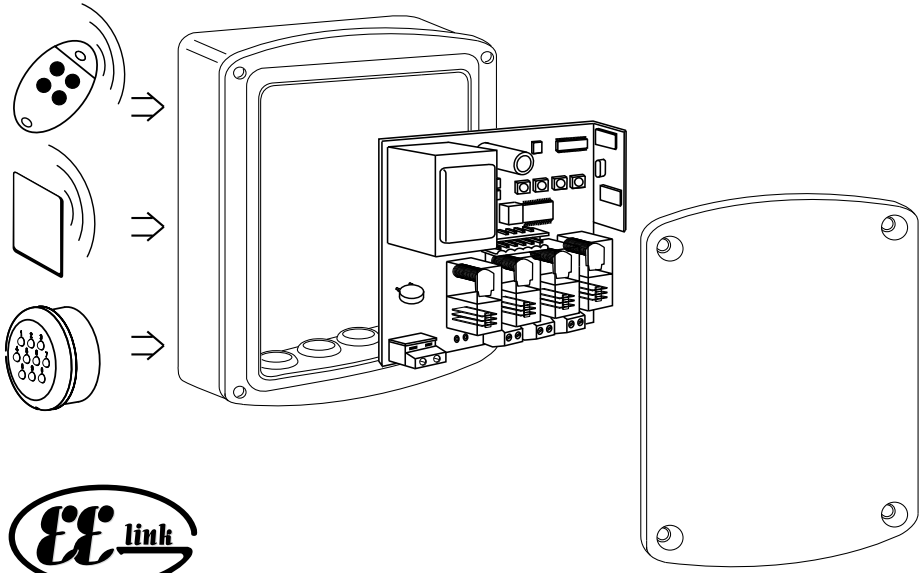
GB RECEPTION SYSTEM FOR ROLLING-CODE RADIO TRANSMITTERS, CODES AND CARDS

CLONIX 4 RTE



INSTALLATION AND USER'S MANUAL

AZIENDA CON SISTEMA DI GESTIONE
INTEGRATO CERTIFICATO DA DNV
= UNI EN ISO 9001:2000 =
UNI EN ISO 14001:2004

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Thank you for buying this product, our company is sure that you will be more than satisfied with the product's performance. The product is supplied with a "**Warnings**" leaflet and an "**Instruction booklet**". These should both be read carefully as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 2004/108/EEC and 2006/95/EEC (and subsequent amendments).

GENERAL SAFETY

WARNING! An incorrect installation or improper use of the product can cause damage to persons, animals or things.

- The "**Warnings**" leaflet and "**Instruction booklet**" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
- Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children's reach.
- Keep the instructions together with the technical brochure for future reference.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.
- Do not install the product in explosive atmosphere.
- The construction components of this product must comply with the following European Directives:It complies with the 2004/108/EEC, 1999/5/CEE, European Directive and subsequent amendments. As for all non-EEC countries, the above-mentioned standards as well as the current national standards should be respected in order to achieve a good safety level.
- The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.
- The installation must comply with the provisions set out by the following European Directives:It complies with the 2004/108/EEC, 1999/5/CEE, European Directive and subsequent amendments.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.
- Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3,5 mm.
- Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.
- Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.
- Fit all the safety devices (photocells, electric edges etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing.
- Position at least one luminous signal indication device (blinker) where it can be easily seen, and fix a Warning sign to the structure.
- The Company declines all responsibility with respect to the automation safety and correct operation when other manufacturers' components are used.
- Only use original parts for any maintenance or repair operation.
- Do not modify the automation components, unless explicitly authorised by the company.
- Instruct the product user about the control systems provided and the manual opening operation in case of emergency.
- Do not allow persons or children to remain in the automation operation area.
- Keep radio control or other control devices out of children's reach, in order to avoid unintentional automation activation.
- The user must avoid any attempt to carry out work or repair on the automation system, and always request the assistance of qualified personnel.
- Anything which is not expressly provided for in the present instructions, is not allowed.
- Installation must be carried out using the safety devices and controls prescribed by the EN 12978 Standard.

