Contents

Introduction

Description

The external receiver is used to remotely control an electrical appliance from inside or outside the premises.

There are three external receiver versions:

Product reference	Supply voltage	Output	Application example
S771-22X	230 V AC	230 V	230 V lighting control
S781-22X	230 V AC	voltage-free dry contact	electrical lock control
S791-22X	12-30 V AC or DC	voltage-free dry contact	garage door control

The programming LED, which can only be seen when the box is open, provides visual help with recognition programming and receiver programming.
It also indicates the status of the device controlled:
• LED on: activated
• LED off: de-activated.

Base

Programming button

Programming LED

Terminal block

Fixing plate
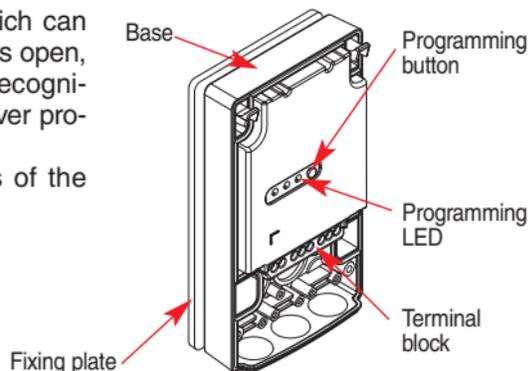
Introduction

There is a choice of control applications as described on the following pages.

Some of these applications may be used simultaneously while others are exclusive applications.
The table below illustrates the combinations possible.

Possible combinations		Exclusive applications	
ON/OFF	Activation on intrusion	Pulse control	System status feedback
Timer	Remote control		
Presence simulation			

Example: an external receiver programmed for ON/OFF control can also be used for Timer or Presence simulation applications.

Standard applications

• **ON/OFF:** for controlling lighting or an electrical appliance using a keypad, multi-functional mobile keypad or remote control with activation and de-activation of the device every time the key is pressed (no activation/de-activation time limit).

Type of remote control	Activating an electrical device	Deactivating an electrical device
	Press on a key programmed for:	Press on a key programmed for:
	• Light ON	• Light OFF
	• Light toggle switch	• Light toggle switch
	• Relay ON 1, 2, 3 or 4	• Relay OFF 1, 2, 3 or 4
	• Toggle switch relay 1, 2, 3 or 4	• Toggle switch relay 1, 2, 3 or 4
	Press on the **Light ON** or **Socket ON** key on the Light page	Press on the **Light OFF** or **Socket OFF** key on the Light page
	These keys can also be programmed for the toggle switch function, in which case the same key is used to activate or deactivate the appliance.	

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• **Timer:** for controlling lighting or an electrical appliance using a keypad, multi-functional mobile keypad or remote control with automatic disarming at the end of the programmed time limit.

Type of remote control	Start timing	Restart timing	Stop timing
	Press on a key programmed for: • Light timer • Timer relay 1 • Timer relay 2 • Timer relay 3 • Timer relay 4	Press again on a key programmed for: • Light timer • Timer relay 1 • Timer relay 2 • Timer relay 3 • Timer relay 4	Press on a key programmed for: • Light OFF • Relay OFF 1, 2, 3 or 4 • Light toggle switch • Toggle switch relay 1, 2, 3 or 4
	Press on the **Light ON** *or* **Socket ON** key on the Light page, **programmed for Timer mode**	Press again on the **Light ON** *or* **Socket ON** key on the Light page, **programmed for Timer mode**	Press on the **Light OFF** *or* **Socket OFF** key on the Light page

The timer is factory-programmed to have a 3-minute time limit. This time limit can be reprogrammed (see *"Programming"* chapter).

Introduction

• **Pulse**: for activating an electrical appliance using a keypad, a multi-functional mobile keypad or a remote control for a time limit of several seconds.

