BFt CLONIX1-2 Rolling-Code with Cloning Radio Control System Instruction Manual

Contents

BFt CLONIX1-2 Rolling-Code with Cloning Radio Control System

GENERAL OUTLINE

Thank you for buying this product, our company is sure that you will be more than satisfied with the performance of the product. Read the “Instruction Manual” supplied with this product carefully, as it provides important information about safety, installation, operation and maintenance. This product conforms to recognized technical standards and safety regulations. It complies with the 2014/30/UE, 2014/53/UE, European Directive, and subsequent amendments. This product complies with recognized technical standards and safety regulations. Self-learning rolling-code radio receiver system. This is used to configure impulse or bistable or timed outputs. The CLIX / MITTO system is compatible with the link protocol, for fast installation and maintenance, and with the Er-Ready protocol for copiable Replay transmitters.

MAINTENANCE

The maintenance of the system should only be carried out by qualified personnel regularly. MITTO transmitters are powered by a single 12V lithium battery (23A type). Any reduction in the transmitter capacity may be due to the batteries getting flat. When the led of the transmitter flashes, it means that the batteries are flat and must be replaced.

DISPOSAL

ATTENTION: disposal should only be carried out by qualified personnel. Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling center.

INSTALLER WARNINGS

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference.

GENERAL SAFETY

This product has been designed and built solely for the purpose indicated herein. Uses other than those indicated herein might cause damage to the product and create a hazard.

- The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2014/30/UE, 2014/35/UE, 2014/53/UE and later amendments. For all countries outside the UE, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety.
- The Manufacturer of this product (hereinafter referred to as the “Firm”) disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.
- Before commencing installation, check the product for damage.
- Make sure the stated temperature range is compatible with the site in which the automated system is due to be installed.
- Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard.
- Disconnect the electricity supply before performing any work on the system. Also disconnect buffer batteries, if any are connected.
- Before connecting the power supply, make sure the product’s ratings match the mains ratings and that a suitable residual current circuit breaker and overcurrent protection device have been installed upline from the electrical system. Ensure that there is an automation, switch or 16A all-pole thermal magnetic circuit breaker on the grid to enable complete disconnection in the conditions of the overvoltage III category.
- Make sure that upline from the mains power supply there is a residual current circuit breaker that trips at no more than 0.03A as well as any other equipment required by code.
- Make sure the earth system has been installed correctly: earth all the metal parts belonging to the entry system (doors, gates, etc.) and all parts of the system featuring an earth terminal.
- Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.
- Do not make any modifications to the automated system’s components unless explicitly authorized by the Firm.
- Instruct the system’s user on what residual risks may be encountered, on the control systems that have been applied and on how to open the system manually in an emergency. give the user guide to the end user.
- Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WIRING

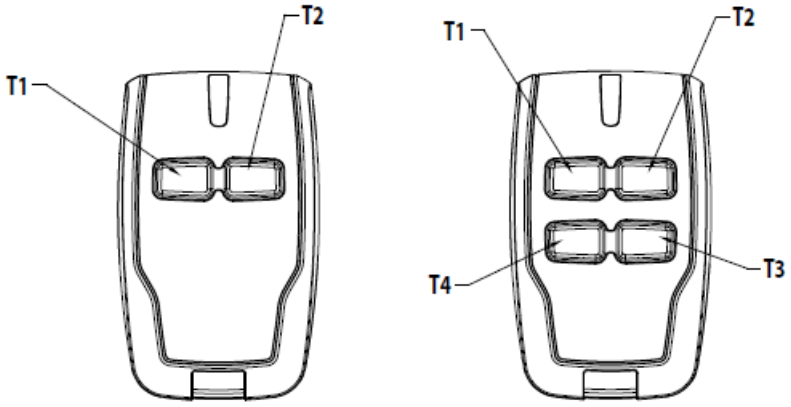
WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5×1.5mm2 or 4×1.5mm2 when dealing with three-phase power supplies or 3×1.5mm2 for single-phase supplies (by way of example, type H05RN-F cable can be used with a cross-sectional area of 4×1.5mm2). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm2.

