HILTRON security

PX100 - PX200
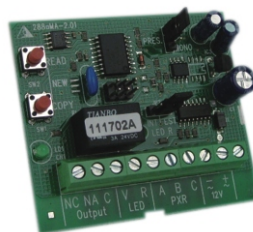
Control card of 12V/24V for PXN200

- **Coding for 32 bit (4294967296 combinations).**
- **Generation RANDOM of the code.**
- **Simplified Coding of the keys.**
- **Monostable / bistable / presence of man functioning .**
- **External control of inserter LEDs.**
- **Flahing LED to the recognition of the key**
- **Possibility to connect max 2 readers to parallel.**
- **Power supply voltage: 13Vcc ±5% (PX100)**
- **Absorption max: 120mA**
- **Contacts relay output : C/NC/NA**
- **Contacts relay capacity: 24V 1A**
- **Maximum distance of connection readers: 100mt**
- **Degree of security : 1**
- **Class environmental : 2**
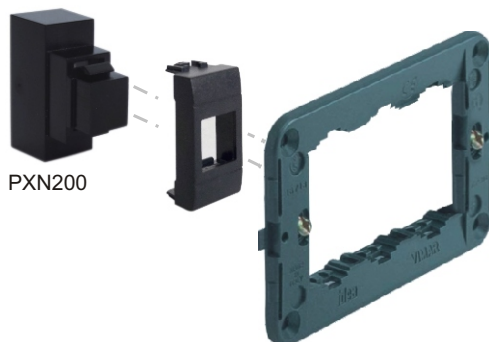- **Dimensions: 70x72mm**
- **Complying with the norm CEI EN 50131-1**

DESCRIPTION

PX100/PX200 is a system of command with a key of proximity with technology of microprocessor that replacing,to the obsolete electronic key "of contacts",new keys keyXX equipped of trasponder with memory EEprom auto programmable and code of 32 bit a casual generation.

The absence of contacts subject to use represents a valid innovation for the control of security systems or automation systems, by providing security, assurance and especially a long duration and a valid solution for the intensive use applications ; everything with a great facility of mounting and management both .

To adapt the device in just any pre-existent electric installation, the standard reader PXR can be placed in the following plugs:
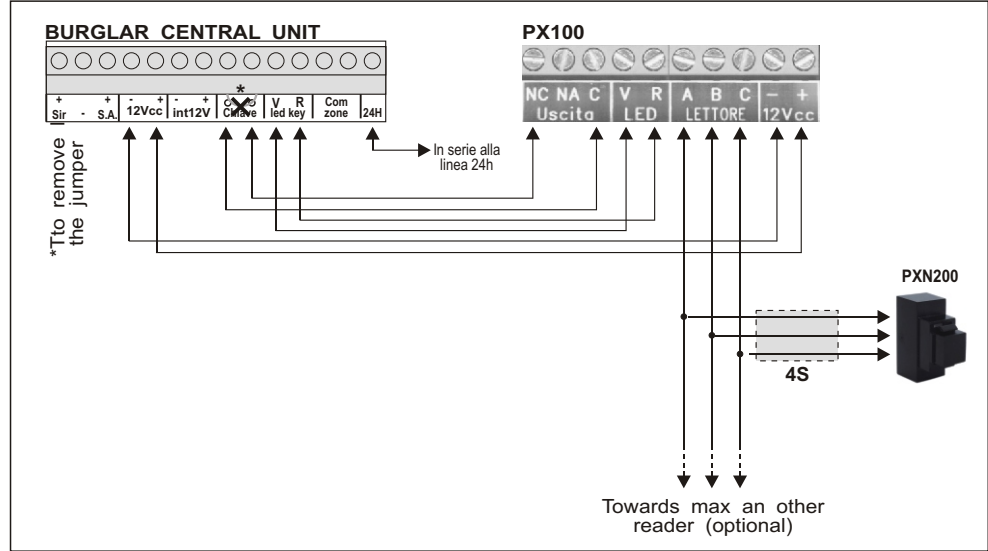
PXN200

WARNING!
The PX100/PX200 card and keys **are not coded**, in the kits and buying individually the articles both.
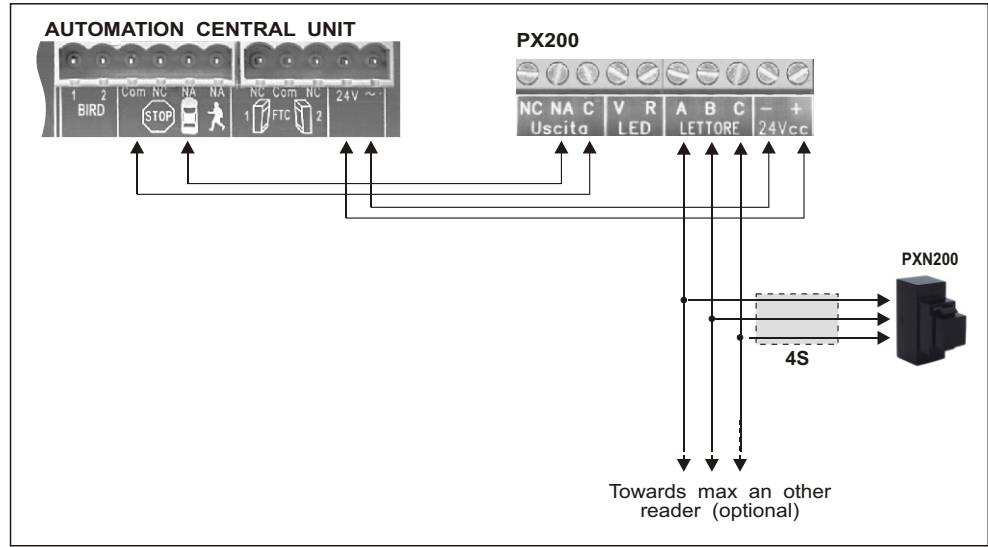
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INSTALLATION

    The installation is executed fixing PX100/PX200 card inside of the burglar central unit, using the plastic support and double-sided contained in the package.