Type of remote control	Electrical appliance activation/de-activation
	Press on the key programmed for Light pulse control: • **Relay 1 pulse control** • **Relay 2 pulse control** • **Relay 3 pulse control** • **Relay 4 pulse control**
	Press on one of the keys on the **Opening** page (see multi-functional mobile keypad manual)

Pulse control recognition programming is exclusive (the initial programming has to be deleted, see *"Programming"* chapter).

 The pulse time limit is factory-programmed for 2 sec. This time limit can be reprogrammed (see *"Programming"* chapter).

Application example: remote control of an electrical lock or gate.
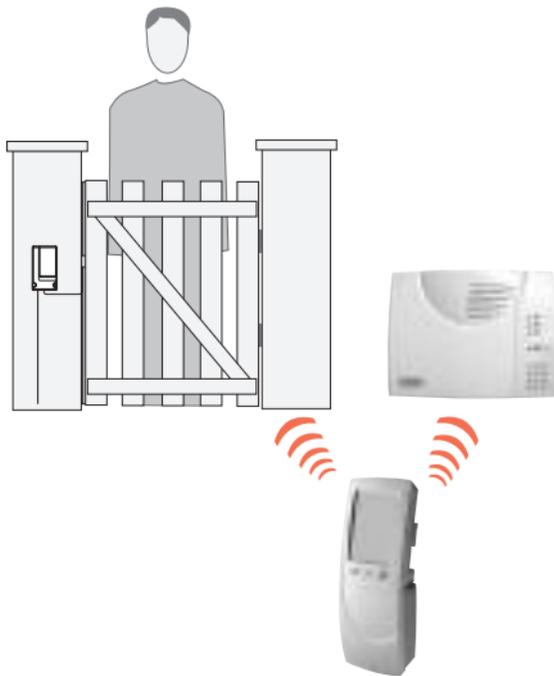
Advanced applications

• **Presence simulation:** for simulating presence by switching lights or another type of electrical appliance on and off. In this operating mode, the external receiver is controlled by a multi-functional mobile keypad (in Total Armed mode). Please refer to the multi-functional mobile keypad manual for further information.

Example: for controlling lighting via an external receiver in ON/OFF mode using a remote control and simulating presence by switching on the same lighting using the multi-functional mobile keypad.
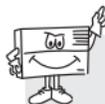
Application only possible with a multi-functional mobile keypad with activated presence simulation.

This application requires external receiver programming (see *"Programming"* chapter).

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• **Remote Control application:** control a 230 V electrical appliance when away from home using a fixed or mobile phone via the control panel with telephone dialler.

Telephone network

	Activating an electrical device	Deactivating an electrical device
Command to be sent (see Control Panel manual)	• Light ON	• Light OFF
	• Relay 1 ON	• Relay 1 OFF
	• Relay 2 ON	• Relay 2 OFF
	• Relay 3 ON	• Relay 3 OFF
	• Relay 4 ON	• Relay 4 OFF

This application requires external receiver programming (see *"Programming"* chapter).

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• **System status feedback:** for controlling an electrical appliance or lighting depending on alarm system status, with activation throughout Part Set or Total Arm status operating time and de-activation as soon as the system is disarmed.

Electrical appliance activation (control panel retransmission)	Electrical appliance de-activation (control panel retransmission)
System Part Setting or Total Arming	System Total Disarm

• **Activation on intrusion:** for controlling an electrical appliance or lighting when the alarm system is triggered, with activation on intrusion and de-activation after a programmed time limit.

Electrical appliance activation	Electrical appliance de-activation
Alarm system triggering	• At the end of the programmed time limit • When the "Disarm" key is pressed.

E.g. Flash

These applications require external receiver programming (see *"Programming"* chapter).

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Preparation

① Lift up the cover.

② Remove the fixing plate from the base by sliding it downwards.

③ Using a sharp object (pen nib, screw, rigid copper wire) punch through the membranes to make holes for the cables.

