



# CODEPROX-N



## INSTALLER MANUAL

IM\_ENG\_REV0122\_CODEPROX-N

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## 2.INTRODUCTION

Installation manual for CODEPROX-N reader. Proximity and PIN reader for stand-alone and slave operation.

## 3.SPECIFICATIONS

Material	Stainless steel and black ABS plastic
Protection degree	IP-66
Input voltage	12/18Vdc
Current	Standby current: ≤ 30mA / Active: ≤ 120mA
Capacity	990 users
Keypad	12 keys
Reading frequency	EM 125KHz
Reading range	0-6cm
Relay	NO, NC, common 2A max.
Transmission format	Wiegand 26
Dimension (H x W x D):	Electronics: 48(W) x 62(H) x 25(D)mm. Electronics plus front cover: 86(W) x 86(H) x 25(D)mm
Working temperature range:	-40 ~60° C
Working humidity range:	10-98% (non-condensing)

## 4.PRODUCT CONTENT

		Diode.
		Fixing blocks.
		Screws.
		Screw cover labels.

## 5.INSTALLATION

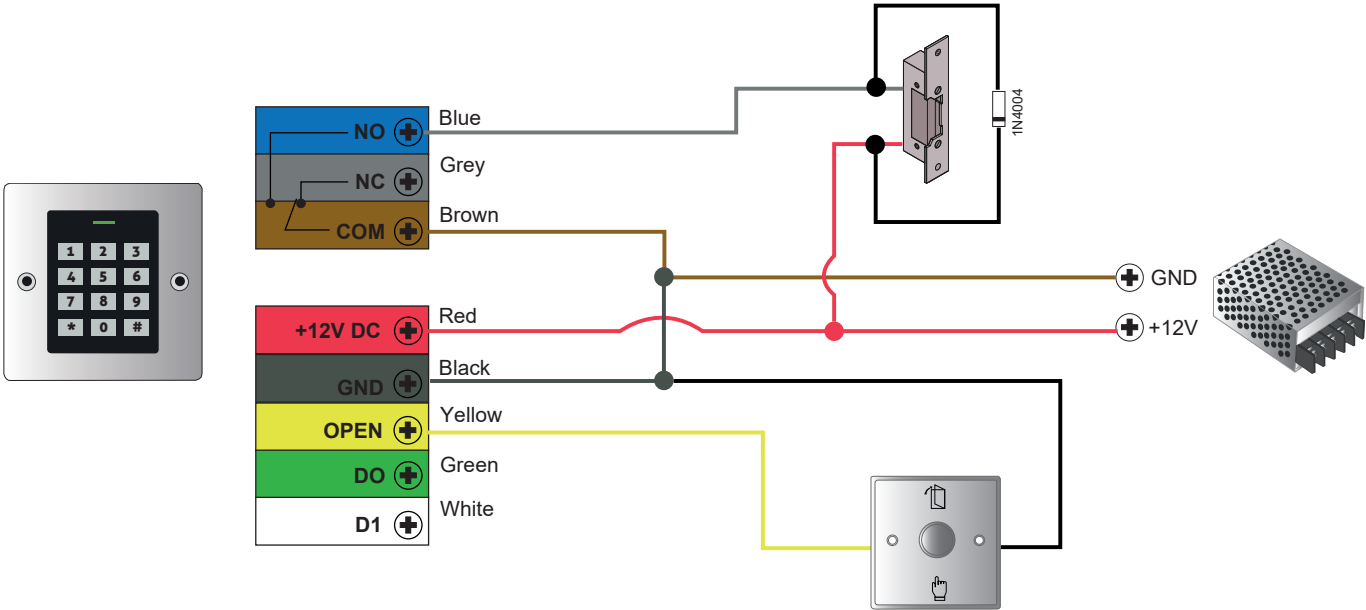
This reader is intended for mounting/integration in Nexa panels, which requires the use of an adapter module. However, it can also be mounted independently on a specific embedding box (universal embedding box is not valid).

See chapter “14. TYPES OF INSTALLATION” to proceed.