1) GENERAL OUTLINE

The CLONIX 4 RTE receiver is characterised by:

- **outputs with relay contacts insulated (1 output with changeover contact, 3 outputs with N.O. contacts).**
- **programming of outputs as monostable, bistable, timed.**
- **absolute safety thanks to coding with variable code (rolling code).**
- **radio programming for transmitters.**
- **presetting for the reception of transponder cards and codes from the numerical keypad (wiegand 26 standard).**
- **transmitter cloning.**

Cloning a transmitter means creating a transmitter which can be included automatically within the list of the transmitters memorised in the receiver, either as an addition or as a replacement of a particular transmitter.

Therefore it will be possible to remotely program a large number of additional transmitters, or for example, replacement transmitters for those which have been lost, without making changes directly to the receiver. Cloning by replacement is used to create a new transmitter which takes the place of the one previously memorised in the receiver; in this way the lost transmitter is removed from the memory and will no longer be usable

Using clones when there is more than one receiver (as in the case of communal buildings), and especially when a distinction is to be made between clones to be added to or replaced in individual or collective receivers, could turn out to be rather difficult. The CLONIX 4 RTE receiver cloning system for communal buildings makes it particularly easy to solve the problem of clone storage for up to **250 individual receivers.**

2) TECHNICAL SPECIFICATIONS

Frequency.....:433.92MHz
Working temperature.....:-20 / +55°C
Coded by means of.....:Rolling-code algorithm
No. combinations.....:4 milliard
Power supply.....:230V ±10% 50Hz
Antenna impedance.....:50Ohm (RG58)
Relay contact .....:4 x 16A
Max no. radio transmitters to be memorised.:.....128
Max absorption on 12V.....:100mA

2.1) CONNECTIONS See Fig.6

3) ANTENNA INSTALLATION

Use an antenna tuned to 433MHz.

For Antenna-Receiver connection, use RG8 coaxial cable.

The presence of metallic masses next to the antenna can interfere with radio reception. In case of insufficient transmitter range, move the antenna to a more suitable position.

4) PROGRAMMING

The TRANSMITTERS can be memorised in manual mode or by means of the universal palmtop Programmer, which allows installations to be carried out in "common receivers" mode and managed by means of the EEdbase software for complete installation database.

4.1) Manual memorisation of transmitters, see fig.1-2

In the case of standard installations, which do not require advanced functions, the transmitters can be memorised manually, making reference to Fig.2.

1) If you wish the transmitter to activate output 1, press the SW1 button, whereas if you wish the transmitter to activate output 2, press the SW2 button.
2) If you wish to use functions other than those for monostable activation, make reference to Fig.1 and 2.
3) When the DL1 led blinks, press hidden key P1 on the transmitter, and the DL1 led will stay on permanently.
   Note: Hidden key P1 looks different depending on the transmitter model.
4) Press the transmitter key to be memorised, and the DL1 led will start blinking again.
5) To memorise another transmitter, repeat steps 3) and 4).
6) To come out of the memorisation mode, wait until the led is completely switched off.

IMPORTANT NOTE: ATTACH THE ADHESIVE KEY LABEL TO THE FIRST MEMORISED TRANSMITTER (MASTER).

In the case of manual programming, the first transmitter assigns the key code to the receiver; this code is necessary in order to carry out subsequent cloning of the radio transmitters.

4.2) Transmitter storage via radio in self-learning mode

This mode is used to memorise a transmitter without having to access the receiver.

The first transmitter is to be memorised in manual mode.

a) Press hidden key P1 on the transmitter already memorised.
b) Press key T on the transmitter already memorised, which is also to be attributed to the new transmitter.
c) Within 10 sec., press key P1 on the new transmitter to be memorised.
d) Press key T to be attributed to the new transmitter.
e) To memorise another transmitter, repeat the procedure from step (c) within a maximum time of 10 seconds, otherwise the receiver exits the programming mode.
f) To copy another key, repeat from step (a), having waited for the receiver to exit the programming mode (or after disconnecting the receiver from the power supply).

5) RADIO-TRANSMITTER CLONING
Rolling-code cloning.

Make reference to the instructions for the universal palmtop programmer and to the CLONIX programming guide.