- Only use pushbuttons with a capacity of 10A-250V or more.
- Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.
- During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable’s fastening device comes loose.
- WARNING! safety extra low voltage wires must be kept physically separate from low voltage wires.

- Only qualified personnel (professional installers) should be allowed to access live parts.

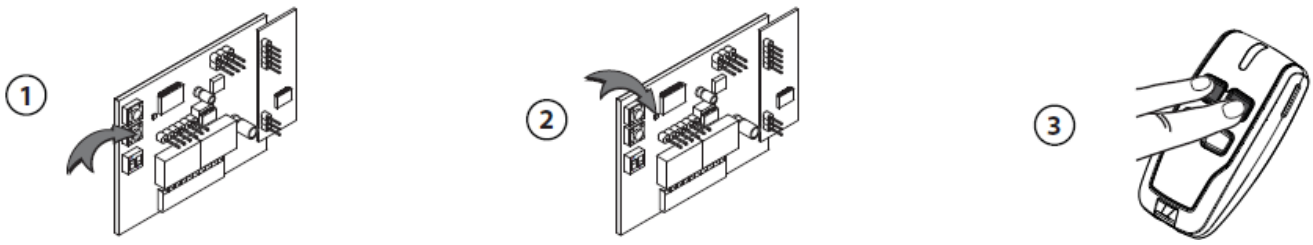
SCRAPPING
Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling center.

DECLARATIONS OF CONFORMITY CAN BE FOUND AT **http://www.bft-automation.com/CE**
INSTRUCTIONS FOR USE AND ASSEMBLY CAN BE FOUND IN THE DOWNLOAD SECTION. Anything that is not explicitly provided for in the installation manual is not allowed. Proper operation can only be guaranteed if the information given herein is complied with. The Firm shall not be answerable for the damage caused by failure to comply with the instructions featured herein. While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

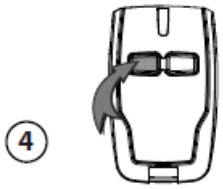


- PROGRAMMAZIONE BASE CLONIX 2
- BASIC PROGRAMMING OF CLONIX 2 Impulsive output 1 and 2 (to activate, for example, a control unit and its pedestrian opening)
- PROGRAMMATION DE BASE CLONIX 2 Sortie impulsive 1 et 2 (pour commander par exemple le star
- BASIS-PROGRAMMIERUNG CLONIX 2 Impuls-Ausgang 1 und 2 (um zum Beispiel den Start einer
- PROGRAMACIÓN BASE CLONIX 2
- PROGRAMAÇÃO BASE CLONIX 2
- CLONIX 2'NİN TEMEL PROGRAMLAMASI

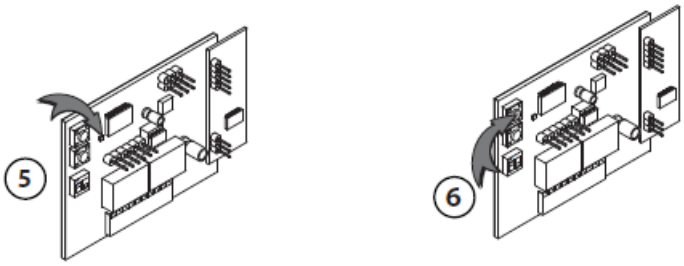
1. Press the key SW1 once.



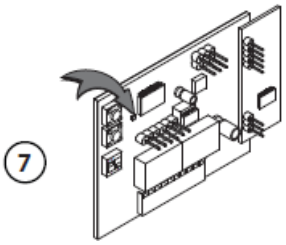
2. The led begins to flash
3. Press the hidden key until the led of the receiver stays on.
4. Press the key T1, LED will flash quickly to indicate that it has been memorized successfully. Flashing as normal will then be resumed.