Membranes
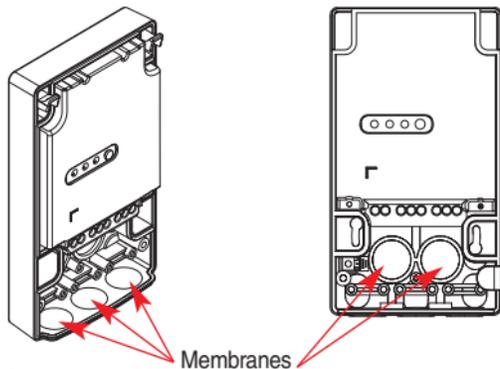
To guarantee tight fitting:
• make the hole as small as possible (this can be done using a needle),
• if several conductors need to be threaded through the hole these should be bunched together to form a cylindrical cross-section (10 mm maximum Ø).

④ Remove the fixing plate washer and position it at the top of the plate as shown.
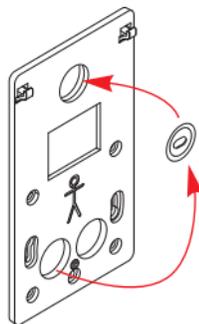
⑤ Draw a cable up to where the external receiver is to be located.

⑥ Remove about 40 mm of cable sheath then strip each conductor along 8 to 10 mm.

The maximum conductor diameter must be between 2.5 mm^2 (or 4 mm^2 for the earth connection).

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Installation

Choosing the best place

The external receiver must be placed with the cables pointing downwards
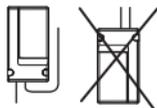
and according to the standard fixing method for outside installation.

The external receiver must not be placed:

• directly on a metal wall,

• less than 1 metre away from a water pipe,

• too close to the appliance to be controlled if it is likely to generate interference (neon lighting, etc.).

Standard fixing method

① Put the fixing plate in the place where it is to be installed and mark the position of the fixing points.

Example of fixing points
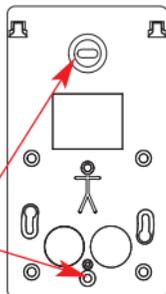
② Drill the holes with a 6 mm Ø drill bit.

③ Fix the plate using the appropriate wall plugs and screws.

④ Adjust verticality using the washer.

⑤ Hook the base of the external receiver on to the fixing plate and fasten it in position using the screw provided (bag).

Hooks
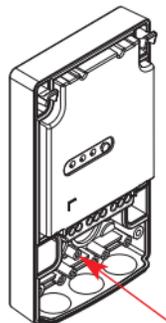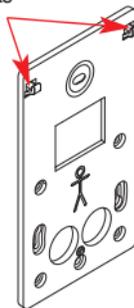
Screw

Risk of electric shock

Switch off the mains 230 V power supply before carrying out work on the electrical system.

Fixing the receiver on a wall box

(for inside installation only)

① Thread the cables through the holes in the plate and then through the holes in the base membranes.

② Fix the plate in position using the box screws:

- for a Ø 60 mm box

Fixing points
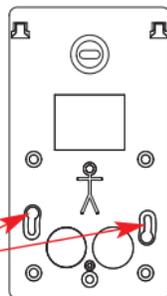
- for a Ø 85 mm box

Fixing points

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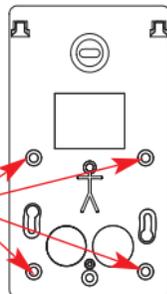
③ Hook the base of the external receiver on to the fixing plate and fix it in place using the screw provided in a bag together with the set of accessories.

Hooks

Screw
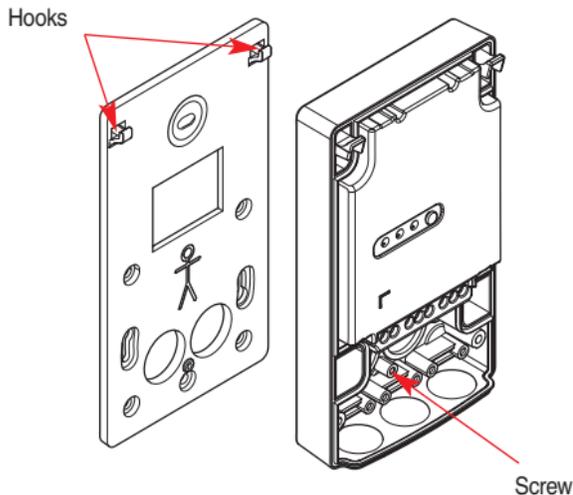
In order to save space, the base can be fixed in place without the fixing plate.
In this case, only 2 fixing points for a Ø 60 mm box are accessible.