6) ADVANCED PROGRAMMING: COLLECTIVE RECEIVERS

Make reference to the instructions for the universal palmtop programmer and to the CLONIX programming guide.

7) MANUAL PROGRAMMING OF CARDS AND CODES FROM THE KEYPAD (WIEGAND 26 standard), see Fig. 3-4

8) ACTIVATION TIME SETTING FOR TIMED OUTPUT: See Fig.5.

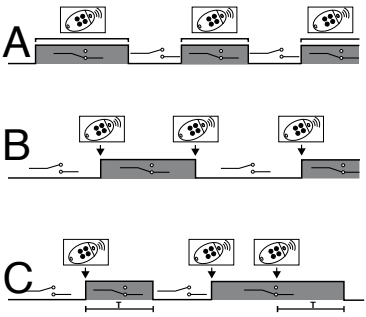
9) MAINTENANCE
The maintenance of the system should only be carried out by qualified personnel regularly.

10) DISPOSAL
ATTENTION: disposal should only be carried out by qualified personnel.
Materials must be disposed of in conformity with the current regulations.
In case of disposal, the system components do not entail any particular risks or danger. In case of recovered materials, these should be sorted out by type (electrical components, copper, aluminium, plastic etc.).
For battery disposal, refer to the current regulations.

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving its essential features unchanged, at any time and without undertaking to update the present publication.

FIG.1

ENTRY OF RADIO TRANSMITTERS



The associated output relay remains picked up as long as it is receiving the command wirelessly from the remote control.

The relay of the coupled output changes status each time the transmitter key is pressed.

Each time the transmitter key is pressed, the output relay remains picked up for the time set by means of the dip switch (Fig.5). When the key is pressed during the count cycle, the actual count is restarted.

FIG.2

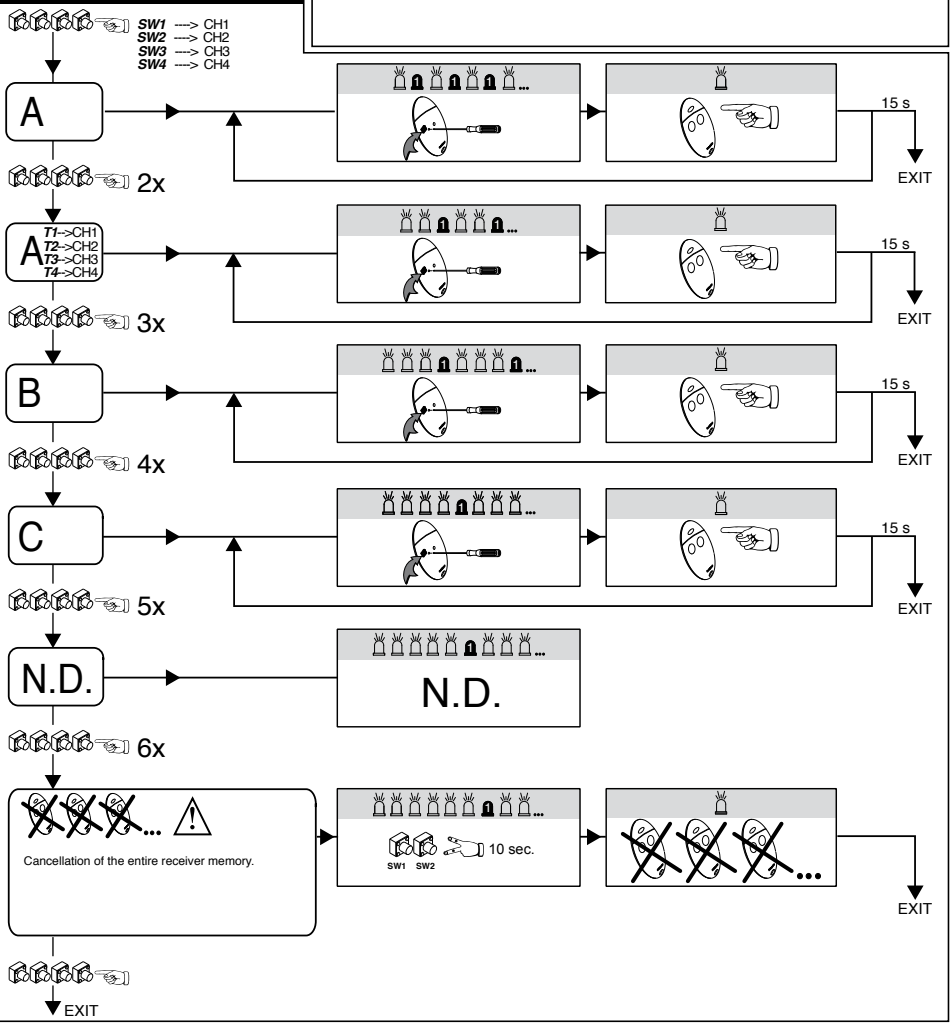
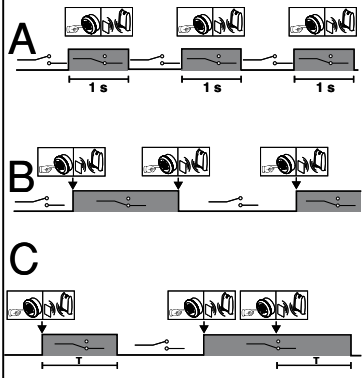