5. Wait for the led to switch off.

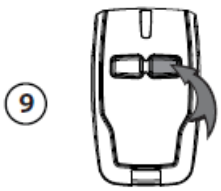


6. Press the SW2 once
7. The led begins to flash.

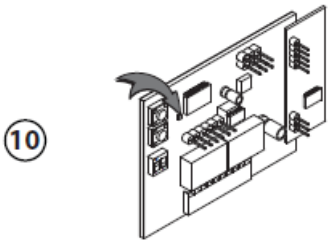


8. Press the hidden key until the led of the receiver stays on.

9. Press the key T2, LED will flash quickly to indicate that it has been memorized successfully. Flashing as normal will then be resumed.



10. Wait for the led to switch off.



Overview

GENERAL OUTLINE

The Clonix receiver combines the characteristics of utmost safety in copying variable code (rolling code) coding with the convenience of carrying out transmitter “cloning” operations thanks to an exclusive system. Cloning a transmitter means creating a transmitter that can be included automatically within the list of transmitters memorized 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 that takes the place of the one previously memorized in the receiver; in this way the lost transmitter is removed from the memory and will no longer be usable

When coding safety is not a decisive factor, the Clonix receiver allows you to carry out fixed code additional cloning, which although abandoning the variable code, provides a high number of coding combinations. 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 receiver cloning system for communal buildings makes it particularly easy to solve the problem of clone storage for up to 250 individual receivers.

RECEIVER TECHNICAL SPECIFICATIONS

- Power supply range 12 to 28V= range 16 to 28V~
- Antenna impedance 50 Ohms (RG58)
- Relay contact 1A – 33V~, 1A – 24V=

Max. n° of radio transmitters that can be memorized:

Receiver version	N° of radio transmitters
CLONIX single-channel 128	128
CLONIX twin-channel 128	128
CLONIX twin-channel 2048	2048
CLONIX EXTERNAL twin-channel 128	128
CLONIX EXTERNAL twin-channel 2048	2048

TECHNICAL SPECIFICATIONS OF MITTO RECEIVER

- Frequency: 433.92MHz
- Operating temperature range: -20 / +55°C
- Code by means of Rolling-code algorithm
- N° of combinations: 4 billion
- Dimensions: see fig.1
- Power supply : 12V Alkaline battery 23A
- Range: 50/100 meters
- Transmitter versions: Twin-channel, 4-channel

ANTENNA INSTALLATION

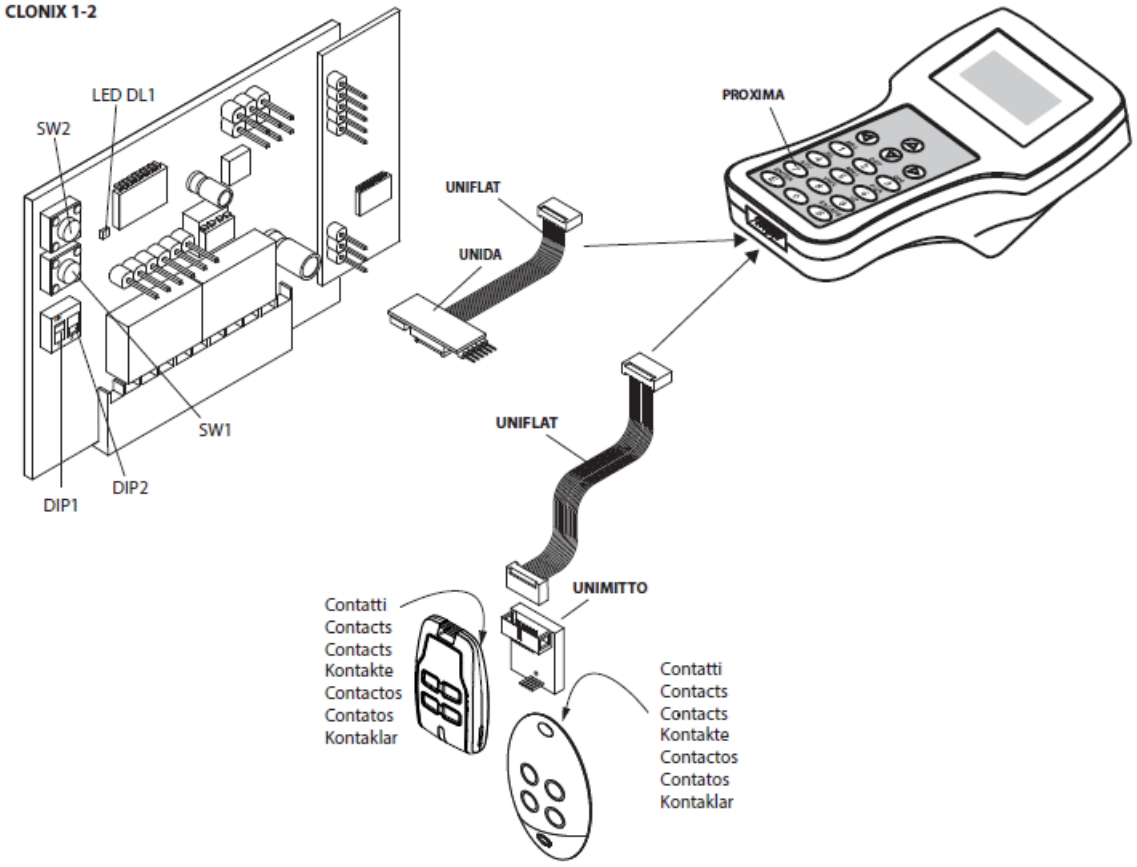
Use an antenna tuned to 433MHz. For the Antenna-Receiver connection, use the RG8 coaxial cable. The presence of metallic masses next to the antenna can interfere with radio reception. In case of insufficient transmitter range, move the antenna to a more suitable position.

