

Resene SmartTouch

Quick Start

Check you have all required components before starting installation

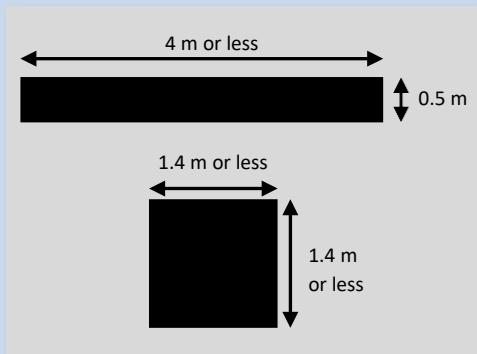
- 1 L SmartTouch conductive coating
- SmartTouch S1 controller
- Smartlink cable and pins
- Mastic Tape strip
- Application Template (for switchplate installation)

Watch the installation overview on the Resene website for a quick introduction to SmartTouch. More in depth videos and instructions are also available for individual steps.

Paint – Connect – Tap

Paint the Active Area

1. Measure the area(s) to be coated with Resene SmartTouch conductive coating – up to 2 sqm in area



2. Mark out and prepare the location(s) for Smartlink connector attachment (use the templates provided for switchplate locations)

3. Apply at least two coats of SmartTouch conductive coating
4. Check coating electrical resistance
5. Apply decorative topcoats

Connect Smartlink to coating and electronic controller

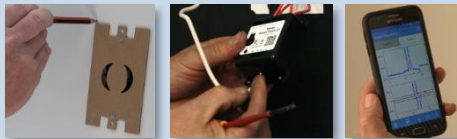
1. Attach the Smartlink connector to the first coat of SmartTouch conductive coating (step 3 above)
2. Electrical connections to lights are carried out by an electrician holding a current practicing license
3. Configure the system using the InstallationApp (iOS and Android 5.1 and above)

Tap to turn lights on and off

Use the built-in default Touch Commands, or Touch Commands selected from the Installation App options menu, to control lighting

Default Touch Commands are:

- Double-Tap
- Triple-Tap
- Tap + Press



System Configuration Options

- Simple on-off using default or selected Touch Commands
- Multi-way switching with existing lightswitches and/or other SmartTouch controllers
- Timer (lights off after 1 min to 4 hours)
- Remote switching – switch lights connected to other SmartTouch controllers

USER

Default operation has three Touch Commands as indicated in the following table. Setting customised Touch Commands overrides default settings.

SmartTouch S1 Default Touch Command Recognition

Active Surfaces	Touch Command	Response
1	Double-Tap	Load 1 toggle
	Triple-Tap	Load 2 toggle (if present)
	Tap and Press*	Toggle All**
2 (independent)	Double-Tap	Load 1 (surface 1) or Load 2 (surface 2) toggle
	Tap and Press*	Toggle All**
2 (two-way mode)	Double-Tap	Load 1 toggle
	Tap and Press*	Toggle All**

*Single Tap, remove hand then gently press the surface until lights are activated.

**If all controlled lights are on or off this Touch Command will toggle them all on/off. If fewer than the maximum number of controlled lights are on, this Touch Command will switch them off. Where a single load is connected this command toggles the load.

Larger contact areas produce larger signals; it is recommended that the pads of several fingers are used to enter Touch Commands during installation testing. A smaller contact area can be used on smaller active surfaces. A short delay before switching will occur after a Touch Command is entered. This is normal and is due to the system waiting for other touches which may be part of a longer Touch Command and for internal signal verification processing.

PAINTER/DIY


Resene SmartTouch conductive coating is applied like any other waterborne coating. It is a basecoat which will be covered with Resene Spacecote or Lustacryl for a durable finish. Resene SpaceCote Clear can also be used as the final coat. Read the painting instructions on the SmartTouch conductive coating datasheet for full details and follow the design rules for coating the area which will be touched (Active Area).


To help the electrical installation, attachment of the Smartlink cable when applying the final coat of SmartTouch conductive coating should be carried out.

- Keep areas less than two square metres and stripes at least 400 mm wide
- Use Resene #1 (2 coats) or #4 (3 coats) roller sleeves

- Feather out edges to make the installation invisible when overcoated or accentuate to identify the Active Area
- Don't paint over **earthed** metals - the system may not function
 - nails and screws into timber framing are OK
 - wall linings over steel framing, steel-reinforced concrete and structural steel are not OK in most circumstances
- take care to avoid painting on to metal mounting frames and brackets used to hang wall linings as these are commonly earthed
- Make sure that SmartTouch conductive coating is not applied in areas directly where electrical equipment is to be installed e.g. beneath lights, heatpumps etc, and that when applied by switchplates there is at least a 6 mm gap between the coating and metal parts such as screws and backing plates (use supplied templates to provide this clearance)
- Consult the electrical installer to make sure the Active Area and Smartlink locations will be in appropriate locations for wiring

ELECTRICIAN

- 1  Follow the installation instructions contained with the SmartTouch S1 controller or download from the Resene website.

- 2  Configure the controller using the installation app (Android 5.1+ or iOS).

See the Resene website for additional details and overview videos.

- a Smartlink cable connects the painted surface to the SmartTouch S1 electronic controller
- Smartlink cables are commonly pre-installed during coating application using brass pins and the conductive coating as an adhesive

- Smartlink installation can occur at time of wiring (SmartTouch conductive coating must be available)
- attach supplied mastic tape to the Smartlink connection point for increased strength and protection
- RCD's are required where SmartTouch is installed
- use the installation app for a full range of setup options and features

Controller Inputs



W1/W2	Inputs for Active Areas coated with Resene SmartTouch conductive coating
S1/S2	Inputs for two-way switching (sensing energised state of external switch)
FE	Functional earth. Not required when installing according to wiring diagrams

Specifications

Input Voltage:	240 VAC
Frequency:	50 Hz
Standby Power Consumption:	1.1 W
Number of channels	2
Rated load current (Resistive)	10 A max (combined channels). 8 A max per individual channel.
Rated load current (Fluorescent)	10 A max (combined channels). 8 A max per individual channel.
Rated load (LED)	500 W per channel
Minimum Load	5 mA
Switching Element:	Micro gap (μ) relay
Operating Temperature:	0°C to +35°C
Dimensions:	75 (H) x 54 (W) x 26 (D) mm
Terminal Wire Area:	1.0 to 2.5 mm ²
Wireless Protocol:	Bluetooth Low Energy (BLE)
Wireless Range:	10-20 m (indoor)
Device Control:	Touch command, switch, BLE, Timer (1 min to 4 hours)
Complies with:	RoHS, AS/NZS 3100, AS/NZS 60669.2.1 (electrical and EMC), FCC Part 15.247 (EMC), AS/NZS 4268:2017 (EMC)

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Wiring



Wiring diagrams and instructions are included with the SmartTouch S1 electronic controller.