FIG.3 INSERIMENTO CODICI O TESSERE / ENTRY OF CODES OR CARDS / INSERTION CODES OU BADGES / EINFÜGEN VON CODES ODER ERFASSUNGSKARTEN / INSERCION DE CODIGOS O TARJETAS / INTRODUÇÃO DE CÓDIGOS OU CARTÕES



The relay of the coupled output remains picked up for about 1 second.

A

The relay of the coupled output changes status each time the card or the memorised code is recognised.

B

Each time the card or the memorised code is recognised, the output relay remains picked up for the time set by means of the dip switch. When the card or the memorised code is recognised during the count cycle, the actual count is restarted.

C

FIG.4

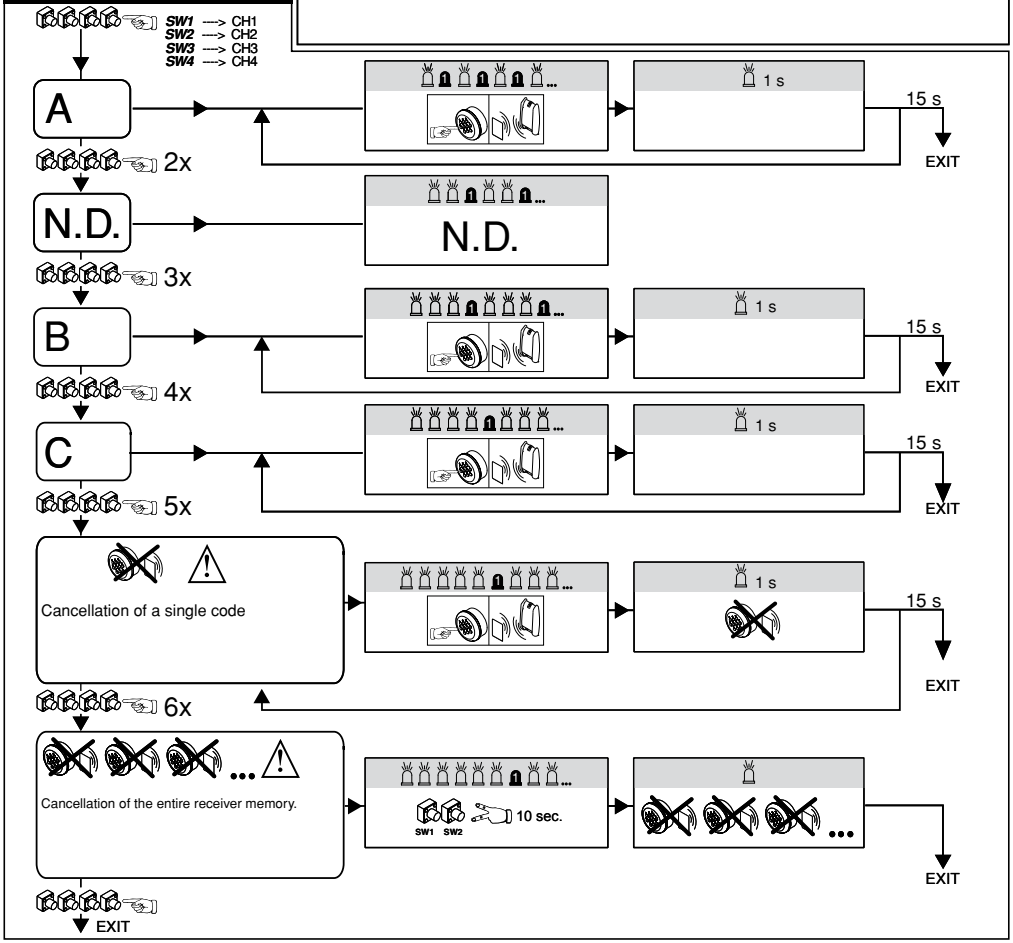
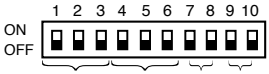


