RF Control iNELS®

Wireless Control Systems

CLiCK iNELS®

Transmitters
Combined Modules
Modules
Accessories

iNELS®

Leading the way in intelligent automation

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Why Click INELS Wireless?

Significant energy savings

- Complete control and regulation of your heating and lighting means energy is only consumed when needed - reducing your energy bills and your carbon footprint.

Simple & flexible installation

- No additional cables or wall cutting needed. Receivers can be installed behind light fittings or into suitable installation boxes

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- Flexible positioning makes RF Control ideal for installation within existing or newly constructed buildings. With RF Control, you can move switches freely and re-locate when required. Switches can be mounted on glass, wood or walls etc.
- Transmitters are powered by battery and so do not require any wiring or additional power supply.
- Universal input transmitter converts up to 4 push-button switches - enabling existing devices to be connected to the system.
- Operates on 868MHz frequency band which provides robust communications.

Complete control

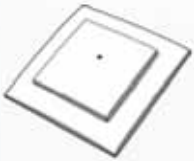
- Allows portable and remote control up to a distance of 200m
- Control and adjustment of lights, on/off or create lighting scenes.
- Control shutters, blinds, gates, latches and garage doors
- Manual or automatic control
- Monitor window or door opening
- Simulate occupancy when you are away from home

Range Overview

Transmitters RF

Basic

RFWB-20/G



2 Channel Switch Controller

RFWB-40/G

4 Channel Switch Controller

RF KEY

4 Channel Remote Switch Controller Key Fob

Moderate

RFIM-40B

4 Channel Universal RF Switch Adapter

RF Pilot

40 Channel Remote Control

TP-83

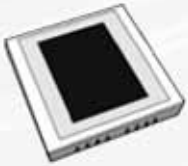
Wireless Room Thermostat

RFTC-10G

Temperature Regulator

Advanced

RF TOUCH



Advanced Control of Multiple RF Devices

RFTI-10B

Wireless Thermo-Sensor

JA-82M

Wireless Window/ Door Contact

JA-83P

RF Compact PIR Sensor (Indoor use only)

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Range Overview

Receivers

Basic

RFDEL-71B

Multifunctional Dimming Actuator c/w Switch Input

RFSAI-61B

1 Channel Multifunctional Switching Actuator c/w Switch Input

RFSA-61M

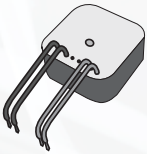
1 Channel Multifunctional Switching Actuator with Antenna

RFSC-61/B

13A Switching Socket

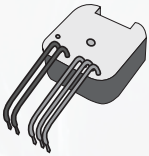
Moderate

RFJA-12B/24V DC



Shutter Actuator (24V DC)

RFDAC-71B



Dimming Actuator 1-10V Analogue Output

RFSA-62B

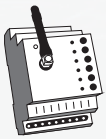
2 Channel Switch Actuator

RFJA-12B/230V

Shutter Actuator 230V AC

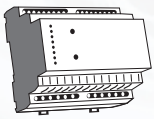
Advanced

RFSA-66M



6 Channel Multifunctional Switch Receiver

DIM-6



2000W Remote dimmer unit

RFRP-20/B

Signal Repeater (with un-switched 13A power outlet)

Typical Installations

Each installation will require at least:

1 x Transmitter RF

1 x Receiver RF

For a simple switching circuit all you need is a transmitter (switch or remote) and a receiver (also referred to as an actuator). More complex installations will utilise multiple units and multiple types of unit. The following illustrations detail a few examples of installations of varying complexity.

Basic

You will need:

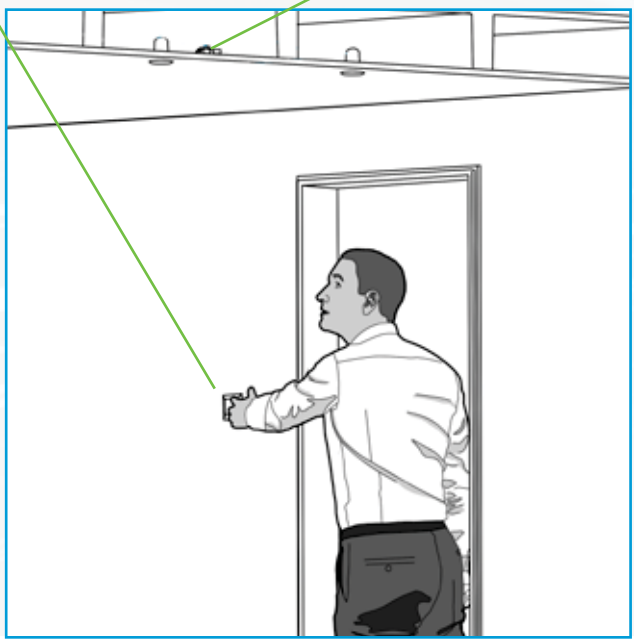
RFWB-20/G
(2 Channel Switch)

RFSA-61B
(Switching Actuator)

Connect the receiver to the lighting circuit, usually connected inside an adaptable box and placed into the ceiling void. The unit will require a permanent live and neutral feed.

Fix the switch to standard single gang back-box or use the sticky pads provided to fix the switch to any surface.

Up to 32 transmitters (switches) can be paired with a single receiver (actuator), making it simple to create complex switching circuits.



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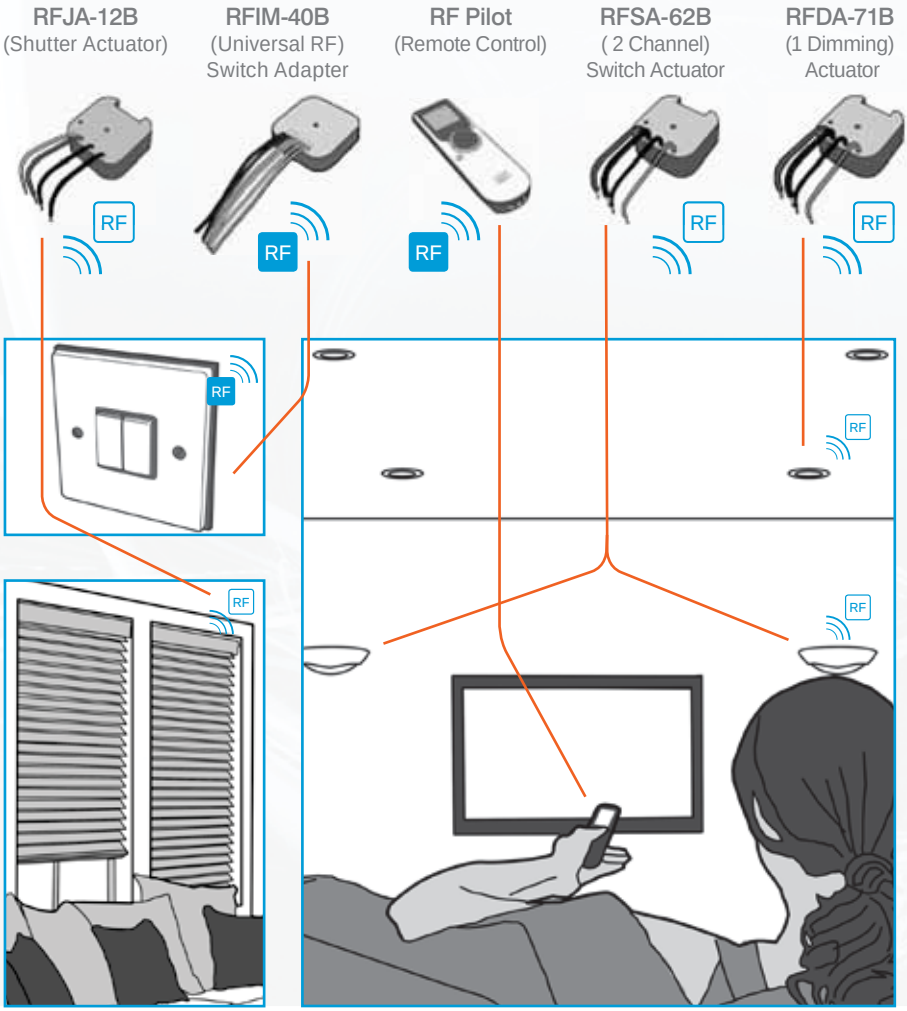
Typical Installations

Moderate

Guideline installation:

This setup utilises the RF Pilot to give the user full control of up to 40 actuators. The setup demonstrates the use of dimming actuators, 2-channel switching actuators and shutter actuators. The setup also indicates the use of the Universal RF switch adapter used in conjunction with Click Deco Mini-grid modules in order to match decorate switches throughout the installation.
With the RF Pilot, the user can set scenes that control groups of receivers.