PROGRAMMING

Transmitter storage can be carried out in manual mode, or by means of the Universal palmtop programmer which allows you to create installations in the “collective receivers” mode, as well as manage the complete installation database using the base software.

MANUAL PROGRAMMING

In the case of standard installations where no advanced functions are required, it is possible to proceed to manual storage of the transmitters, making reference to programming table A and to the example for basic programming in Fig.2.

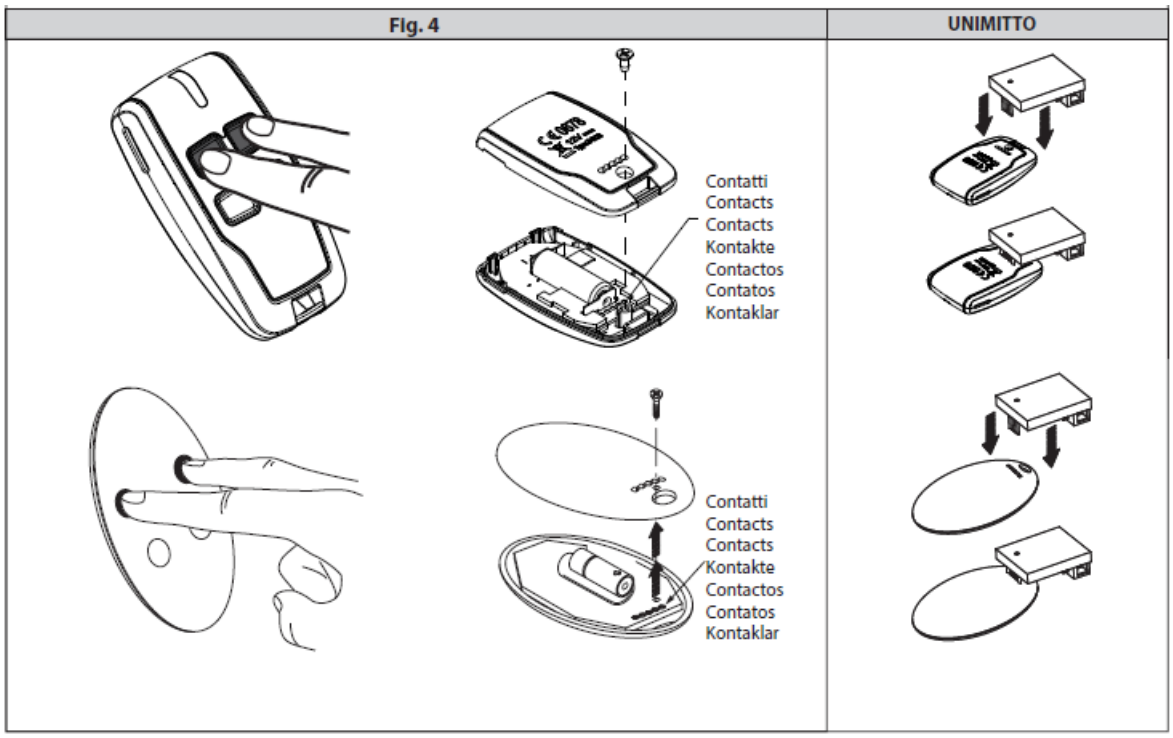


1. If you wish the transmitter to activate output 1, press pushbutton SW1, otherwise if you wish the transmitter to activate output 2, press pushbutton SW2.
2. If you wish to obtain functions other than monostable activation, refer to table A – output activation.
3. When LED DL1 starts blinking, press hid key P1 on the transmitter, LED DL1 will remain continuously lit.
