BOX L WG1

MULTIPLE WIEGAND DECODER

INSTRUCTION MANUAL

SMiNN

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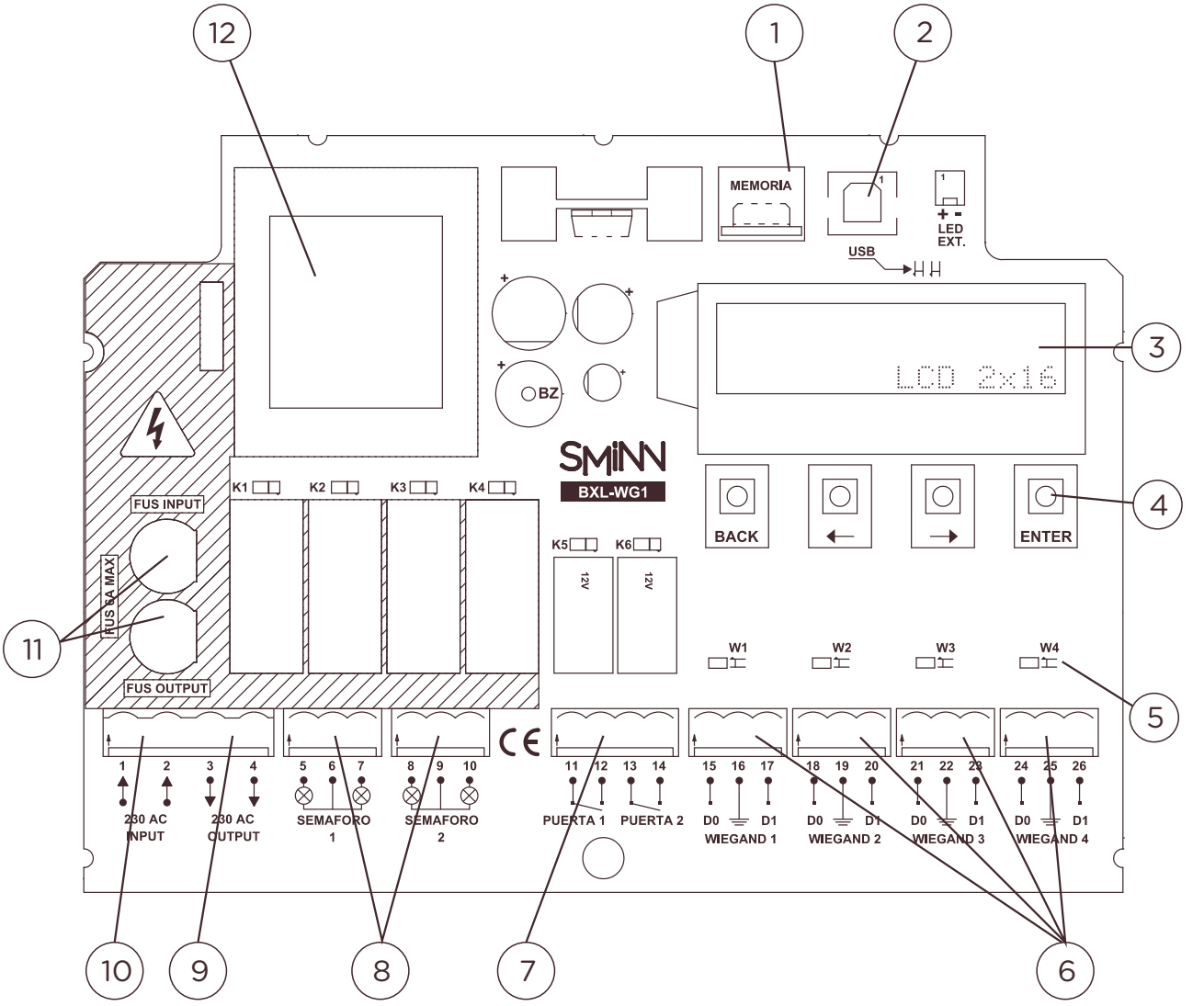
BOARD OVERVIEW



1. Removable memory socket
2. USB connector
3. LCD Display
4. Configuration keyboard
5. Wiegand data input indicator leds
6. Wiegand terminal blocks
7. Door activation terminal blocks
8. Semaphore terminal blocks
9. 230VAC output
10. 230VAC input
11. Protection fuses
12. Power transformer

DESCRIPTION

The BXL-WG1 controller is designed to decode up to 4 sensors (UHF readers that support Wiegand 34) simultaneously. It can also manage two red/green semaphores.

The sensors connected to the Wiegand 1 and Wiegand 2 inputs act on the K5 relay (Door 1) and the sensors connected to the Wiegand 3 and Wiegand 4 inputs act on the K6 relay (Door 2).