Typical Installations

RF TOUCH

Advanced

All controlled from a single point.

Simulated Occupancy

The RF Touch allows you to set daily and weekly programs for multiple groups of actuators allowing you to create complex routines that will run whether you are at home or away.

These routines can also be used effectively to save energy around the home, by ensuring your devices are switched off when they are not required.

Scene Setting

The RF Touch, as well as the RF Pilot, can group multiple actuators together and allow you to quickly set them to a predetermined level or status.
For example:
The User creates “Movie Mode” which dims multiple zones of lights via a dimming actuator and switches off another zone via a switching actuator.
Also useful for setting “master off” functions.

Heating Control

The RF Touch presents an interface that can allow the user to connect a temperature sensor to a switching actuator that can in turn be connected to a number of heating appliances.
This action combined with a weekly/daily program can allow the user to control the heating appliance based on both temperature and time.

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Typical Installations

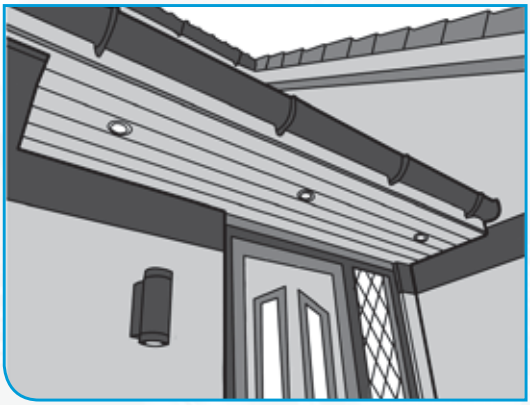
Door / Window Status Feedback

Monitor the status of windows and doors on your property. Combine this function with a switching or dimming actuator to create a circuit that activates or deactivates when the door or window is open or closed.

Garage Doors

Use Shutter actuators and a key fob to control garage doors or gates remotely.

Can also be used with RF Touch, RF Pilot and other wall-mounted switches.



Lighting Control

Create remote control outdoor lighting circuits to enable the user to switch the lights on or off when approaching or leaving the property.

Temperature Monitoring

The RF Touch can be connected to a number of thermostat devices and display their results on screen.
This allows the user to get temperature feedback on any room or even outdoors.

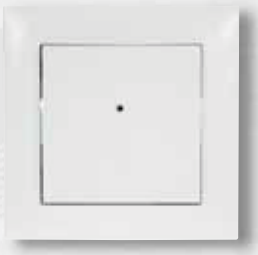
Transmitters

Wireless Switches | Key Fob | Universal Module
Temperature Regulator | Thermo-Sensor &
Thermostat | Window Door Contact |
Remote Controller

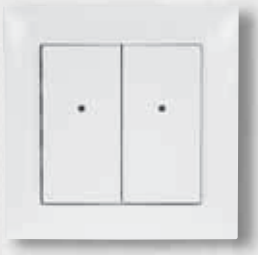
Transmitters are RF system devices powered by batteries and are used for controlling receivers.

Transmitters

Wireless Switch | Key Fob | Universal Input Transmitter



RFWB-20/G



RFWB-40/G

RF KEY-W

RF KEY-B

RFIM-40B

Transmitters

RFWB-20/G	Wall 2-Channel Controller
RFWB-40/G	Wall 4-Channel Controller
RF KEY-W	4-Channel Remote Key Fob - White
RF KEY-B	4-Channel Remote Key Fob - Black
RFIM-40B	Universal Input Transmitter (Use With Standard Centre 'Off' Retractive Switches)

Cable Length: 90mm **Standards:** EN 60669, EN 300220, EN 301489
Dimensions: RFWB-20/G, RFWB-40/G: 85mm x 85mm x 16mm **RF KEY:** 64mm x 25mm x 10mm
RFIM-40B: 49mm x 49mm x 13mm **Battery Type:** CR 2032

