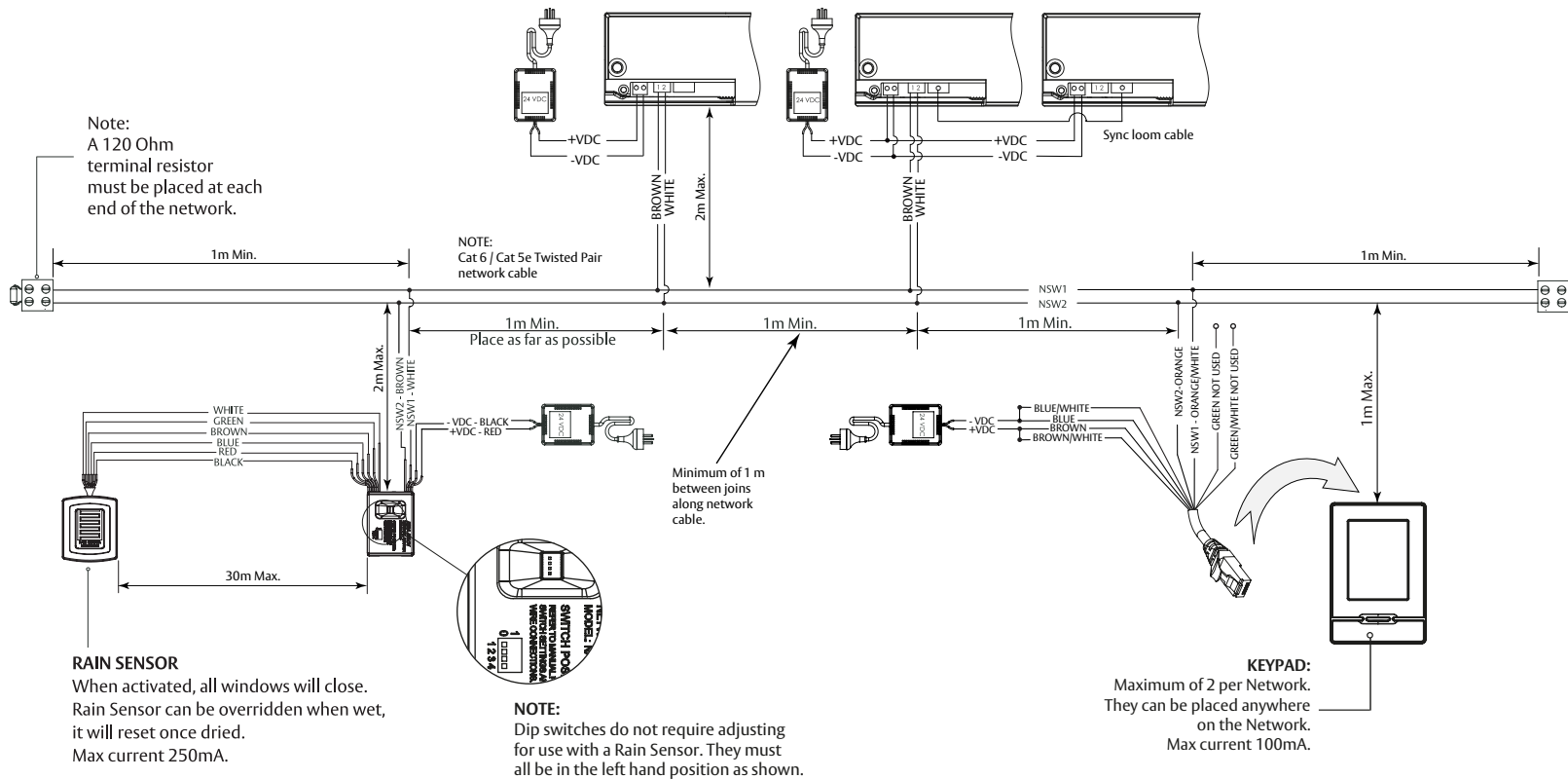
NOTE:
Dip switches do not require adjusting
for use with a Rain Sensor. They must
all be in the left hand position as shown.

KEYPAD:
Maximum of 2 per Network.
They can be placed anywhere
on the Network.
Max current 100mA.

KEY:

NSW1 = Network Signal Wire 1.
NSW2 = Network Signal Wire 2.
NO = Normally Open contact.
NC = Normally Closed contact.

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 32 devices can be connected to one network. For example 28 actuators and 2 keypads and 2 rain sensors.

- A 'synchronised actuator' is not counted in the number of connected devices because it acts as a slave.

- A maximum of 4 rain sensors and 2 keypads can be connected to a keypad network.

- Keypads and wall switches are not recommended to be used together on the same network.

- 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.

- Refer to Keypad installation and programming instructions for additional features.

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.

CALIBRATION AND BASIC FUNCTION

TECHNICAL SPECIFICATION

Calibration
Once all actuators have been registered the system will proceed to a calibration screen.
Press **Calibrate Actuators**. All actuators will open and close twice.
If a warning is displayed 'Window Obstructed' this means an actuator has performed a safety stop.
Locate the window and check for obstruction.
Press Home and then Close All. (Only the obstructed window will close)
Then press **Calibrate Actuators**.
Refer to 'Keypad Programming and User Guide' for further information.

Powering Up the System
Ensure all wiring connections are complete before powering up.
Ideally, the actuators should be powered up before the keypads to ensure the keypads register all actuators on the network.
If this isn't possible and actuators have not been recognised by the keypad, press **Reset Keypad** in the Setup page.
Then proceed to **Zone Setup** to allocate actuators that have not been registered.

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
HUMIDTY	0% - 95%
NETWORK CABLE LENGTH	300m Max

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