Schema di collegamento PX100

BURGLAR CENTRAL UNIT

PX100

+ Sir	-	+ S.A.	- 12Vcc	+	- int12V	+	C NC Chiave	V led key	R	Com zone	24H

*Tto remove the jumper

In serie alla linea 24h

NC	NA	C	V	R	A	B	C	–	+
Uscita			LED		LETTORE			12Vcc	

PXN200

4S

Towards max an other
reader (optional)

Pattern of connection PX200

AUTOMATION CENTRAL UNIT

PX200

1	2 BIRD	Com NC NA NA STOP	NC Com NC 1 FTC 2	24V ~

NC	NA	C	V	R	A	B	C	–	+
Uscita			LED		LETTORE			24Vcc	

PXN200

4S

Towards max an other
reader (optional)

PROGRAMMING OF DEL FUNCTIONING.

- MONOSTABLE   JP1 = "MONO"

  The approach of the proximity key to the reader enables the relay "Output", that will disable after a few moment. <u>This is the functioning pulsed to the</u> **installation on central units PROTEC6GSM, TM600GSM and TM600P.** <u>It's necessary also to installation on the central units for automation gates.</u>

- BISTABLE   JP1 = "BIST"

The approach of the proximity key to the reader enables (or to disable) of relay "Output", simply by inverting the status where was beforeof the approach of the key. This is the functioning step by step, to control of burglar central units.

- " PRESENCE OF MAN "   JP1 = Off

  The approach of the proximity key to the reader enables the relay "Output" that will persist until will be pulled away the key from the reader. This is , a functioning named "Man's switch".

  The jumper JMP2, instead, to select the control of red LED :

- Interior: JP2 = "INT"
  - ♦ The red LED visualize the status of relay "Output".
  - ♦ The green LED is controlled through a positive tension of 13,5Vcc on the contact "V" of the terminal block .

- External: JP2 = "EST"
  - ♦ The green LED can be controlled through a positive tension of 13,5Vcc on the contact "V" of the terminal block.
  - ♦ The red LED can be controlled through a positive tension of 13,5Vcc on the contact "R" of the terminal block .

This condition can be used in the cas of you connect the PX100 to the burglar central units of the series TM; the two input (V-R) of control of LEDs are connected to the terminal blocks V and R on the central unit, in this way the green LED on indicates that the central unit is disconnected,when is off indicates that the central unit is connected;the red LED on indicates possible opened zones. When the two LEDs flashing at the same time indicate the time of exit of the central unit .

JP2 su "INT"	ON	OFF	FLASH.
RED LED	Relay ON	Relay OFF	
GREEN LED	Controllable through "V" on the terminal block		

JP2 su "EST"	ON	OFF	FLASH.
GREEN LED	Disconnected Central unit Included zones	Connected central unit Included zones	Disconnected central unit Excluded zones
RED LED	Zone/es opened	Zones closed	
GREEN AND RED LED			Time of exit

In every case the priority of visualisation remains always of the card PX100, that will interrupt the two lines of input to visualize its funtions when it is necessary, for example in the phase of programming or in phase of coding of the keys .

CODING OF THE KEYS

The card PX100/PX200 and the keys KEY are given <u>not coded,</u> and so it is necessary   <u>TO GENERATE A CODE</u> new on the card or to acquire it from a key already coded.

- **Generation of a new code on the card :**

Hold down the two buttons "COPY" and "READ" on the card for 5 seconds. Will flashing the green LED on the card , that will switch-off automatically just after. In this way is generated a new code.

- **Acquisition of a new code from a key already coded :**

Hold down the button "READ" on the card for 5 seconds. Will flashing the green LED on the card and will interrumptthe external control of two LEDs of connectors and, they begin to flash at the same time.
Approaching a key to the reader, two LEDs flashing fast to indicate the recognition , then remain switched off for about half second during the memorization of the read code inside of card and acquistion phase is over .

- **Coding of the keys with the code momorized on the card :**

Hold down the button "COPY" on the card for 5 seconds. Will on fixe the green LED on the card and will be interrupted the external control of two LEDs of the connectors, of them the red one will flashing fast.
To approaching a key,the red LED will switch off for a few moments to indicate that recognize the presence of a key: will on again fixe to indicate that the key has been coded with the code that is in the memory of the card .
Removing the key ,the red LED will flashing again and it will be possible to approach others keys to program, making sure for every key that the red LED is fixe on ,sign coding.
Pressing the two buttons programming will back to operative phase; will reactivated the external control of two LEDs of the connector.

KEYS USE
The trasponder inside keys is placed near the inferior side to the hole.
For this reason it is advisable to use the proximity key like in the figure.
In this way will obtein there will be a distance of about 2cm.

Recognising a key the LEDs on te connector flashing fastly.

WARNING!
Don't open the keys. It's impossible to make any Intervention within it.