DEVELOPER EDITION

TOTAL LIFESTYLE SOLUTION

AUGUST 8, 2014

CARROT

IMPORTANT NOTES

HOW TO USE THIS CATALOG

This catalog details the general specification for your Carrot Products. This general specification is subject to changes without notice.

PRODUCT SAFETY

All Carrot RF, Electronic Switches comply with EN/IEC60669-2-1. All Carrot mechanical switches comply with EN/IEC60669-1. All RF Carrot Products operates at a RF frequency of 433.05 to 434.79 MHz. Please contact local sales representatives for specifications in various countries. The effective radiated power of the Products does not exceed 10mW.

WARRANTY

All Carrot Products come with a one-year, equipment-only warranty. The Manufacturer shall not be liable to honor the terms of this warranty if the Products have been used in any application other than that for which they were intended, or if they have been subjected to misuse, abuse, accidental and intentional damage, modification, improper wiring, improper repair, incorrect repair, improper installation procedures or storage/operating under improper conditions. For the avoidance of doubt, normal wear and tear is not covered under this warranty.

5” CARROT TOUCH
LA3-TBL5D

The multimedia touch screen tablet has a 5” LCD display that provides video intercom to visitors and caretakers, and features a consistent look-and-feel with all Carrot Products. It allows end users to open gate remotely for visitor, as well as other advanced features such as visitor image recording function. The end user can also control and set up the home automation functions via the touch screen, including control of household appliances via the onboard IR emitter. Infra-red control codes for the appliances can be learned using the onboard IR learner. The unit has built-in panic alarm button on touch screen and is capable of interfacing to security systems via other Carrot accessories.

PRODUCT FEATURES

- 5” Touch Screen Portable Video Doorphone with power adapter and charging station included
- Visitor image recording
- Home automation system control and setup
- Activate Scenario
- Time Scheduling
- Universal IR Remote Controller
- English and Chinese Language Interface
- Digital Picture Frame when Docked
- Built-in panic alarm button
- Other optional applications, such as, IP camera viewing, call lift, arm/disarm alarm system, clubhouse booking, community short message and notice board functions are available.

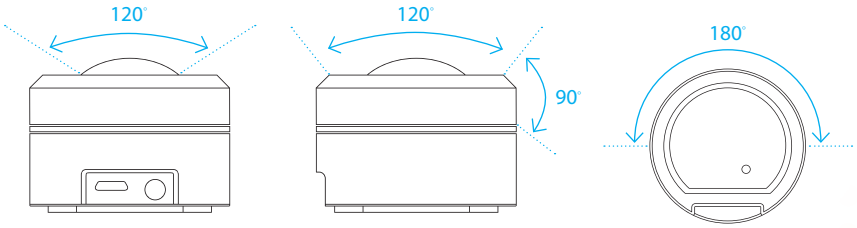
TECHNICAL INFORMATION	
Catalogue Number	LA3-TBL5D
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Resolution	800 x 480 Landscape Mode
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Connectivity	Wireless LAN
Video intercom function	Yes
Speaker and microphone	Yes
Wall mount with charger (Optional)	LA3-TBLWM-W (Purchase seperately)
Color	White: LA3-TBL5D-W
Compliance	IEC 60950-1

IR-REPEATER
LA3-RPT1

The Carrot IR Repeater enables the whole-house control of appliances using IR signals. From anywhere at home with your Carrot Touch, Android or iOS devices, you can easily control any appliances within line of sight from the Carrot IR Repeater. A few strategically placed IR Repeaters will give you complete control of your home within minutes.

PRODUCT FEATURES

- Long IR emission range up to 10 m
- Repeating RF C-Wave signals to widen RF coverage within the premise
- Enable scenario function for IR commands
- Auxiliary output for wired IR emitter
- User-friendly setup and pairing
- Compact design that can be used in a AV cabinet to control hidden equipment
- Included dedicated power adapter (IR repeater must be used with the included power adapter)



– (IR view angle)

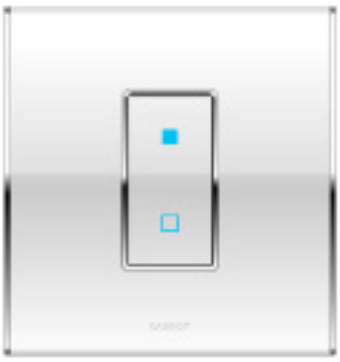
Device must be powered by official adapter only. It may be damaged by incorrect adapter.