Transmitters

Temperature Regulator | Thermo-Sensor & Thermostat | PIR Sensor

RFTC-10G

* RFTI-10B

AN-E

TP-83

RFSG-1M

* For use with RF Touch unit only

Transmitters

RFTC-10G	RF Transmitter: Zone / Room Temperature Regulation / Measuring Device
RFTI-10B	* RF Transmitter: Wireless Thermo-Sensor
TP-83	Hand held Room Thermostat / 24 Hour 7 Day Time Programmer
RFSG-1M	230V Single Channel Switch Transmitter (Din Rail Mount) Transmits a continuous signal with input status ON or OFF. Programs to function 1 of switching actuators.
AN-E	External Antenna (3m fitted cable) For use with RFSA-61M, RFSA-66M & RFSG-1M

For thermo-sensor accessories see page a22

Standards: EN 60669, EN 300220, EN 301489 **TP-83:** EN 50130-4, EN 55022, EN 60950-1
Dimensions: **RFTC-10G:** 85mm x 85mm x 20mm **RFTI10B:** 49mm x 49mm x 13mm **TP-83:** 66mm x 90mm x 22mm
RFSG-1M: 90mm x 17.5mm x 64mm **Battery Type:** **RFTC-10G:** AAA (x2), **RFTI-10B:** CR 2477 (x1), **TP-83:** AA (x1)

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Transmitters

Window Door Contact | Remote Controller | Window Door Contact

JA-82M

JA-83M

JA-83P

RF PILOT

Transmitters

JA-82M	Hand held Window / Door Contact
JA-83M	RF Magnetic Door/Window Surface Contact
RF PILOT	Hand held 40 Channel Remote Controller
JA-83P	RF Compact PIR Sensor (Indoor use only)

Standards: **JA-82M:** EN 50130-4, EN 55022, EN 60950, EN 60669, EN 300220, EN 301489
Dimensions: **JA-82M:** 25mm x 192mm x 9mm, **JA-83M (Main):** 31mm x 75mm x 23mm, **(Magnet)** 16mm x 56mm x 15mm
JA-83P: 60mm x 85mm x 55mm, **RF PILOT:** 41mm x 130mm x 18mm
Battery Type: **JA-82M:** CR 2354 (x2), **JA-83M, JA-83P:** CR 123A (x1), **RF PILOT:** AAA (x2)

Combined Modules

Central Unit | Switching Actuator With Thermo-Sensor

Combined units are both transmitting & receiving devices in the RF control system.

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Combined Modules

Wireless Central Unit | Wireless Switching Actuator

RFT-WBK (RF Touch)

RFT-WWH (RF Touch)

RFSTI-11B

* For use with RF Touch unit only

Combined Modules

RFT-WBK	Wireless Touch Screen Controller - Black (RF Touch)
RFT-WWH	Wireless Touch Screen Controller - White (RF Touch)
RFSTI-11B	* 16A Wireless Switching Actuator With Thermo-Sensor

For thermo-sensor accessories see page a22.

RF Touch supplied with DC Adaptor. Can be hard wired into the rear of the unit via 230V supply.

Standards: **RF Touch:** EN 60730, **RFSTI-11B:** EN 60669, EN 300220, EN 301489
Dimensions: **RF Touch:** 94mm x 94mm x 24mm **RFSTI-11B:** 49mm x 49mm x 21mm

Receivers

Switching Actuator | Dimming Actuator
Shutter Actuator | Analogue Actuator

Receivers are available in three categories - switching actuators, dimming actuators and shutter actuators

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Receivers

Switching Actuator

RFSA-61B

RFSA-62B

RFSAI-61B

AN-E

RFSC-61

RFSA-61M

RFSA-66M

Receivers	
RFSA-61B	16A 1 Channel Multifunction Switching Actuator
RFSA-62B	8A 2 Channel Multifunction Switching Actuator
RFSAI-61B	16A Switching Actuator C/W Control Input Can utilise retractive switch in conjunction with the 3V DC switch input.
RFSA-61M	16A 1 Channel Multifunction Switching Actuator
RFSA-66M	8A 6 Channel Multifunction Switching Actuator
RFSC-61	13A 240V Switching Socket
AN-E	External Antenna (3m fitted cable) For use with RFSA-61M, RFSA-66M & RFSG-1M

