

USAGE RESTRICTIONS

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

THE USAGE INSTRUCTIONS OF THIS DEVICE SHALL BE HANDED TO THE USER, WHO WILL HAVE THEM IN THEIR POSSESSION. IF THEY ARE MISLAID, THE USER CAN ASK FOR A COPY OR DOWNLOAD IT DIRECTLY FROM WWW.SMINN.COM

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.

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 ELECTRÓNICA, S.A.
Pol. Torrelarragoiti, P6-A3
48170 Zamudio - Bizkaia (SPAIN)

Declares

The product: BXM-640 6 channel receiver

Manufactured by ELSON ELECTRÓNICA, S.A.

Under the trademark: **SMINN**

For use in: Residential, Commercial or light industry
environments.

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

Telecommunications: EN 300 220-1 v1.3.1 (2000-09)
EN 300 220-1 v1.1.1 (2000-09)

Electromagnetic compatibility: EN 301489-1 v1.3.1 (2001-09)
EN 301489-3 v1.3.1 (2001-11)

Low Voltage EN 60730-1:2000

2014-12-10 Zamudio

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BOX M 640

6 CHANNEL RADIO RECEIVER

INSTRUCTION MANUAL



SMINN

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DESCRIPTION

SMINN's receivers are developed with state-of-the-art electronic devices. They provide a high degree of operating reliability and security.

They are designed to provide the activation and movement order to SMINN motor controllers, alarms, access control and home automation systems, etc.

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.



OPERATION

When a SMINN transmitter's code is received, the receiver checks the integrity of that code and if it is registered in the memory. Once verified, it keeps the corresponding relay activated as long as the transmitter's button is pressed.

The receiver can activate multiple relays simultaneously and avoids activation of complementary outputs like Up and Down or Left and Right.

In case of complementary commands both relays are deactivated to maximize safety.

ERASE MEMORY

Stored SMINN transmitters' codes can only be deleted completely by erasing the memory. To do so, these steps should be followed:

- Press and release 4 times with cadence of 1 second the PROG button.
- Press PROG. for the fifth time and hold it for 8 seconds until the RUN led powers on.
- Release the PROG button for 2 seconds.
- Press PROG button again (the led powers off) and hold for 8 seconds until the led blinks.
- Release the PROG button.
- Wait for the validation beeps.

TRANSMITTER PROGRAMMING

SMINN's BOX M 640 can store up to a total of 35 TMC640 transmitters.

Before registering transmitters, it's advisable to erase the memory first.

If we try to register more than 35 transmitters, the receiver will answer with a long beep indicating that the memory is full.

To register transmitters manually using the programming button, proceed as follows:

- Turn on the device and wait 5 sec.
- Press and hold the receiver's programming button (PROG.).
- Press and hold the button of the channel on the transmitter we want to register.
- Check that the led is blinking (SCAN mode).
- Wait for the valid registration beep.
- Release the transmitter button.
- Release the programming button of the receiver (PROG.).

Repetir estos pasos por cada emisor que se desee grabar de forma manual.

PROGRAMMING VIA RADIO

It's not possible to register transmitters via radio or via invite.

INSTALLATION AND WIRING

This SMINN device is designed to be easily fixed on a wall using the provided screws and wall plugs.

Before connecting the device to a power supply make sure the power supply is powered off. Installation shall be done by specialized personnel using adequate wiring taking into consideration that devices that are always powered on must have a power off override near them (like a Miniature Circuit Breaker).

Internal connections shall be done following the indications depicted in the silk screen printing of the board. Once the device is programmed and verified, close it using the supplied lid and screws.

SMINN RECEIVERS HAVE AN EXTERNAL LIGHT TO INDICATE WHETHER THE DEVICE IS POWERED ON OR OFF

Note: Reinforced concrete, metallic components and/or any other receiving device reduce dramatically the radiofrequency signal, so installation close to these elements should be avoided.

WIRING

The receiver has 4 terminal blocks for wiring of power and relays.

Relays are configured as dry, isolated contacts that can manage loads with different voltage levels (8 amp max. 250V AC/ 5 amp max. 30V DC).