6.CONNECTION

WIRE COLOR	FUNCTION	DESCRIPTION
Red	12Vdc	Input 12-18V DC current
Black	GND	GND
Blue	NO	Normally open relay output
Brown	Common	Common contact for relay output
Grey	NC	Normally closed relay output
Yellow	Opening	Exit pushbutton
Green	D0	Wiegand Data 0 output
White	D1	Wiegand Data 1 output

7.STANDALONE CONNECTION DIAGRAM

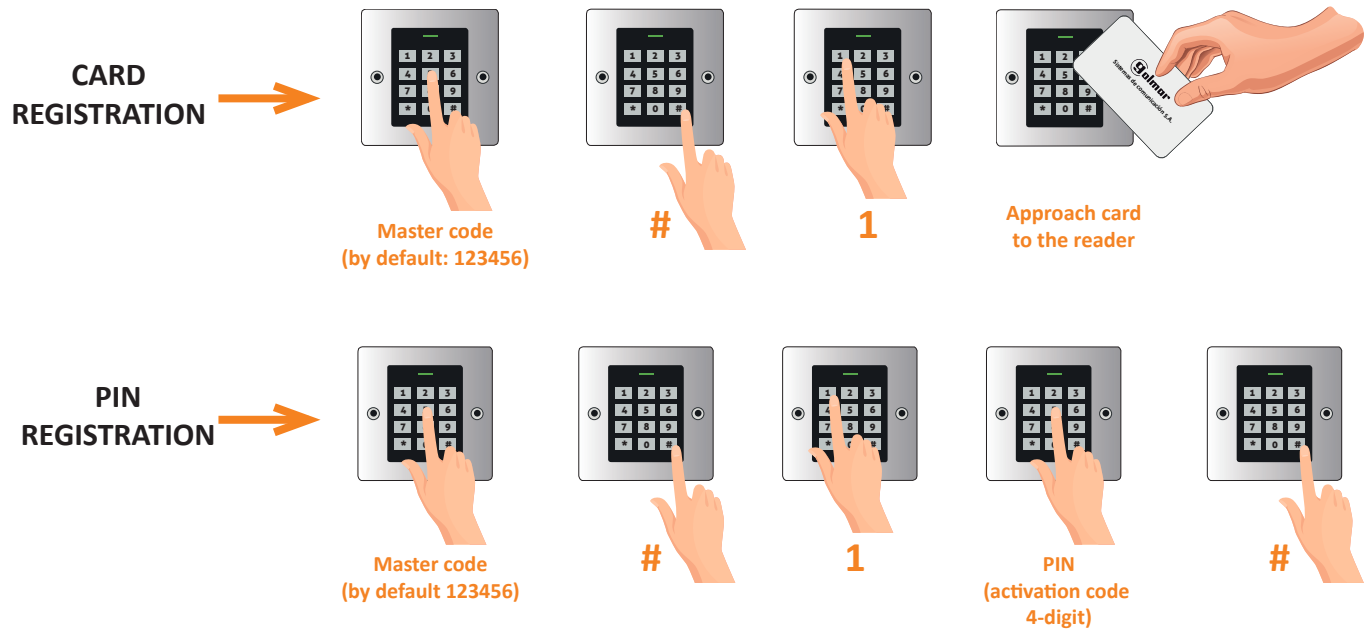


IMPORTANT: Do not forget to connect the supplied diode (1N4004) in parallel to the lock release to protect the equipment.

8.BASIC PROGRAMMING

Basic programming (user registration/deletion):

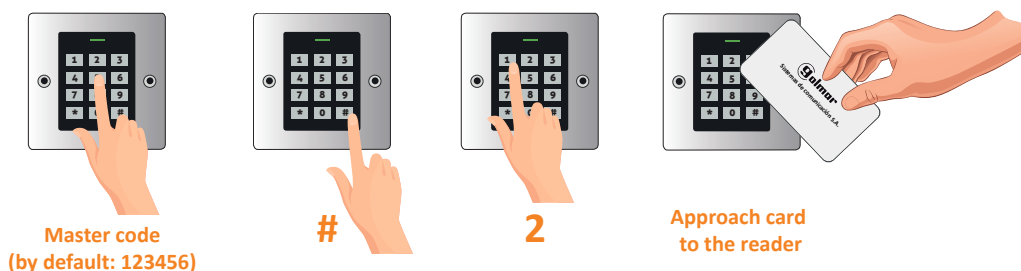
8.1. USER REGISTRATION





## 8.2. USER DELETION

### CARD DELETION



### PIN DELETION



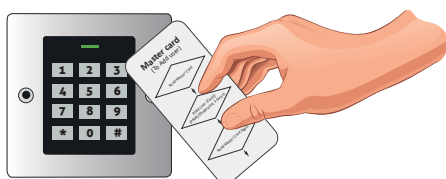
## 8.3. BASIC PROGRAMMING WITH MASTER CARD