TECHNICAL INFORMATION	
Catalogue Number	LA3-RPT1
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Infrared Line-of-Sight Coverage	10 meters
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
External IR emitter	Yes
C-Wave® Network Repeating feature C-Wave®	Yes
Compliance	IEC 60950-1

LIGHT DIMMER–1 GANG

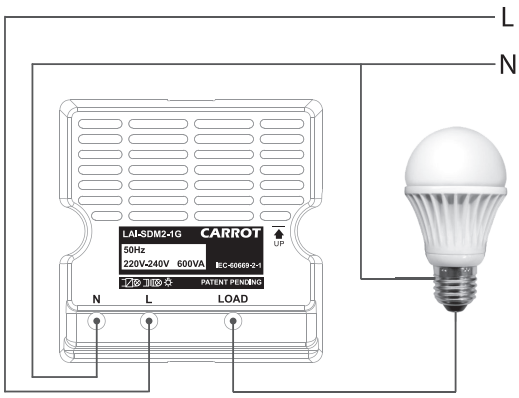
LAI-SDM2-1G

The exquisitely finished electronic dimmers come in one-gang and two-gang configurations. They communicate with all Carrot electronic products via advanced two-way radio frequency communication to give reliable and accurate control over your electrical systems. They can be used for dimming incandescent and compatible dimmable low voltage halogen and fluorescent lamps.



PRODUCT FEATURES

- Fully compatible with British Standard wall boxes with 2 mounting holes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control lighting circuit on/off locally as well as by remote control.
- User-friendly setup and pairing

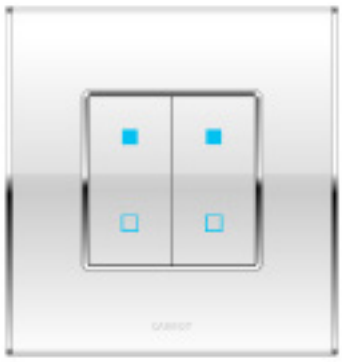


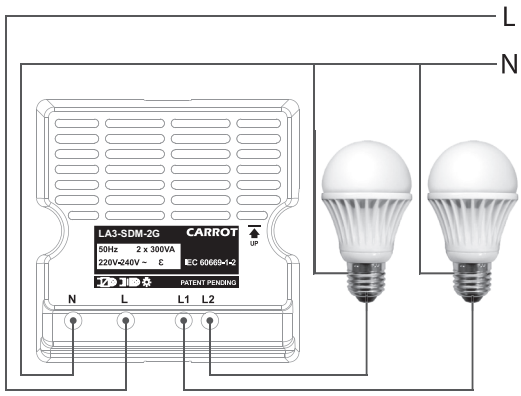
Connect another switch between dimmer and lamp is not allowed.

TECHNICAL INFORMATION	
Catalogue Number	LAI-SDM2-1G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	Incandescent and compatible dimmable low voltage halogen and fluorescent lamps (For CFL and LED lamp, dimmable version is required. Please consult lamp compatibility from manufacturer)
Backlit, Backlit Color	Yes, Blue
Load Rating	600VA@220VAC With Power Factor = 1.0
Minimum Load	/
Mounting Centres	60.3mm Contains 2 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

LIGHT DIMMER–2 GANG

LA3-SDM-2G





Connect another switch between dimmer and lamp is not allowed.

The exquisitely finished electronic dimmers come in one-gang and two-gang configurations. They communicate with all Carrot electronic products via advanced two-way radio frequency communication to give reliable and accurate control over your electrical systems. They can be used for dimming incandescent and compatible dimmable low voltage halogen and fluorescent lamps.

PRODUCT FEATURES

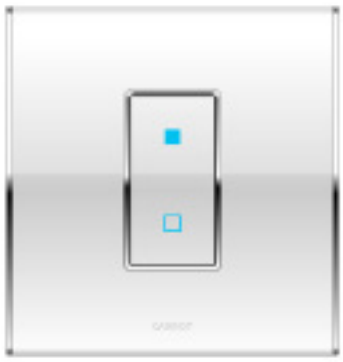
- Fully compatible with British Standard wall boxes with 2 mounting holes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control lighting circuit on/off locally as well as by remote control.
- User-friendly setup and pairing