Connection

Precautions:
• For controlling class 1 type devices (appliances requiring earthing), make sure the device to be controlled is earthed.
• the mains power supply must be switched off when performing connection operations and applicable electrical standards must be complied with.
• in compliance with electrical standards, the conductors in an electrical installation must be identified by a colour code:
- phase: any colour except light blue, green, yellow or green/yellow,
- neutral: light blue,
- earth: green/yellow
• The maximum conductor diameter for connection to the terminal block is 2.5 mm² (or 2 x 1.5 mm² for additional connections) and 2 x 4 mm² for the earthing connection.

⚠ **Risk of electric shock**
Switch off the mains 230 V power supply before carrying out work on the electrical system.

① Thread the cables through the membranes if this has not already been done.

② Connect the cables as shown in the following diagram:

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S771-22X external receiver (230 V-230V)
Example with connection to external lighting
(class 1 type appliance)

230 V halogen lamp

Phase
Neutral
Earth
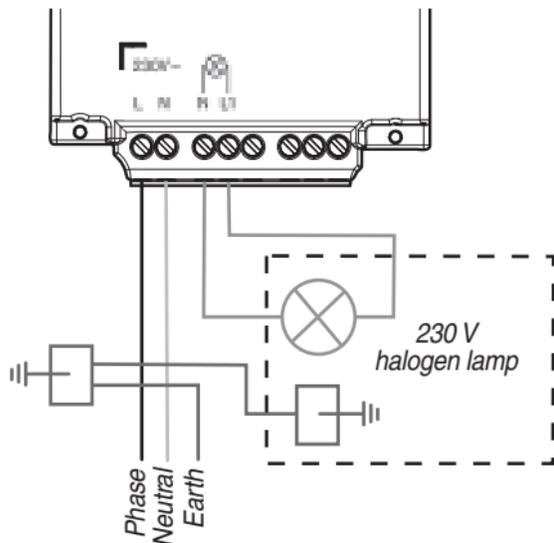
S781-22X external receiver (230 V- dry contact)
Example with connection to an electrical lock

Make
Common
Break

+
−

Electrical lock

230 VAC → 12 V AC or DC Transformer

Phase
Neutral
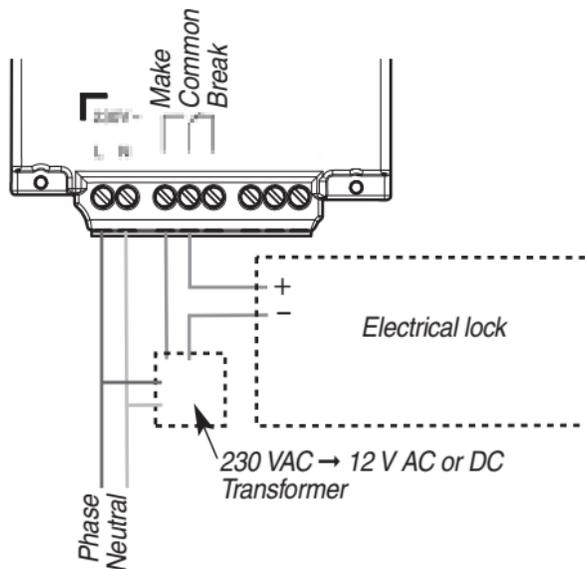
Total maximum output power (depending on type of load):

230 AC halogen lamp	500 W
12 V ELV halogen lamp	1500 W
Incandescent lamp	1500 W
Low consumption bulb	450 W
Fluorescent tube	400 W

Total maximum output power (depending on type of load):

Incandescent lamp	1000 W
12 V ELV halogen lamp	1500 W

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To be fitted on a disconnectable circuit via a 16 A protection device.

