OPERATION

When a code from a SMINN key-tag or keypad is received, the base station controller checks if it is already registered in the memory. If it is registered and not blocked, the relay will activate.

ERASE MEMORY

The memory can only be erased using SMINN's programming console and knowing its PIN, avoiding accidental or malicious erasures.

BLOCKING A CODE IN THE MEMORY

A transmitter code cannot be simply erased from the memory, but it can be blocked so it won't work anymore. Blocking codes in the memory can only be done using a SMINN programming console and knowing its PIN.

MANUAL PROGRAMMING

The steps to program the receiver are detailed below.

1. Press and hold the K1 button (fig. 1).
2. Approach to the reader the key-tag you want to record. When the reader sends the code, the receiver memorizes it and it will beep twice as a validation signal.
3. Repeat this process for as many key codes you want to register in memory.
4. Release the programming button of the receiver.

Pressing any other channel will not make any effect.

BACKUP COPY

Although the device is protected against power line disturbances and electrical surges, it is important to keep a backup of the memory card in case of breakdown or damages caused by external circumstances such as electric storms, theft, improper handling, etc.
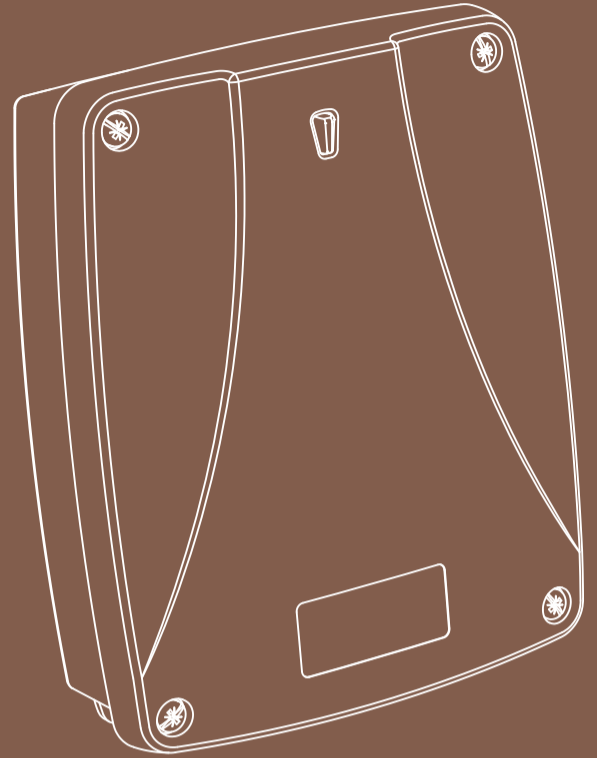
INSTALLATION

SMINN's base station controller is ready to be easily fixed on a wall using the supplied wall plugs and screws. Before connecting or operating the device the power supply switch or differential shall be disconnected. Specialized and/or skilled personnel will do the installation, using properly protected cable of enough gauge. Take into account that devices permanently connected to the mains need to have an accessible connection device (i.e. a magnetothermic switch). The wiring should be done following the instructions printed in the serigraphy of the circuit board. Make sure that the memory is inserted and properly configured. After programming and verifying the equipment, close the case with the supplied top.
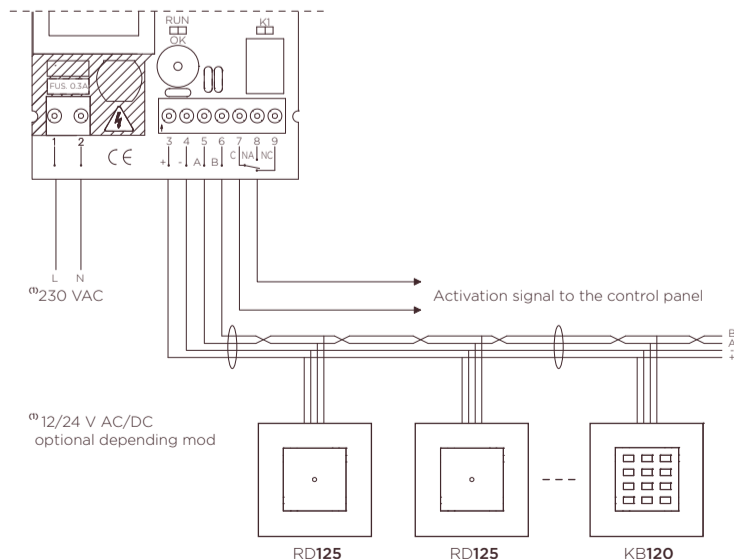

SMINN'S BASE STATION MOTOR CONTROLLERS INCLUDE A LIGHT SIGNAL TO KNOW IF THE EQUIPMENT IS POWERED.

CONNECTION

Wiring is easy using the terminal block for three circuits. Readers are connected using just 4 wires on the terminals 3 to 6. 2 of them are for power and the other two for the RS485 data bus.

Terminal	Function	Note
1	Power	Power input at 230 V or 12/24 AC / DC (depending on model)
2		
3	Positive (+)	Power output to readers/keypads
4	Negative (-)	
5	Line (A)	Apply to the BUS RS485 line
6	Line (B)	
7		
8	Activation relay	
9		

The RS485 BUS is used in Half / Duplex mode with two wires: A and B. All elements of the BUS must have the same connection. A wires connected to A, and B to B (they must not be exchanged).

230 VAC
Activation signal to the control panel
12/24 V AC/DC optional depending mod
RD**125**   RD**125**   KB**120**

SMINN
innovative in electronics

DESCRIPTION

SMINN's base station controllers are developed with state-of-the-art electronic devices. They provide a high degree of operating reliability and security. Equipped with a solid communication bus RS 485 that allows more mounting versatility and makes them more immune to interference. They are designed to provide the activation and movement order to SMINN motor controllers, alarms, access control and home automation systems, etc. They are suitable for industrial, commercial and/or residential environments.