Standards: EN 60669, EN 300220, EN 301489, **RFSC-61:** BS1363

Dimensions: **RFSA-61B, RFSA-62B, RFSAI-61B:** 49mm x 49mm x 21mm, **RFSC-61:** 60mm x 12mm x 80mm

RFSA-61M: 90mm x 17.5mm x 64mm, **RFSA-66M:** 90mm x 52mm x 65mm

Cable Length: **RFSA-61B, RFSA-62B, RFSAI-61B:** 90mm **Relay Current Ratings:** AC1

Receivers

Dimming Actuator

RFDA-71B

RFDEL-71B

RFDAC-71B

DIM-6

Receivers

RFDA-71B	40-250VA 1 Channel Multifunction Dimming Actuator
RFDEL-71B	160Va 1 Channel Multifunction Dimming Actuator C/W Control Input Compatible with most dimmable LED light sources. Will dim up to 160W of LED. Can utilise retractive switch in conjunction with the 230V~ switch input.
RFDAC-71B	16A 1 Channel Multifunction Dimming Actuator Complete With 0-10V Or 1-10V Analogue Output
DIM-6	2000W Remote Dimmer Unit Must be used in conjunction with RFDAC-71B or other 0(1)-10V analogue input

Standards: EN 60669, EN 300220, EN 301489
Dimensions: **RFDA-71B, RFDEL-71B, RFDAC:** 49mm x 49mm x 21mm, **DIM-6:** 105mm x 90mm x 65mm
Cable Length: **RFDA-71B, RFDEL-71B, RFDAC-71B:** 90mm

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RFJA-12B/230V

RFJA-12B/24V

Receivers

RFJA-12B/24V	Shutter Actuator (DC) 12-24V
RFJA-12B/230V	Shutter Actuator (AC) 230V

Standards: EN 60669, EN 300220, EN 301489
Dimensions: **RFJA-12B/230V:** 49mm x 49mm x 21mm, **RFJA-12B/24V:** 49mm x 49mm x 13mm
Cable Length: 90mm

Repeater

Signal Repeater

RFRP-20/B

Receivers

RFRP-20/B 240V Signal Repeater (with un-switched 13A power outlet)

Extends the range by up to 200 metres for up to 20 receivers

Standards: EN 60730 / BS1363 **Dimensions:** 60mm x 12mm x 80mm

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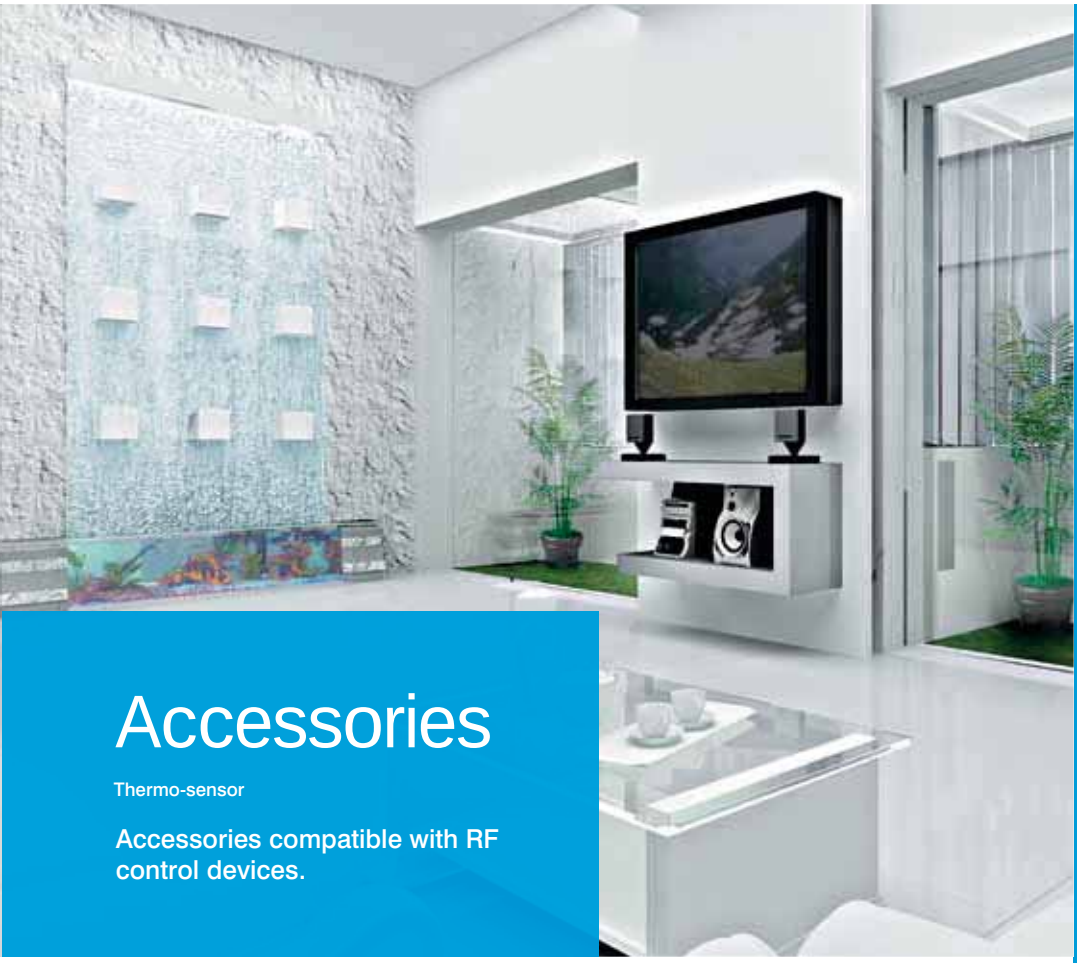