TECHNICAL INFORMATION	
Catalogue Number	LA3-SDM-2G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	Incandescent and compatible dimmable low voltage halogen and fluorescent lamps (For CFL and LED lamp, dimmable version is required. Please consult lamp compatibility from manufacturer)
Backlit, Backlit Color	Yes, Blue
Load Rating	250VA@220VAC With Power Factor = 1.0
Minimum Load	/
Mounting Centres	60.3mm Contains 2 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

LIGHT SWITCH–1 GANG

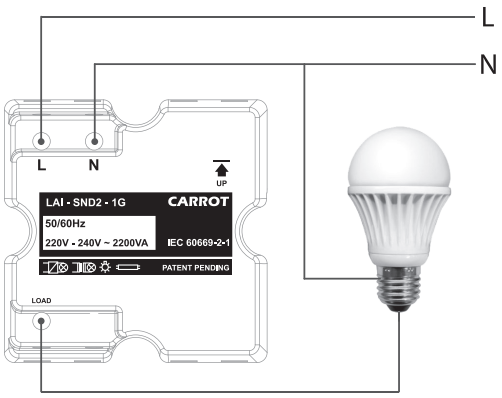
LAI-SND2-1G

The exquisitely finished electronic switches come in one-gang and two-gang configurations. They communicate with all Carrot electronic products via advanced two-way radio frequency communication to give reliable and accurate control over your electrical systems. They can be used for switching lighting circuits, fans, and other motor loads.



PRODUCT FEATURES

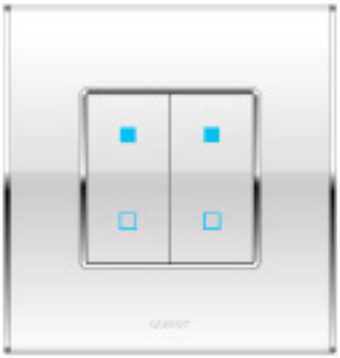
- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control lighting circuit on/off locally as well as by remote control.
- User-friendly setup and pairing

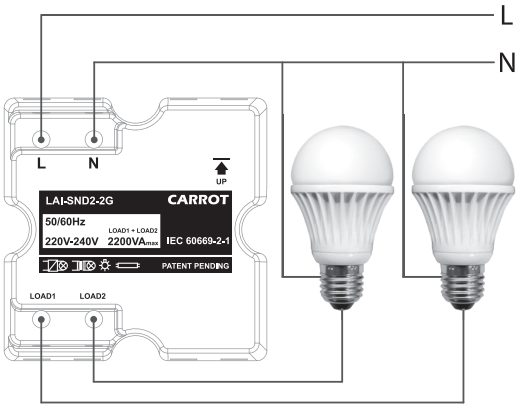


TECHNICAL INFORMATION	
Catalogue Number	LAI-SND2-1G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	Low voltage halogen, incandescent and fluorescent lamps
Backlit, Backlit Color	Yes, Blue
Load Rating	2200VA@220VAC With Power Factor = 1.0
Minimum Load	/
Mounting Centres	60.3mm Contains 4 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

LIGHT SWITCH–2 GANG

LAI-SND2-2G





The exquisitely finished electronic switches come in one-gang and two-gang configurations. They communicate with all Carrot electronic products via advanced two-way radio frequency communication to give reliable and accurate control over your electrical systems. They can be used for switching lighting circuits, fans, and other motor loads.

PRODUCT FEATURES

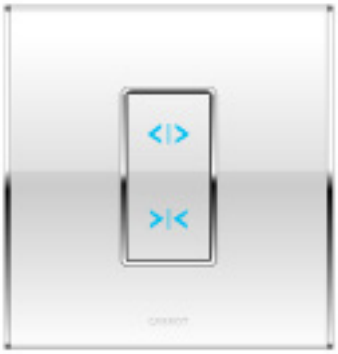
- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control lighting circuit on/off locally as well as by remote control.
- User-friendly setup and pairing

TECHNICAL INFORMATION	
Catalogue Number	LAI-SND2-2G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	Low voltage halogen, incandescent and fluorescent lamps
Backlit, Backlit Color	Yes, Blue
Load Rating	Load 1 + Load 2 ~= 2200VA max. (at 220VAC) Load can be shared with any separate ratio. With Power Factor = 1.0
Minimum Load	/
Mounting Centres	60.3mm Contains 4 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