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S791-22X external receiver (12-24 V - dry contact)
Example with connection to an automatic gate control system
(Normally Open dry contact)
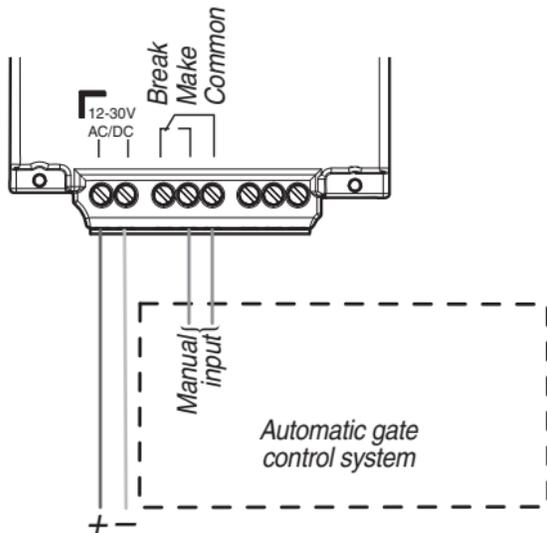
Maximum load:

24 V direct current	1 A
24 V alternating current	2 A
12 V direct current	2 A
12 V alternating current	2 A

③ When using the standard fixing method, hold the cables in place using cable clamps. Fix them in place using the 6 screws provided in the bag along with the set of accessories.

Set of accessories

Cable clamps
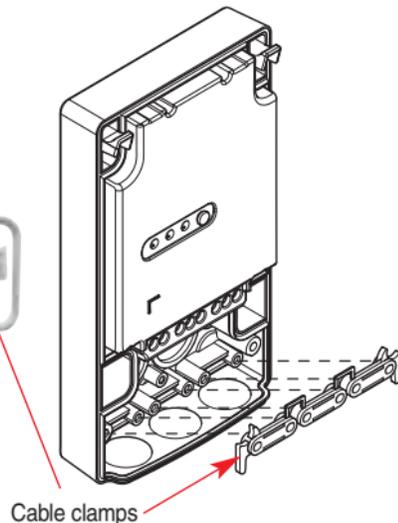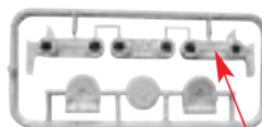
You can now move on to the recognition programming step.

Recognition programming

It is possible to programme the external receiver to be recognised by a maximum of 15 control devices (remote controls or keypads). A control device can control an unlimited number of receivers. Recognition programming must be performed for each external receiver in this case.

Recognition programming must be performed with the device to be controlled de-activated (receiver LED off).

Remote control or keypad (other than a multi-functional mobile keypad) recognition programming

First programme the chosen key for one of the following commands (see keypad or remote control installation guide):
• Light ON,
• Light OFF,
• Relays 1, 2, 3 or 4 ON,
• Relays 1, 2, 3 or 4 OFF
• Light in timer mode,
• Relays 1, 2, 3 or 4 in timer mode,
• Light in toggle switch mode,
• Relays 1, 2, 3 or 4 in toggle switch mode.

Perform programming as follows:
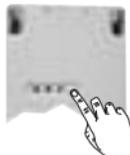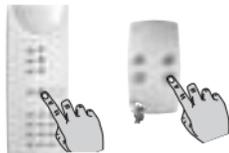
| Press the external receiver **programming** key (for less than 2 sec.). The programming LED will light up temporarily. | Press and hold the programmed key on the remote control or keypad until the external receiver programming LED lights up. | The external receiver confirms **programming by its programming LED lighting up for 2 sec.** |

If you make a programming error, the programming LED will flash quickly. You must carry out the programming sequence again from the start.