   Note: Hidden key P1 appears differently depending on the transmitter model.
4. Press the key of the transmitter to be memorized, LED DL1 will flash quickly to indicate that it has been memorized successfully. Flashing as normal will then be resumed.
5. To memorize another transmitter, repeat steps 3) and 4).
6. o exit memorizing mode, wait for the LED to go off completely or press the key of a remote control that has just been memorized.

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

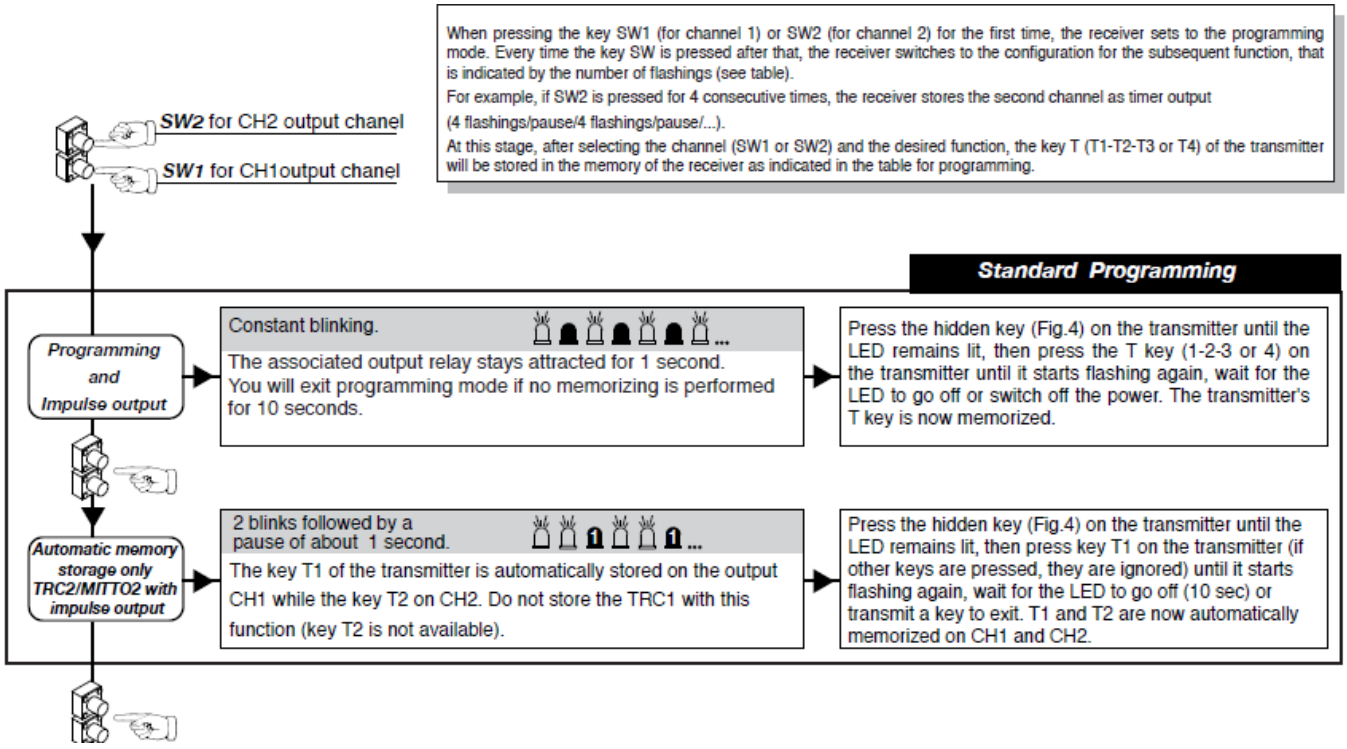
In the case of manual programming, the first transmitter assigns the key code to the receiver; this code is necessary in order to carry out subsequent cloning of the radio transmitters. Transmitter storage via radio in self-learning mode (DIP1 ON) This mode is used to copy the keys of a transmitter already stored in the receiver memory, without accessing the receiver. The first transmitter is to be memorized in manual mode (see paragraph 5).