Terminal	Function	Note
1	Power	Power supply 230V AC (24V AC/DC model available)
2	Power	
3	Positive (+)	Power output 15VDC - 200mA MAX
4	Negative (-)	
5-6	NO Contact	Relay - Up
7-8	NO Contact	Relay - Down
9-10	NO Contact	Relay - Left
11-12	NO Contact	Relay - Right
13-14	NO Contact	Relay - Forward
15-16	NO Contact	Relay - Backward

TECHNICAL SPECIFICATIONS

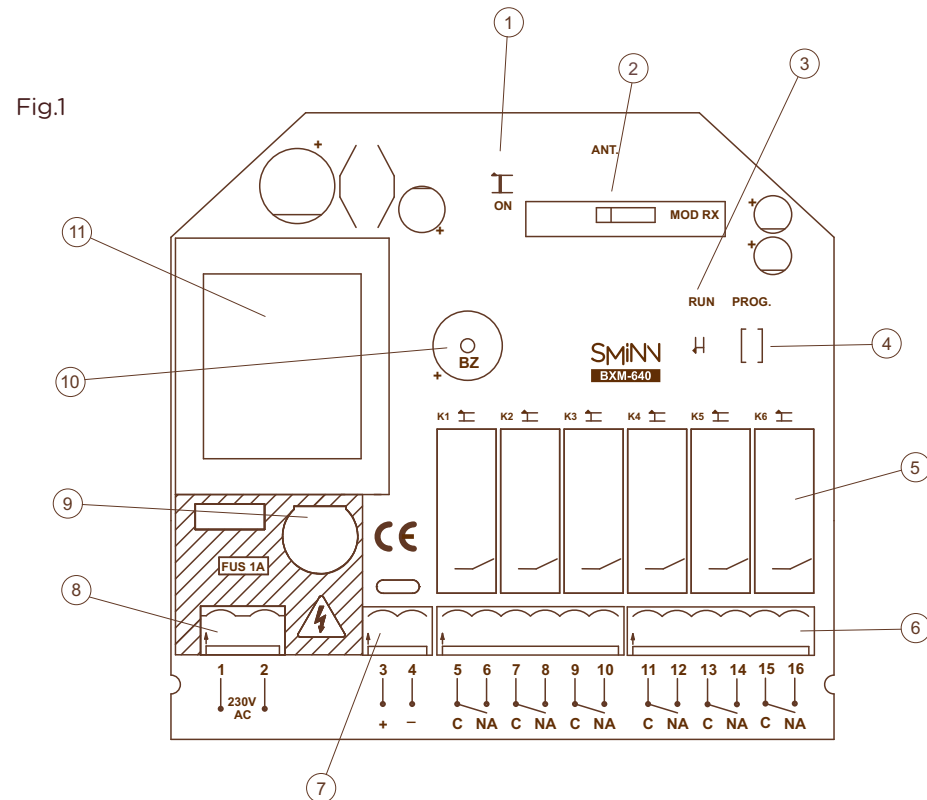
BOX M 640	433.92 MHz	230 VAC
BOX M 644	433.92 MHz	12/24 VAC/DC

RADIO

Sensibility	< -115 dBm
Radio type	Superheterodine
Codification	High security Crypto/Rolling
Antenna	Internal
Current drain at 12/24VDC min/max	20mA / 80mA

COMMON

Power supply	230VAC (125VAC / 24V AC/DC models available)
Capacity	35 transmitters
Power output	+15 VDC
Working temp	-20°C / +85° C
Size	182 mm x 145 mm x 65 mm (antenna not included)
Watertightness	IP54 - (IP65 with cable glands)



COMPONENTS

- | | |
|---------------------------|--------------------------------------|
| 1. ON Led | 7. 15V DC Power output |
| 2. Radio module | 8. Power supply |
| 3. RUN Led | 9. Protection fuse |
| 4. PROG button | 10. Buzzer |
| 5. Relays | 11. Transformer (depending on model) |
| 6. Relays terminal blocks | |