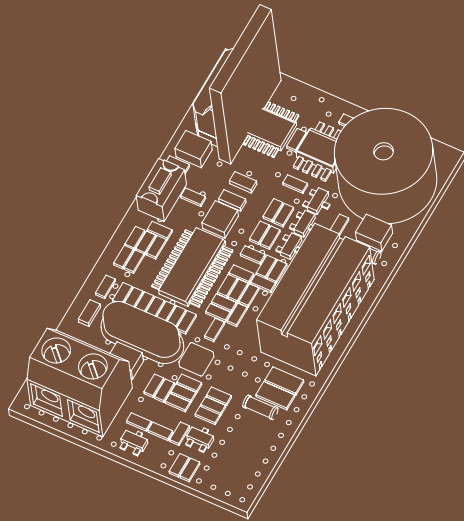# TRSH 868/434/315
RECEIVER CARD

INSTRUCTION MANUAL

SMiNN
innovative in electronics

DESCRIPTION

SMINN SAT M receivers are developed with state-of-the-art electronics and technology. They provide a high degree of operating reliability and security. They have a robust copy protection and anti-burglar system. They are designed to send the activation/deactivation order to SMINN motor controllers, alarm systems, access control systems, home automation systems, etc. They are suitable for industrial, commercial and/or residential environments.

Devices that are built using high quality materials and components and the latest technology. They are made taking into account the current regulations for usage in residential, commercial and light industry environments.

OPERATION

When receiving a SMINN transmitter code, the receiver checks if it is registered in the inserted memory. If it is registered and not blocked, it will activate the corresponding relay.

ERASING THE MEMORY

The internal memory can only be erased when an SMINN 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 an SMINN programming console and knowing its PIN.

MANUAL PROGRAMMING

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 an SMINN programming console and knowing its PIN.

1. Press and hold the programming button (fig. 1 – component 3).
2. Press the button of the transmitter channel we want to learn that will be assigned to K1 in the receiver. When receiving the code and channel sent by the transmitter, the receiver will store it in its memory and beep twice as a validation signal.
3. ONLY TO STORE/LEARN THE FIRST CODE AND IF THE MEMORY IS CONFIGURED AS DUAL-CHANNEL. **Press the channel button of the transmitter we want to assign to Output 2 of the receiver. When receiving the code and channel send by the transmitter, the receiver will store/learn it in the memory and will beep THREE times as a validation signal.**
4. Release the programming button of the receiver.

Repeat this process with as many transmitter codes as you want to manually register in the memory, using the same channel assigned to Output 1 with the first transmitter. Pressing any other channel will not have any effect.

REGISTRATION VIA RADIO

Depending on the level of security configured in the receiver's memory it is possible to register transmitter codes via radio.

Security level 1 (Basic).- Transmitter can be programmed in invitation mode knowing the PIN (the certified number of the installation) using a SMINN programming console. Invited transmitters are automatically registered by level 1 receivers.
Security level 2 (Intermediate).- Transmitters already in use can INVITE new transmitters that share the same PIN (the certified number of the installation).
Security level 3 (Advanced).- Emitters will be registered in the receiver manually. Radio-based registration is disabled.

CODE REPLACEMENT DUE TO LOSS

This function allows to replace a transmitter code stored in the receiver with a new one, be it due to loss or mislaying. The replacement of a transmitter code is only possible with a SMINN programming console. Knowing the PIN of the installation and the code number of the lost transmitter is required.

BACKUP

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 radio cards are prepared with a 7 channel connector ready to be plugged in a motor controller socket. Its use in motor controllers of other manufacturers is possible when they meet the card's connection and power supply requirements.
Screw the antenna to the corresponding terminal and place it correctly inside the casing, avoiding any sharp folding. Avoid placing it close to any metal component. It should be separated as much as possible from the electric circuit to get better reception.

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.

Before plugging or unplugging the receiver card from the socket the power supply must be disconnected. You must make sure that the memory is inserted and correctly configured.

USE LIMITATIONS

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

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 THE WEBSITE WWW.SMINN.COM

The manufacturer keeps the right to modify the content of this document or the product 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 an 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 istallations which has been conceived for, considering any other as improper use.
The packaging and wrapping 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.
La información que contiene este documento puede contener errores que se corregirán en siguientes ediciones.
The information contained in this document may have some mistakes that will be corrected in future editions. The manufacturer keeps the right to modify the content of this document or the product without prior warning.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE (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.

EC DECLARATION OF CONFORMITY

THe company   ELSON SISTEMAS, S. L.
                    Pol. Torrelarragoiti, P6 – A3 – 1ª
                    48170 Zamudio – Vizcaya (SPAIN)
Declares that

The product   TRSH 434/868 Receiver Card
Manufactured by   ELSON ELECTRÓNICA, S.A.
Under the trademark **SMINN**
Created for   Residencial, comercial and
                    industrial use.
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:
Telecomunications:
                    EN 300 220-1 v1.3.1 (2000-09)
                    EN 300 220-1 v1.1.1 (2000-09)
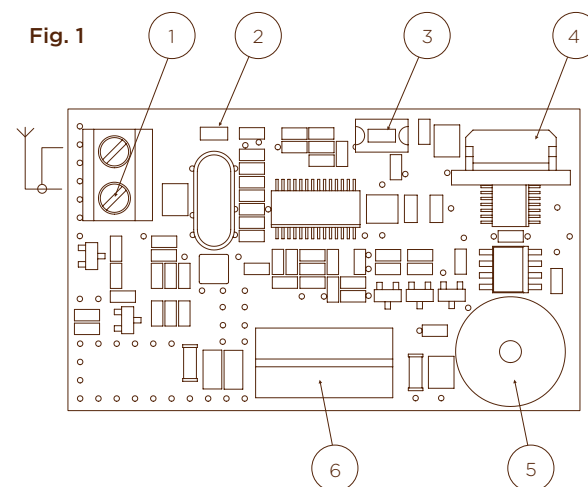Electromagnetic
Compatibility:
                    EN 301489-1 v1.3.1 (2001-09)
                    EN 301489-3 v1.3.1 (2001-11)
Low Tension:
                    EN 60730-1: 2000

Zamudio 2010.03.30

José Miguel Blanco Pérez
Chief Technical Officer

Fig. 1

COMPONENTS

1. Antenna connector
2. ON /RUN Led
3. Programming buttons
4. Memory connector
5. Buzzer
6. STOCKO connector to the motor controller

TECHNICAL CHARACTERISTICS

TRSH-868	868,30 MHz
TRSH-434	433,92 MHz
TRSH-315	315,00 MHz

Sensibility	< -115 dBm
Radio	Superheterodine
Encoding	High security Crypto/Rolling
Code memory	Plug-in memory 500/1000/2000 codes
Available channels	1 to 4
Antenna	External antenna terminal
Power max.	20 mA
Operating temperature	-20ºC - +85º C
Size	56 mm x 33 mm

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