- Press hidden key P1(fig.4) on the transmitter already memorized.



- Press key T on the transmitter already memorized, which is also to be attributed to the new transmitter.
- Within 10 sec., press key P1 on the new transmitter to be memorized.
- Press key T to be attributed to the new transmitter.
- To memorize another transmitter, repeat the procedure from step
- within a maximum time of 10 seconds, otherwise, the receiver exits the programming mode.

Note: with DIP1 ON/OFF, storage can also be carried out in manual mode. WARNING: Maximum protection from storage of foreign codes is obtained by having the DIP1 OFF and programming in MANUAL mode or by means of the Universal palmtop programmer (Fig. 3).

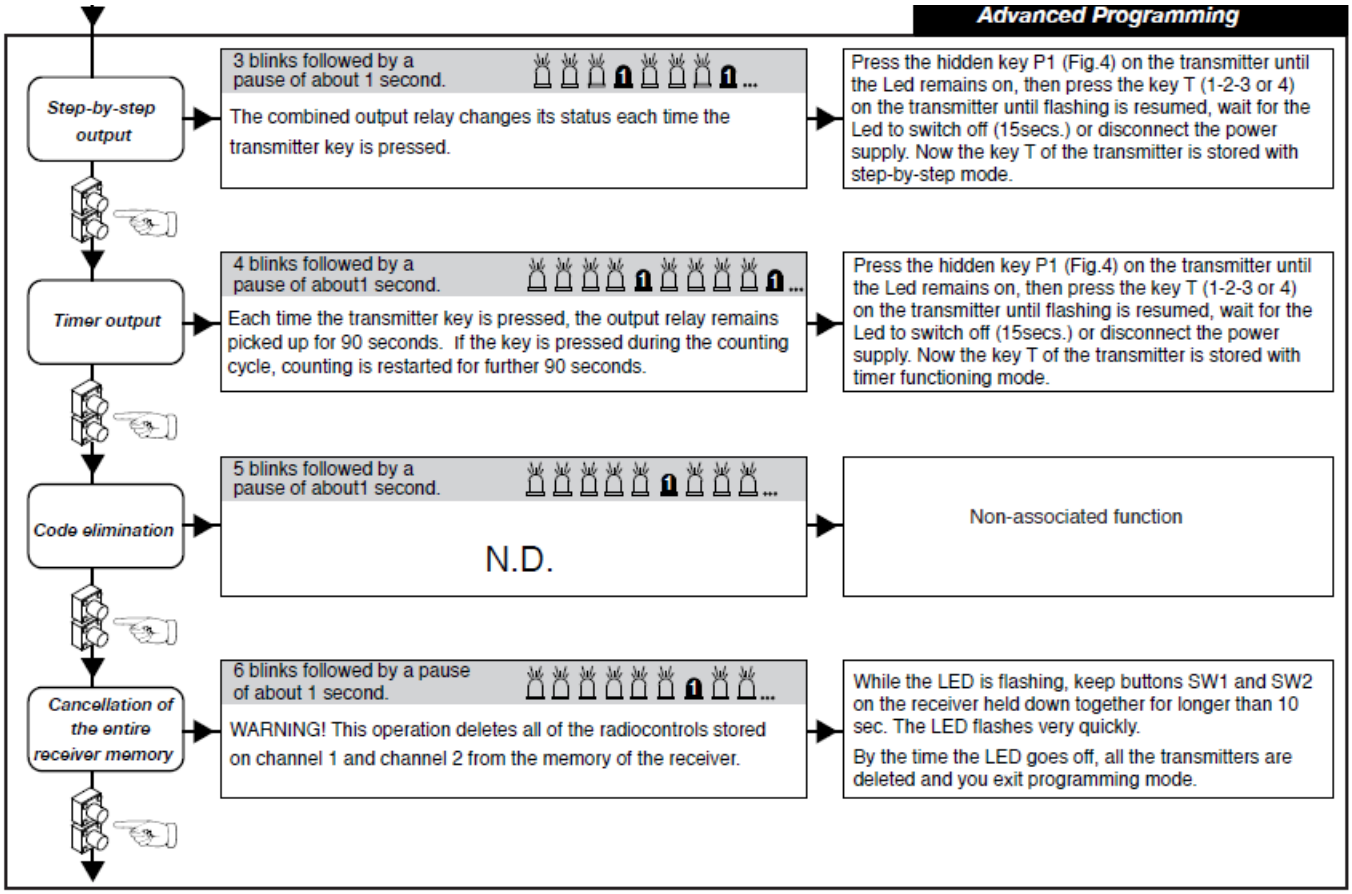


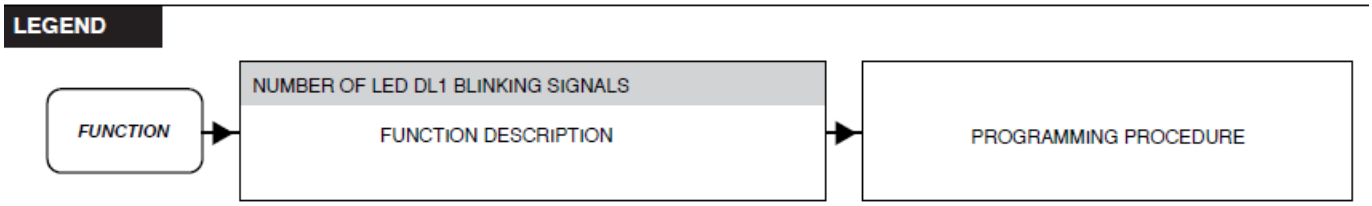
RADIO-TRANSMITTER CLONING

Rolling-code cloning (DIP2 OFF)/ Fixed-code cloning (DIP2 ON). Make reference to the Universal palmtop programmer Instructions and the CLONIX Programming Guide.

ADVANCED PROGRAMMING: COLLECTIVE RECEIVERS

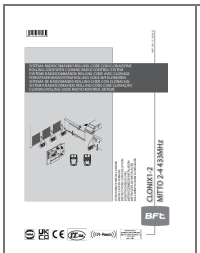
Make reference to the Universal palmtop programmer Instructions and the CLONIX Programming Guide.





Unit C2-C3 The Embankment Business Park, Vale Road Heaton Mersey Stockport Cheshire SK4 3GLUnited Kingdom

Documents / Resources

	BFt CLONIX1-2 Rolling-Code with Cloning Radio Control System [pdf] Instruction Manual CLONIX1-2 Rolling-Code with Cloning Radio Control System, CLONIX1-2, Rolling-Code with Cloning Radio Control System, Cloning Radio Control System, Radio Control System, Control System

References

- Error
- Bft Automation: Declarations of Conformity
- Bft Automation: Declarations of Conformity