Recognition programming

Multi-functional mobile keypad recognition programming

• 1st possibility for use

| Press the external receiver **programming** key (for less than 2 sec.). The programming LED will light up temporarily. | Press and hold the **Light ON** or **Socket ON** or **Opening** and key until the external receiver programming LED lights up. | The external receiver confirms **programming by its programming LED lighting up for 2 sec.** |

If the **Light** or **Socket** keys are then re-programmed for Toggle Switch mode, the keypad must be programmed again (see keypad with touch screen manual).

• 2nd possibility for use

The Light page access key must first be programmed for direct access (see Keypad installation manual).

| Press the external receiver **programming** key (for less than 2 sec.). The programming LED will light up temporarily. | Press and hold the key on the Light page until the external receiver programming LED lights up. | The external receiver confirms **programming by its programming LED lighting up for 2 sec.** |

If you make a programming error, the programming LED will flash quickly. You must carry out the programming sequence again from the start.

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Recognition programming

Control panel recognition programming

The control panel must be in installation mode for programming (see control panel installation manual).

Control panel recognition programming is only required for Remote Control, System Status Feedback and Activation on Intrusion applications. Once recognition programming is complete, it is exclusive. To teach the external receiver to operate with a different control device, the initial recognition programming must be erased as described in the "Return to factory programming" chapter.

Perform programming as follows:
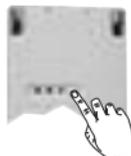
Press the external receiver **programming** key (for less than 2 sec.). The programming LED will light up temporarily.	Press and hold The key on the Light page until the external receiver programming LED lights up.	The external receiver confirms **programming by its programming LED lighting up for 2 sec.**

If you make a programming error, the programming LED will flash quickly. You must carry out the programming sequence again from the start.

Receiver programming

You can programme different operating modes as follows:
• Use the table opposite to choose: - the **parameter n°** corresponding to the **operating mode** to be programmed,
- the **parameter value** corresponding to the **feature** required.

Programming must be performed with the device to be controlled de-activated (receiver LED off).

* Factory programming   Advanced applications [   ]

Application/ parameter setting	Parameter n°	Parameter value	Characteristics
ON/OFF	always enabled		
Remote control	1	1	disabled *
		2	light control operation
		3	relay 1 control operation
		4	relay 2 control operation
		5	relay 3 control operation
		6	relay 4 control operation
Timer	2	1	90 sec
		2	3 min *
		3	5 min
		4	10 min
		5	15 min
		6	30 min
		7	60 min

Application/ parameter setting	Parameter n°	Parameter value	Characteristics
Pulse	3	1	1 sec
		2	2 sec *
		3	3 sec
		4	4 sec
		5	5 sec
		6	6 sec
		7	7 sec
		8	8 sec
		9	9 sec
Presence simulation	4	1	disabled *
		2	enabled
System status feedback	5	1	enabled
Activation on intrusion	6	1	90 sec
		2	3 min
		3	5 min
		4	10 min
		5	15 min
		6	30 min
Deletion	9	2	return to factory programming

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Receiver programming

• Use the programming key to programme the following sequence:

LED							
press key	*once and hold (10 s approx.)*	*........ times**	*once and hold (5 s approx.)*	*........ times**	*once and hold (10 s approx.)*	* Make a note of the chosen parameter number/value	

1) To start the sequence, press and hold the key until the LED goes out	**2) Press the key as many times** as the parameter number	**3) Press and hold** the key until the LED goes out	**4) Press the key as many times as** the parameter value	**5) To end** the sequence, press and hold the key until the LED goes out	LED permanently ON for 2 sec. = configuration correct