CURTAIN SWITCH–1 GANG

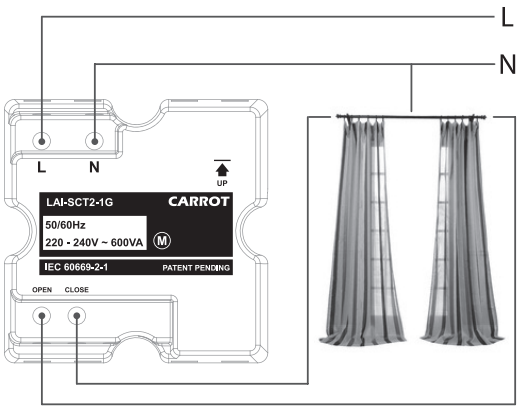
LAI-SCT2-1G

The exquisitely finished electronic curtain switch comes in one-gang and two-gang configurations. There are blue LED indicators on the buttons to indicate the motor running status (whether opening or closing). They communicate with all Carrot products via advanced two-way radio frequency communication to give reliable and accurate control over your curtains, blinds, projector screens and other 3-wire motor loads.



PRODUCT FEATURES

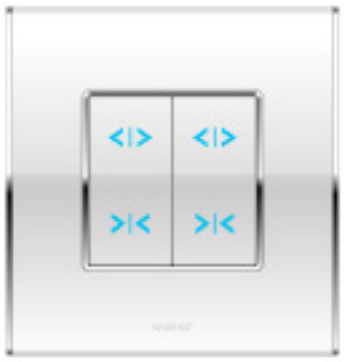
- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control motor locally as well as by remote control.
- User-friendly setup and pairing

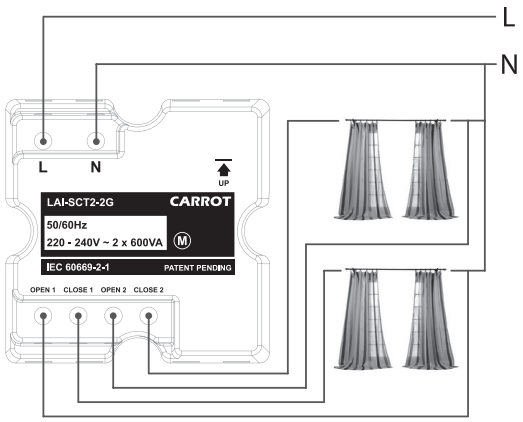


TECHNICAL INFORMATION	
Catalogue Number	LAI-SCT2-1G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	220-240 VAC motor load (3-wire)
Backlit, Backlit Color	Yes, Blue
Load Rating	600VA@220VAC
Minimum Load	10VA@220VAC
Mounting Centres	60.3mm Contains 4 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

CURTAIN SWITCH–2 GANG

LAI-SCT2-2G





The exquisitely finished electronic curtain switch comes in one-gang and two-gang configurations. There are blue LED indicators on the buttons to indicate the motor running status (whether opening or closing). They communicate with all Carrot products via advanced two-way radio frequency communication to give reliable and accurate control over your curtains, blinds, projector screens and other 3-wire motor loads.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to control motor locally as well as by remote control.
- User-friendly setup and pairing

TECHNICAL INFORMATION	
Catalogue Number	LAI-SCT2-2G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	220-240 VAC motor load (3-wire)
Backlit, Backlit Color	Yes, Blue
Load Rating	2 x 600VA@220VAC
Minimum Load	10VA@220VAC
Mounting Centres	60.3mm Contains 4 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

MECHANICAL SWITCH–1 GANG

MAI-SMD-1G

The exquisitely finished switches come in one-gang and two-gang configurations. These mechanical switches share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed side-by-side with the electronic counterparts to achieve a consistent look and feel. This switch can be connected as part of a “two-way” lighting circuit.

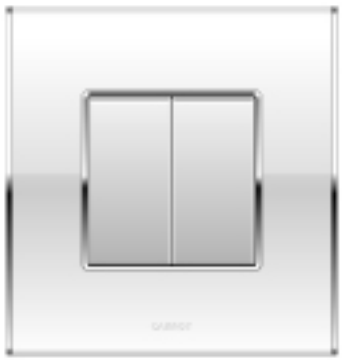
PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Switches for household and similar fixedelectrical installations
- Flush-type Rocker Two-way Switches

TECHNICAL INFORMATION	
Catalogue Number	MAI-SMD-1G
Ratings	10AX 250V~
Mounting Centres	60.3mm
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D)
Compliance	IEC 60669-1