It is possible to perform basic programming using a MASTER card. To do this, a MASTER card must be created by following the procedure described in chapter “10.4. Reset to factory settings”.

Once the MASTER card has been created, you can proceed as described below to perform basic programming:

### USER REGISTRATION

- 1) Approach the “Master Card” card to the reader.

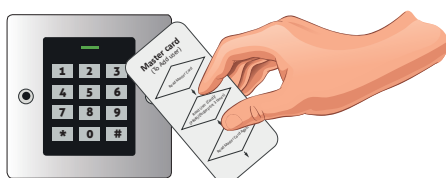


- 2) Approach the card or enter PIN to register.

\*For PIN enter 4 to 6 digit PIN plus #.



- 3) Approach the “Master Card” card to the reader.



### USER DELETION

- 1) Approach the “Master Card” card to the reader 2 times at an interval shorter than 5 seconds.

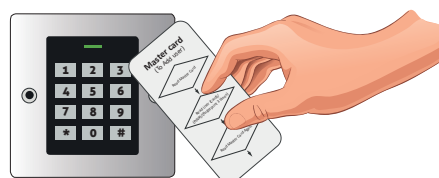


- 2) Approach card or enter PIN to delete.

\*For PIN enter 4 to 6 digit PIN plus #.



- 3) Approach the “Master Card” card to the reader.



### NOTE

In case of loss of the MASTER CARD it is possible to replace the previous one by performing again the process described in chapter “10.4. Reset to factory settings”.

## 9.ADVANCED PROGRAMMING

### 9.1. PROGRAMMING

Perform the following sequence to enter programming:

Enter to administrator mode		
*	MASTER CODE (by default: 123456)	#

#### IMPORTANT

The reader will indicate the access to programming with the “green” lighting up and then the flashing LED in “red”. At the start of the programming sequence (function to be programmed) the led will be “orange”.

To exit programming, press “\*” and the reader will go to standby, the status LED will be “steady red”. If you do not press anything, after 30 seconds the reader will also automatically exit programming.

Once in programming, perform the desired programming sequence. The different system programming sequences are detailed below.

#### 9.1.1.CHANGE MASTER CODE

It is highly recommended to modify the master code:

Enter administrator mode		
*	MASTER CODE	#
0	NEW MASTER CODE (6 DIGITS)	#
	NEW MASTER CODE (6 DIGITS)	#

Example: \* 123456 # 0 987654 # 987654 #

#### 9.1.2.CARD REGISTRATION (AUTO ID)

Card registration with automatic registration.

Enter administrator mode		
*	MASTER CODE	#
1	APPROACH CARD	

Example: \* 987654 # 1 APPROACH CARD

#### 9.1.3.CARD REGISTRATION (specific ID)

Maximum number of records is 990. User IDs from 0 to 989.

Enter administrator mode		
*	MASTER CODE	#
1	USER ID (0-989)	#
	APPROACH CARD	

Example: \* 987654 # 1 1 # APPROACH CARD

IMPORTANT: do not enter user IDs with zeros before the ID value.

#### 9.1.4.PIN REGISTRATION (AUTO ID)

PIN registration with automatic recording position.

Enter administrator mode		
*	MASTER CODE	#
1	PIN	#

Example: \* 987654 # 1 4543 #

#### 9.1.5.PIN REGISTRATION (specific ID)

Maximum number of records is 990. User IDs from 0 to 989.

Enter administrator mode		
*	MASTER CODE	#
1	USER ID (0-989)	#
	PIN	#

Example: \* 987654 # 1 1 # 4543 #

IMPORTANT: do not enter user IDs with zeros before the ID value.

#### 9.1.6.PIN DELETION

PIN deletion by entering the PIN number to be deleted.