FIG.5

1	2	3	CH1
OFF	OFF	OFF	30s
OFF	OFF	ON	60s
OFF	ON	OFF	180s
OFF	ON	ON	6min
ON	OFF	OFF	15min
ON	OFF	ON	30min
ON	ON	OFF	1h
ON	ON	ON	12h

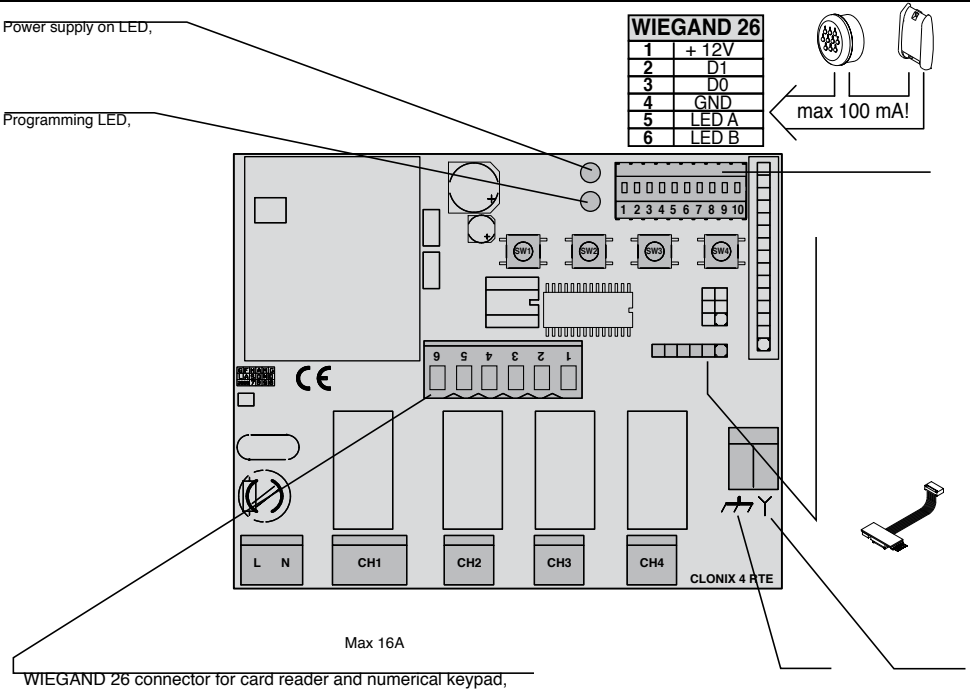
4	5	6	CH2
OFF	OFF	OFF	30s
OFF	OFF	ON	60s
OFF	ON	OFF	180s
OFF	ON	ON	6min
ON	OFF	OFF	15min
ON	OFF	ON	30min
ON	ON	OFF	1h
ON	ON	ON	2h



9	10	CH4
OFF	OFF	30s
OFF	ON	180s
ON	OFF	1h
ON	ON	12h

7	8	CH3
OFF	OFF	30s
OFF	ON	180s
ON	OFF	6min
ON	ON	30min

FIG.6



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