OPERATION

When a tag is in the operating range of a sensor its code is send to the controller via wiegand and it is presented on its LCD screen.

If the code is in the memory the corresponding relay will activate for 1 second and the screen will show the phrase “USER OK”.

If the code is not in the memory the screen will show the phrase “NO USER”.

If the code is blocked, it will show “USER BLQ”.

MEMORY ERASE

The memory can only be erased using the SMINN programming console and knowing the PIN of the memory. This way accidental or misbehaved erasing is avoided.

MANUAL PROGRAMMING

Follow these steps to program the controller:

1. Press and hold the <- or -> button
2. Put a tag in the working range of a sensor until its code appears on screen. The screen will also show “NO USER / GRABAR?”
3. Release the <- or -> button
4. If BACK is pressed the code programming is canceled. If ENTER is pressed the code is stored in the memory and two validation beeps are issued.
5. Repeat this process until all TAG codes are stored.

CODE BLOCKING

A TAG code cannot be erased from the memory but it can be blocked so it won't work. Code blocking may only be done using the SMINN programming console and knowing the PIN code of the memory.

BACKUP

Even though the controller is protected against power microlosses and overvoltage, it is important to keep a backup of the memory to avoid loss of data in case of equipment damage or external agents like electric storms, theft, manipulation, etc.

INSTALLATION

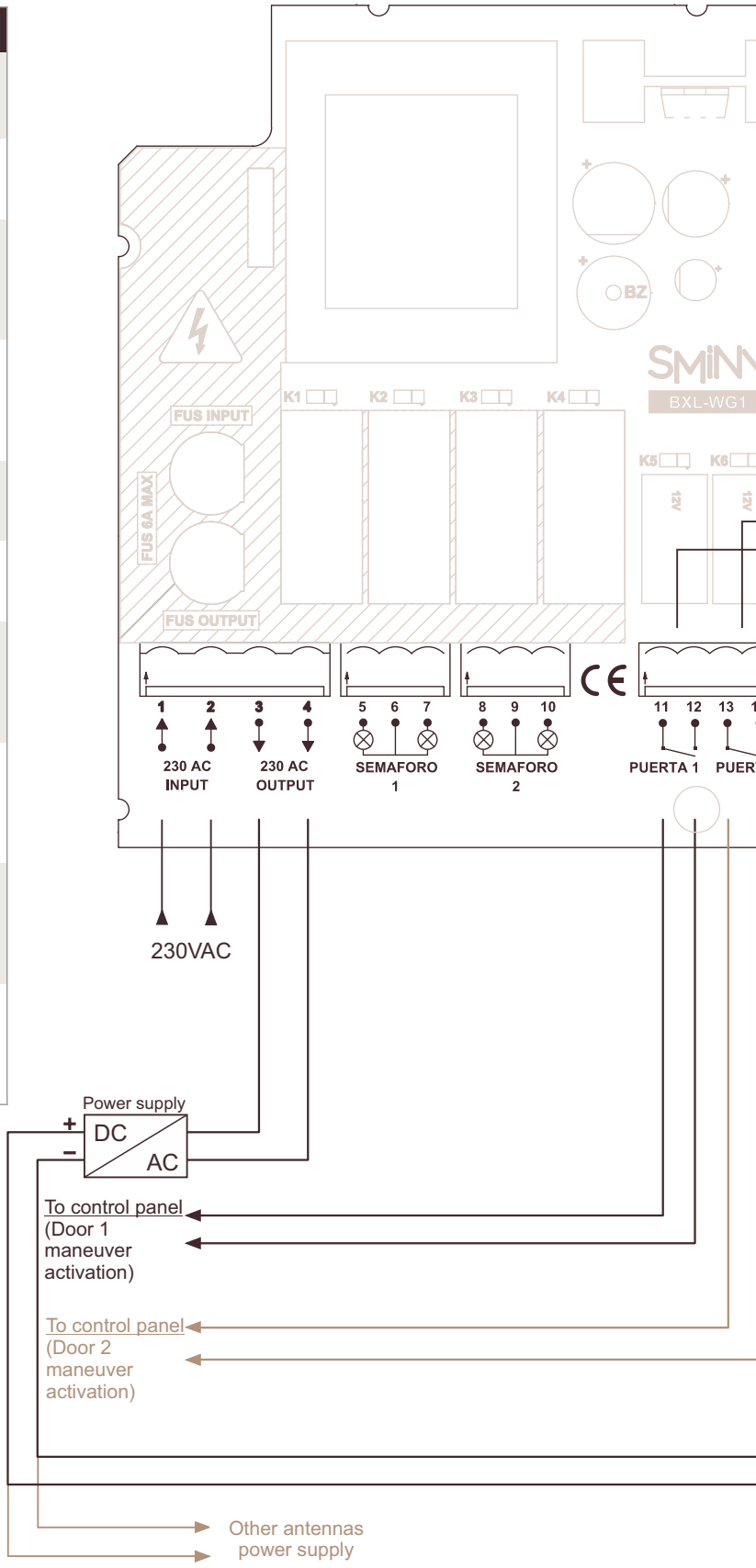
The BXL-WG1 controller is designed to be easily fixed to the wall using the supplied brackets and screws.