• **Example of configuring the external receiver in Timer mode:**
To change the external receiver configuration to Timer mode for a 15-minute duration, proceed as follows:
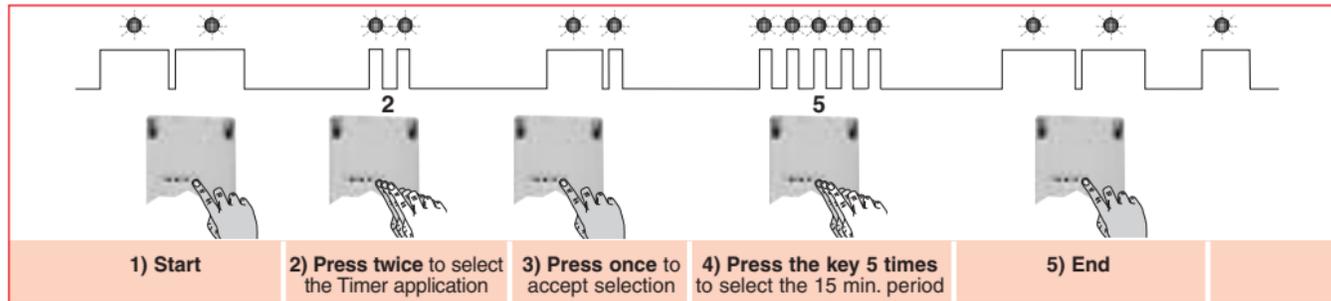
1) Start	**2) Press twice** to select the Timer application	**3) Press once** to accept selection	**4) Press the key 5 times** to select the 15 min. period	**5) End**	

If you make a programming error, the programming LED will flash quickly. You must carry out the programming sequence again from the start.

Real tests

Perform real tests to check that external receiver operation corresponds to the selected programming. If a key does not respond, perform separate recognition programming for this key.

Press and hold the key until the device responds.

Closing the box

① Close the box by hooking the cover back on to the base starting from the top.

② Tighten the 2 screws and conceal them using screw covers (provided with the set of accessories).

Screw covers

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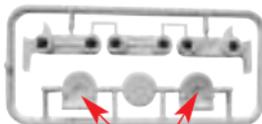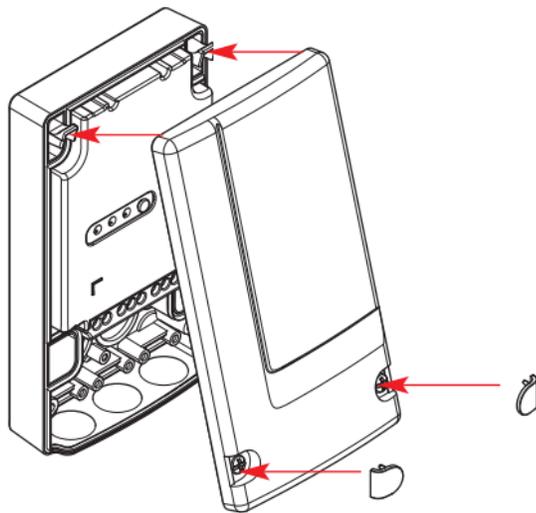
Logisty guarantee and extension conditions

Logisty guarantees all its manufactured products for **2 years** from the date of registration of the guarantee, or, if not registered by return of the registration card, for 2 years from the date of manufacture

IMPORTANT: Products marketed by Logisty may be granted an extended guarantee of **3 additional years** free of charge under the following conditions: in order to be able to benefit from the extended guarantee, within 10 days of the sale the purchaser must return, or otherwise be ineligible, to Logisty, his/her extended guarantee application legibly filled in and duly completed (name and address, retailer's stamp, date of sale, product serial number). Only the date of registration by Logisty shall be valid for assessing compliance with the above-mentioned period.

As regards any purchase of a supplementary product or replacement product within the context of the After-Sales Service, the extended guarantee application corresponding to the product(s) must be returned. Any invoice relating to your products must be retained as this may be required for application of the guarantee.

The guarantee gives entitlement to a standard exchange or to repair, at the discretion of Logisty.

The guarantee shall apply only if the product sold is used by the purchaser in the normal manner and under normal conditions, in accordance with the use instructions supplied by Logisty and with its intended purpose.