Accessories

Thermo-sensor

Accessories compatible with RF control devices.

TC

TZ

Accessories (Heat Resistant PVC)

TC-3	Temperature Sensor 3 m (9.8´)
TC-6	Temperature Sensor 6 m (19.7´)
TC-12	Temperature Sensor 12 m (39.4´)

0°c > 70°c

Accessories (Silicone)

TZ-3	Temperature Sensor 3 m (9.8´)
TZ-6	Temperature Sensor 6 m (19.7´)
TZ-12	Temperature Sensor 12 m (39.4´)

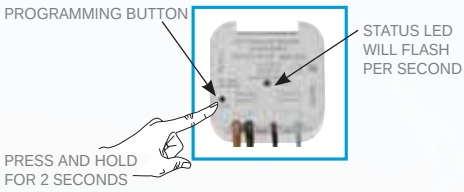
-40°c > 125°c

Programming

Follow these very simple, easy to follow instructions when programming functions:

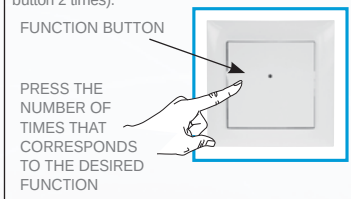
STEP 1 - ACTIVATE

Press & hold the 'programming' button on the receiver for 2 seconds (the status LED will flash with a 1 second interval).



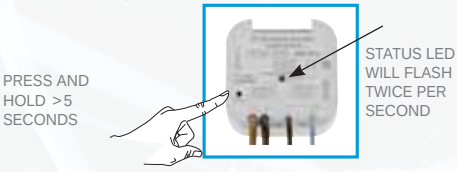
STEP 2 - SELECT FUNCTION

To assign the chosen transmitter device button & function, press the required button the number of times to match the function number required at one second intervals - SEE TABLE 1 on opposite page (e.g for transmitter function 2, press the button 2 times).



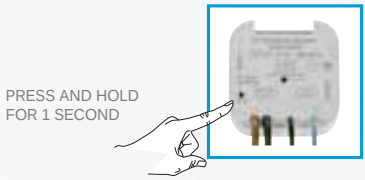
STEP 3 - ONLY REQUIRED FOR FUNCTION 5 & 6 FOR ALL OTHER FUNCTIONS GO TO STEP 4

To set the time element, press & hold the 'programming' button again for >5 seconds (the status LED will flash twice in a 1 second interval). THE TIMER HAS NOW STARTED. When the required time period has elapsed, press the previously assigned transmitter button (IN STEP 2)once to confirm.



STEP 4 - SAVE AND EXIT

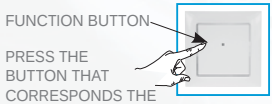
To exit programming mode press the 'programming' button for 1 second only.