These devices are built using high quality materials and components and the latest technology. They are devices that observe the current regulations for usage in residential, commercial and light industry environments.

CE

USAGE RESTRICTIONS

Operation is not guaranteed when installed in different equipment than the specified one.

The manufacturer reserves the right to change the specifications of these systems as well as this manual without prior warning. The equipment must be manipulated only by specialized and/or skilled personnel.

WARRANTY

This product has undergone a complete TEST during its manufacturing process that guarantees its reliability and proper operation. The manufacturer provides 24 months of warranty to the product from the date printed in the product and against any anomaly that it may present in its appearance or operation.Any damage caused by third parties, natural causes (flooding, fire, lightning, etc), arising from improper handling or installation, vandalism or any other cause non attributable to the manufacturer will void the warranty. The warranty only covers repairs or replacement of the damaged device. E Any expenses derived from assembling, travelling, transport, natural wear of parts, etc., and, in general, any expenses that are not part of the repairs or replacement of the damaged element of the system are excluded. The installer/provider will ask the manufacturer for a RMA number or authorization for transport of the system in warranty. Without this previous requisite, the manufacturer will not be able neither to process nor provide warranty service.

WARNING

This product must be used in installations which has been conceived for, considering any other as improper use. The packaging must not be dumped in the environment. Keep products, packaging, wrapping, documentation, etc., out of the reach of children. Follow the current local, national or European regulations. The information contained in this document may have some mistakes that will be corrected in future editions. The manufacturer reserves the right to modify the contents of this document or the product without any prior warning.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

In accordance with the European Directive 2002/96/EC about waste electrical and electronic equipment (WEEE), the presence of this symbol (see symbol at the bottom of this text) in the product or in the packaging, means that this article shall not be disposed in local non-classified waste streams. It is the user's responsibility to dispose this product taking it to a collection point designed for waste recycling of electrical and electronic devices. The separate collection of this product helps optimize the waste sorting and recycling of any recyclable material and also decreases the impact on health and the environment. For more information about the correct wasting of this product, please contact the local authority or the distributor where you acquired this product.

CE DECLARATION OF CONFORMITY

The company	ELSON SISTEMAS, S.L
	Pol. Torrelarragoiti, P6-A3-1ª
	48170 Zamudio - Bizkaia (SPAIN)
Declares	
The product:	BASE STATION CONTROLLER BXS-220
Manufactures by	ELSON ELECTRÓNICA, S.A.
Under the trademark:	**SMINN**
For use in:	Residential, Commercial or light industry
enviroments.	

This device meets the provisions contained in the article 3 of the R&TTE 1999/05/CE Regulation, as long as its usage is compliant to what was envisaged, having applied the following regulations:

Electromagnetic	EN 301489-1 v1.3.1 (2001-09)
compatibility:	EN 301489-1 v1.3.1 (2001-11)
Low Voltage	EN 60730-1: 2000

2010-03-30 Zamudio

Jose Miguel Blanco Perez
Chief Technical Officer

TECHNICAL CHARACTERISTICS

BOX S 220	230 V AC
BOX S 224	12/24 AC/DC

Power	Depending on model
Energy consumption	< 5 W
Communication	BUS RS485 Half / Duplex
Encryption	High security encryption
Code memorization	Plug-in memory of 250 codes
Memory expansion	500 / 1000 / 2000
Wiring	4-wire (recommended shielded cable CAT5)
Max. capacity of peripherals	2 readers RD 125 + 2 keypads KB 120
Maximum distance	> 200 m
Watertight	Ip54 - (IP66 with cable glands)
Operation temp.	-20ºC - +85º C
Dimensions	100 mm x 130 mm x 50 mm
Casing	ABS

Fig. 1
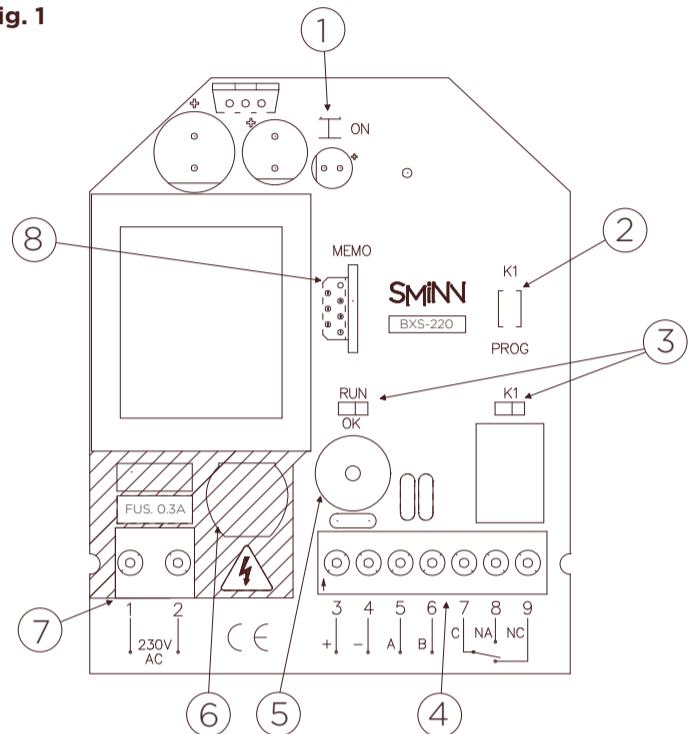
COMPONENTS

1. ON Led
2. PROG button
3. LED RUN (OK)/Relay
4. BUS terminal block and relay
5. Buzzer
6. Fuse
7. Power terminals
8. Plug-in memory socket