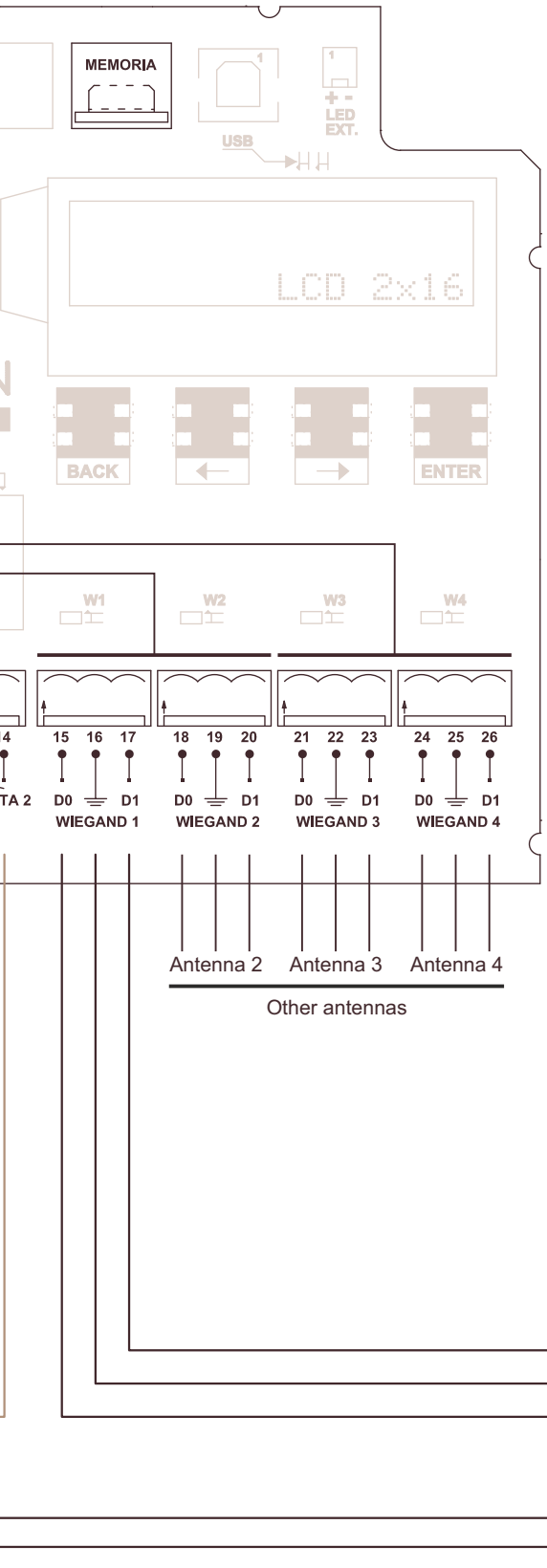
Before connecting or operating the device, the power supply switch or differential shall be disconnected. Specialized and/or skilled personnel will do the installation, using properly protected cable of enough gauge. Take into account that devices permanently connected to the mains need to have an accessible 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.

THE BOX L CONTROLLERS ARE EQUIPPED WITH A LED TO LET KNOW IF THE DEVICE IS POWERED

ELECTRICAL CONNECTIONS		
1 2	L N	230VAC input
3 4	230VAC output	
5 6 7	Semaphore 1 connection See Note	
8 9 10	Semaphore 2 connection See Note	
11 12	Door 1 Relay Connection	
13 14	Door 2 Relay Connection	
15	Data 0	Wiegand 1
16	Comm.	antenna
17	Data1	connection
18	Data 0	Wiegand 2
19	Comm.	antenna
20	Data 1	connection
21	Data 0	Wiegand 3
22	Comm.	antenna
23	Data 1	connection
24	Data 0	Wiegand 4
25	Comm.	antenna
26	Data 1	connection





NOTE

The sensors can be connected to any wiegand input.
The wiegand 1 and wiegand 2 inputs act on one relay and the wiegand 3 and wiegand 4 inputs act on another.

Semaphore management will be enabled on demand according to the specific needs of an installation. Consult availability.

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.
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.