Any product that has been exchanged becomes the property of Logisty definitively and irrevocably.

Any product exchanged under guarantee benefits from the remaining guarantee term applying to the original product.

The guarantee relates solely to products marketed by Logisty, but does not apply to power sources (lithium cells and batteries) or other consumables.

Certain products or accessories - such as the mobile phone incorporated into GSM transmitters, video cameras, motors, etc. (non-exhaustive list) - may not benefit from an extended guarantee. These items are listed by Logisty.

The guarantee does not apply in the event of:
• failure to comply with the installation instructions provided by Logisty,
• abnormal use of the products or use of the products that does not comply with Logisty specifications,
• intervention or conversion of any type whatsoever, apart from any instruction given by Logisty,
• damage by dropping or impact,
• natural disaster, atmospheric phenomenon or vandalism, and also in all cases where an event occurring after the sale, independent of the wishes of Logisty, that is unavoidable and of which Logisty could not reasonably have been held to predict either the occurrence or the effects, would prevent the fulfilment of its essential obligations,
• use of power supplies other than those indicated by Logisty,
• incident arising during carriage,
• negligence or faulty maintenance on the part of the user.

The Logisty guarantee does not affect the legal provisions arising from:
• Articles 1641 et seq. of the Civil Code relating to legal guarantees for concealed defects,
• Article L211-2 of the Consumers' Code.

In the interests of improving its products, Logisty reserves the right to modify them without notice and without prejudice to Article L111-2 of the Consumers' Code.

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Technical data

Technical data	External receiver	S771-22X S781-22X S791-22X
Programming LED	1 red programming LED	
Programming key	1 programming pushbutton	
Total maximum output powers	S771-22X: • 230 V AC halogen lamp 500 W • 12 V ELV halogen lamp 1500 W • incandescent lamp 1500 W • low consumption bulb 450 W • fluorescent tube 400 W	S781-22X: • incandescent lamp 1000 W • 12 V ELV halogen lamp 1500 W
Maximum load	S791-22X: 24 V direct current 1 A 24 V alternating current 2 A	12 V direct current 2 A 12 V alternating current 2 A
Applications possible	• ON/OFF • timer • presence simulation (with multi-functional mobile keypad)	• remote control • pulse control • system status feedback • activation on intrusion
Power supply	S771-22X/S781-22X: 230 V AC - 50 Hz (16 A) with protection and disconnection possibility	S791-22X: 12-30 V AC or DC
Operating temperature	-20 °C min. / +70 °C max.	
Degree of protection	IP55 and IK04	
Insulation class	S771-22X/S781-22X: class ②	
Consumption	S771-22X/S781-22X: 17 VA S791-22X: 12 V direct current: 22 mA - 12 V alternating current: 24 mA - 24 V direct current: 11 mA	
Installation	inside or outside	
Dimensions (H x W x D)	150 x 85 x 35 mm	
Weight	224 g	

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DECLARATION OF CONFORMITY

Manufacturer: **Hager Security SAS**
Address: **F-38926 Crolles Cedex - France**

Product type: **External receiver**
Trade mark: **Logisty**

We declare under our sole responsibility that the products to which this declaration relates are thus compliant with the essential requirements of the following European Directives:
• **R&TTE Directive: 99/5/CE**
• **EMC Directive: 89/336/CEE**
• **Low Voltage Directive: 73/23/CE**
in compliance with the following harmonised European Standards:

Products code	S771-22X	S781-22X	S791-22X
EN 300 220-3	X	X	X
EN 301 489-1	X	X	X
EN 60 950	X	X	X
EN 60 669-2-1	X	X	X
EN 60 730-1	X	X	X
EN 55014, 55022 & 55024	X	X	X
EN 50090-2-2	X	X	X

These products can be used in all EU, EEA Countries and Switzerland.

Crolles 01/03/06

Signature:
Patrick Bernard
Research & Development Manager

Non-binding document, subject to modification without notice.

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