MECHANICAL SWITCH–2 GANG

MAI-SMD-2G



The exquisitely finished switches come in one-gang and two-gang configurations. These mechanical switches share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed side-by-side with the electronic counterparts to achieve a consistent look and feel. This switch can be connected as part of a “two-way” lighting circuit.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Switches for household and similar fixedelectrical installations
- Flush-type Rocker Two-way Switches

TECHNICAL INFORMATION	
Catalogue Number	MAI-SMD-2G
Ratings	10AX 250V~
Mounting Centres	60.3mm
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D)
Compliance	IEC 60669-1

DOUBLE-POLE SWITCH–1 GANG

XG220L

The exquisitely finished mechanical double switch comes in one-gang configuration. This mechanical switch shares a consistent aesthetic design with Carrot series of RF controlled electronic switches. It is designed to be installed side-by-side with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Switches for household and similar fixed-electrical installations
- Flush-type Rocker Double-pole Switches with Lamp

TECHNICAL INFORMATION	
Catalogue Number	XG220L
Ratings	20A 250V~
Mounting Centres	60.3mm
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D)
Compliance	IEC 60669-1

DOUBLE-POLE SWITCH–2 GANG

MAI-SDP2G

The exquisitely finished mechanical double switch comes in two-gang configuration. This mechanical switch shares a consistent aesthetic design with Carrot series of RF controlled electronic switches. It is designed to be installed side-by-side with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Switches for household and similar fixed-electrical installations
- Flush-type Rocker Double-pole Switches with Lamp

TECHNICAL INFORMATION	
Catalogue Number	MAI-SDP2G
Ratings	20A 250V~
Mounting Centres	60.3mm
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D)
Compliance	IEC 60669-1

ELECTRICAL OUTLET–SINGLE

MAI-SPS-1G

The exquisitely finished electrical outlets come in single and twin switched configurations. These electrical outlets share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required

TECHNICAL INFORMATION	
Catalogue Number	MAI-SPS-1G
Switched	Yes
Type Standard	BS 1363

ELECTRICAL OUTLET–TWIN

MAI-SPS-2G

The exquisitely finished electrical outlets come in single and twin switched configurations. These electrical outlets share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required

TECHNICAL INFORMATION	
Catalogue Number	MAI-SPS-2G
Switched	Yes
Type Standard	BS 1363

SOCKET OUTLET–TEL/NETWORK

MAI-LAN-2P

The exquisitely finished socket outlets share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required

TECHNICAL INFORMATION	
Catalogue Number	MAI-LAN-2P
Telephone Socket Type	BS 6312
Network Socket Type	RJ-45

SOCKET OUTLET–TV/FM

MAI-STV-2P

The exquisitely finished socket outlets share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required

TECHNICAL INFORMATION	
Catalogue Number	MAI-STV-2P
FM Frequency Response	88–108 MHz
Television Frequency Response	5–68 MHz, and 124–862 MHz
Socket Type	Coaxial Female IEC 169-2

PANIC ALARM BUTTON

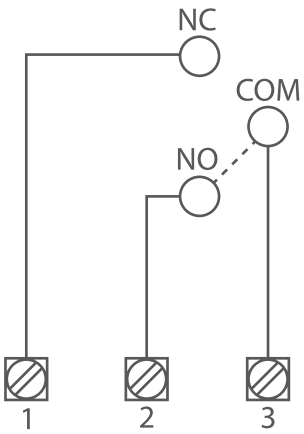
MAI-PAN-1G

The exquisitely finished Panic Alarm Buttons share a consistent aesthetic design with Carrot series of RF controlled electronic switches. They are designed to be installed with the electronic counterparts to achieve a consistent look and feel.

PRODUCT FEATURES

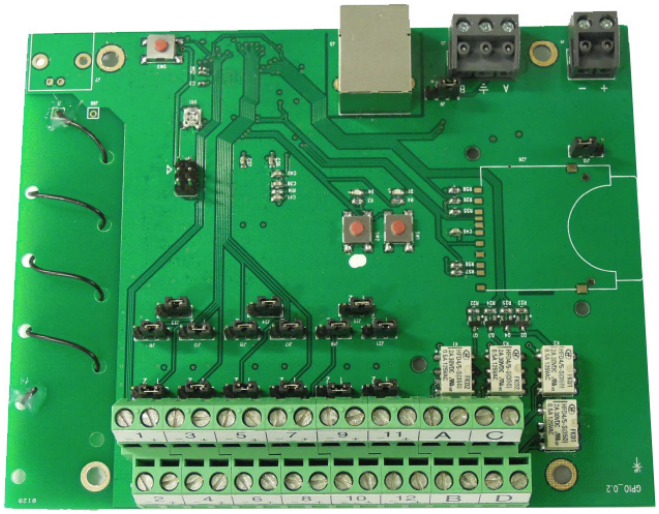
- Fully compatible with British Standard wall boxes, no special mounting accessories required