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 ELECTRÓNICA, S. A. Pol. Torrelarragoiti, P6 – A3 48170 Zamudio – Vizcaya (SPAIN)
Declares:	
The product	Cuadro decodificador **BOX L WG1**
Manufactures	
Under the trademark	SMINN
For use in	Residential, Commercial or light industry enviroments.

This device meets the provisions as long as its usage is compilant to what was envisaged, having applied the following regulations:

Electromagnetic compatibility:	EN 61000-3-2/3 - EN 61000-6/1-2-3-4
Low Voltage:	EN 60335-1 - EN 60335-2-95/103

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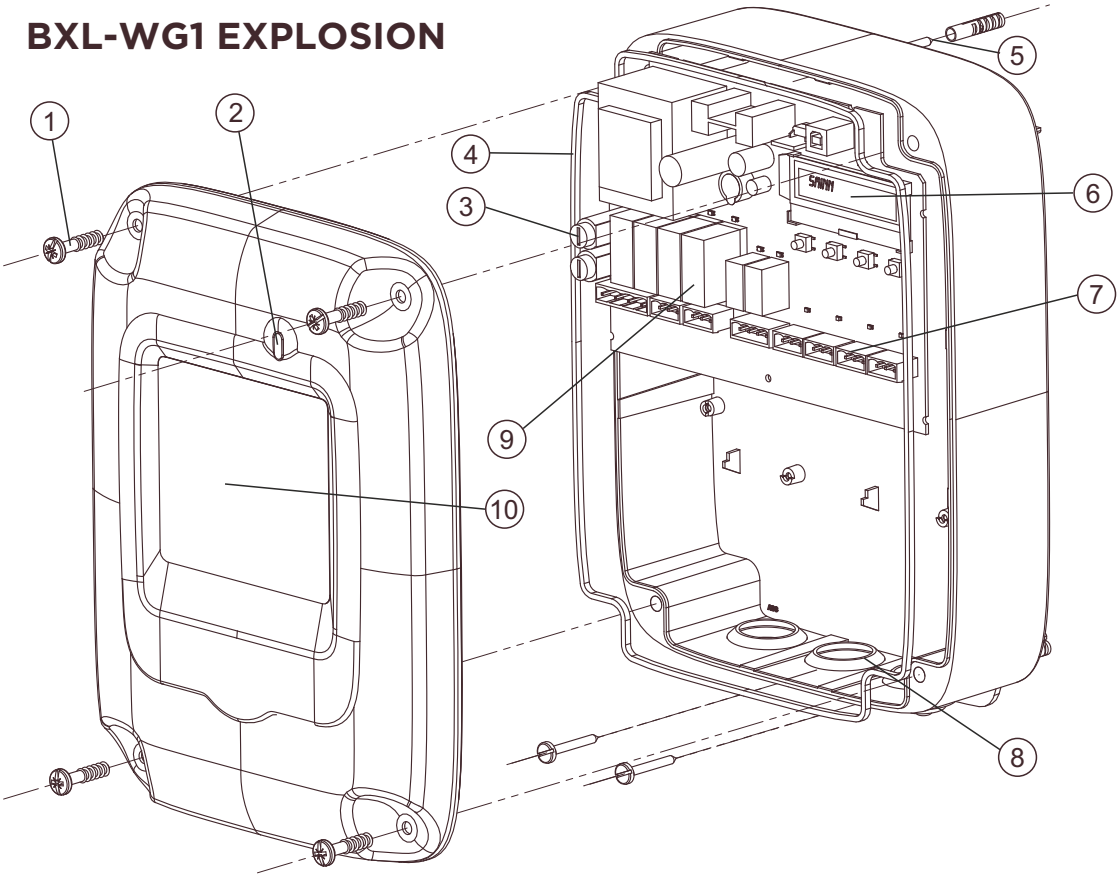
TECHNICAL CHARACTERISTICS

Power in	230VAC
Power out	230VAC
Main fuse	1/2A
Semaphore control	2x 230V-100W Red-Green (Optional)
Activation outputs	2x NO relays - 1A máx.
Sensors inputs	4x wiegand 34
Configuration	Digital keyboard (optional USB)
LCD display	2x16 characters Chip-on-glass technology - Backlight
Working temperature	-20ºC / 70ºC
Case	ABS
Dimensions	L280 x W196 x H90 mm
Weight	1400g
Ingress Protection	Ip54 (IP65 with cable glands)

BXL-WG1 EXPLOSION



1. Captive screws
2. Power indicator led
3. Protection fuses
4. Rubber gasket
5. Fixing using only three screws
6. LCD Display
7. Removable terminal blocks
8. Wall bushings for 16/24mm tube
9. Signal and power relays
10. Space for installer laber

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