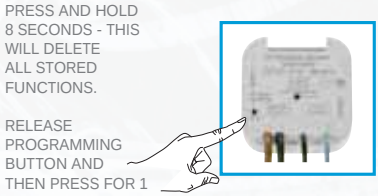
TO DELETE A SINGLE FUNCTION

STAGE 1

STAGE 2



TO DELETE ALL STORED FUNCTIONS



Switching & Dimmer Functions

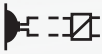
Switching Functions

Function 1	Press button	Press for ON, release for OFF
Function 2	'On' button	Press for ON
Function 3	'Off' button	Press for OFF
Function 4	On/Off button	Press for ON, press again for OFF
Function 5	'Off' delay	Press for ON, device will turn off after pre-determined time period as set in step 3 of programming (2 secs - 30 mins max)
Function 6	'On' delay	Press to start timer. 'On' delay will be as pre-determined in step 3 of programming (2 secs -30mins)

Dimmer Functions

		Press button and release	Press button and hold
Function 1	Scene recall / OFF	Press to recall scene, press to turn OFF	Press button for more than 1 second to set scene brightness
Function 2	Scene recall / OFF - anti-tamper	Press to recall scene, press again to turn OFF	Press button for more than 3 seconds to set scene brightness (avoids accidental scene setting)
Function 3	Scene recall - fade ON / fade OFF - push to recall scene	Press to recall scene	Press button for more than 1 second to set scene brightness
Function 4	Scene recall / fade OFF	Press to recall scene	Press button for more than 1 second to set scene brightness
Function 5	Variable fade up to Max. (user definable)	Press to start fade up time to maximum brightness	N/A
Function 6	Variable fade down to OFF. (user definable)	Press to start fade down to OFF	N/A
Function 7	ON/OFF	Press once for ON, press again for OFF	N/A

Load types

R - RESISTIVE 	L - INDUCTIVE 	C - CAPACITIVE 

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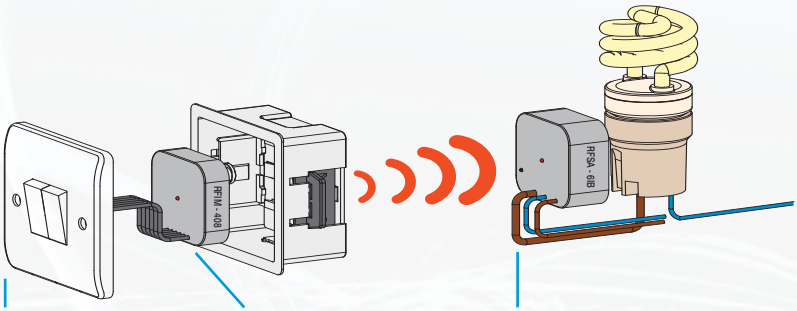
Installation Guidelines

To ensure correct and safe operation of a device please follow the installation guidelines below:

- Do not install into an exterior or wet environment
- Ensure sufficient cooling for dimmer loads nearing 250VA - Each receiver has an internal over temperature protection which will switch the device output off when the system is overloaded
- Do not install RF components into metal and steel distribution boards as this will reduce the radio-frequency signal
- The range of radio signal within the RF Control system depends on building construction and physical location of the devices - see table 1 below
- Do not connect inductive and capacitive loads to one device at the same time - see table 2 on previous page.

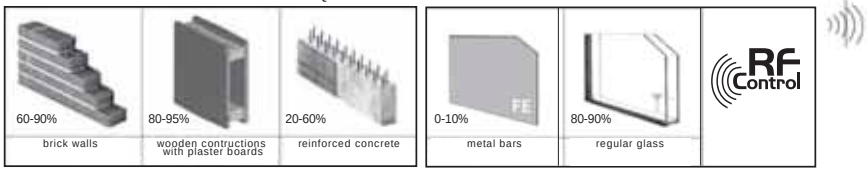


Standard accessory plate fitted with retractive switch modules

Universal input module RFIM-40B

Switching actuator (receiver) RFSA61-B

Table 1 TRANSMISSION OF RADIO-FREQUENCY SIGNALS THROUGH VARIOUS MATERIALS



Notes

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