TECHNICAL INFORMATION	
Catalogue Number	MAI-PAN-1G
Max. Current	5A
Max. Voltage	AC 250V
Key Resetable	Yes, Chrome Electroplated Key included

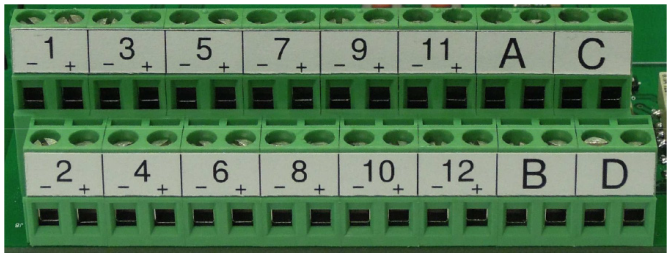


C-GPIO GENERAL PURPOSE CONTROLLER

LAI-GPIO



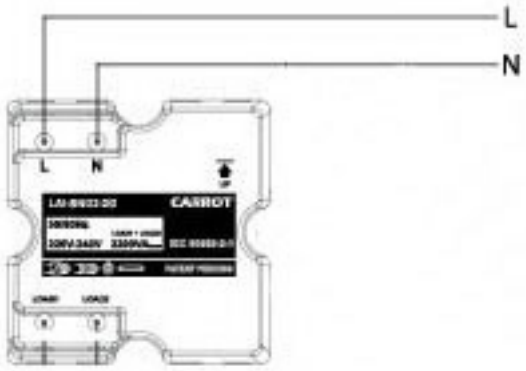
C-GPIO General Purpose Controller is used with Carrot Home Automation Server in a networked installation to provide general-purpose inputs and outputs for control and automation purpose. The C-GPIO is powered by 5V power supply and also contain a C-Wave RF antenna (for working with other Carrot electronic products). Typical applications include transmission of IR control signals, lift control, interfacing to security devices and intercom sounder.



Terminal Block for Port 1 to 12 and Port A to D is shown here

TECHNICAL INFORMATION	
Catalogue Number	LAI-GPIO
Dimension	31 mm (H) x 110 mm (W) x 140 mm (D)
Operating Voltage	5V@250mA
Outputs	Port 1 to 12: • 8 X IR Emitter Output • 4 X 3.3V Digital Input
Communication Technology	Ethernet (TCP/IP, Base10) RF (433.05 – 434.79 MHz)
Connector	RJ45 Ethernet (J3) Terminal Block: Power supply (J6), GPIO (J8)
Button	2x function buttons (SW1 and SW2) for configuration Reset button (SW3)

SCENE SWITCH
LA3-SCN-2G



The exquisitely finished electronic switches come in two-gang configurations. They communicate with all Carrot electronic products via advanced two-way radio frequency communication to give reliable and accurate control over your electrical systems. They can be used for activating preset scenarios.

PRODUCT FEATURES

- Fully compatible with British Standard wall boxes, no special mounting accessories required
- Light touch buttons equipped with LED backlight, allow users to locate the switch in a dark environment.
- Tactile switch
- Built-in RF receiver enables remote switching function
- Distributed intelligent configuration eliminates the requirement for central controllers; users are able to activate up to 4 scenarios preset by engineers.

TECHNICAL INFORMATION	
Catalogue Number	LA3 - SCN - 2G
Line Voltage & Frequency	AC 220 ~ 240VAC, 50Hz/60Hz
Operating Frequency	433.05 MHz–434.79 MHZ
Output RF Power	<10mW
Compatible Loads	Low voltage halogen, incandescent and fluorescent lamps
Backlit, Backlit Color	Yes, Blue
Minimum Load	/
Mounting Centres	60.3mm Contains 4 mounting holes
Dimensions	93 mm (H) x 89 mm (W) x 44 mm (D) Depth of wall box >= 35mm
Operating Temperature Range	0^0–40^0C
Operating Humidity Range	0–95% RH non-condensing
Compliance	IEC 60669-2-1

CARROT