Enter administrator mode		
*	MASTER CODE	#
2	INTRODUCE PIN	#

Example: \* 987654 # 2 4543 #

**9.1.7.CARD DELETION**

Deletion of cards by approaching the card to be deleted.

Enter administrator mode		
*	MASTER CODE	#

2	APPROACH CARD
---	---------------

Example: \* 987654 # 2 APPROACH CARD

**9.1.8.DELETING CARDS OR PIN (specific ID)**

Enter the ID corresponding to the user to be deleted.

Enter administrator mode		
*	MASTER CODE	#

2	USER ID (0-989)	#
---	--------------------	---

Example: \* 987654 # 2 1 #

**9.1.9.MODIFY PIN**

It is possible to change the PIN, but it is not necessary to access programming. When the reader is in standby mode, enter:

*	USER ID	#	PIN TO MODIFY	#	NEW PIN	#	NEW PIN	#
---	---------	---	---------------	---	---------	---	---------	---

Example: \* 1 # 4543 # 6688 # 6688 #

**10.OTHER SETTINGS****10.1. IDENTIFICATION MODE****10.1.1.IDENTIFICATION BY CARD OR PIN (default value)**

Enter administrator mode		
*	MASTER CODE	#

30	#
----	---

Example: \* 987654 # 30 #

**10.1.2.IDENTIFICATION BY CARD ONLY**

Enter administrator mode		
*	MASTER CODE	#

32	#
----	---

Example: \* 987654 # 32 #

**10.2. ALARM SETTINGS (TAMPER)****10.2.1.ACTIVATE TAMPER**

Enter administrator mode		
*	MASTER CODE	#

5(0-3)	#
--------	---

Example: \* 987654 # 52 #

The tamper alarm activation time is from 0 to 3 minutes. In the example, the value 52 has been entered, so it would be active for 2 minutes. Default value: 51 (1 minute).

**10.3. RELAY SETTINGS****10.3.1.PULSE MODE**

Enter administrator mode		
*	MASTER CODE	#

4	1-99	#
---	------	---

Example: \* 987654 # 4 15 #

The pulse can be active from 1 to 99 seconds. In the example, the value 15 has been entered, so it would be active for 15 seconds. Default value: 5 seconds.

**10.3.2.LATCHING MODE**

Enter administrator mode		
*	MASTER CODE	#

4	0	#
---	---	---

Example: \* 987654 # 4 0 #

The relay switches to ON/OFF mode.

**10.4. LOCKOUT ALARM (FAILED ATTEMPTS)**

The lockout alarm will be triggered after 10 unsuccessful card/PIN entry attempts. The factory default is OFF, but it can be set to deny access for 10 minutes or to activate the alarm after triggering.

**10.4.1. LOCKOUT DISABLED (default value)**

Enter administrator mode					
*	MASTER CODE	#	60	#	

Example: \* 987654 # 60 #

**10.4.2. 10-MINUTES ACCESS LOCKOUT**

Enter administrator mode					
*	MASTER CODE	#	61	#	

Example: \* 987654 # 61 #

The LED will start blinking and the reader will be locked for 10 minutes. To return to the normal state, wait 10 minutes or restart the reader.

**10.4.3. ALARM**

Enter administrator mode					
*	MASTER CODE	#	62	#	

Example: \* 987654 # 62 #

In case a valid user card or MASTER card is approached, the alarm will stop.

**10.4. RESET TO FACTORY DEFAULTS**

The reset returns the reader to factory defaults. Restoring the configuration and the master code. User information will be kept.

1. Turn off the power.
  2. Press and hold the exit button\*.
  3. Turn on the power.
  4. When you hear 2 beeps, release the output button\*.
  5. The LED will light up **yellow**.
  6. Approach a 125KHz card through the reader.
  7. The light will illuminate **red** and the equipment will be reset to factory defaults.
- \*\*Requires exit push button, **yellow** wire (OPEN) and black wire (GND) to be connected.

**NOTE**

- This process generates a MASTER card replacing the previous one.
- In case you do not wish to replace the current master card, press the \* button instead of step 6 to finalise the reset.

**10.5. DELETION OF ALL USERS**

Enter administrator mode					
*	MASTER CODE	#	2	0000	#

Example: \* 987654 # 2 0000 #

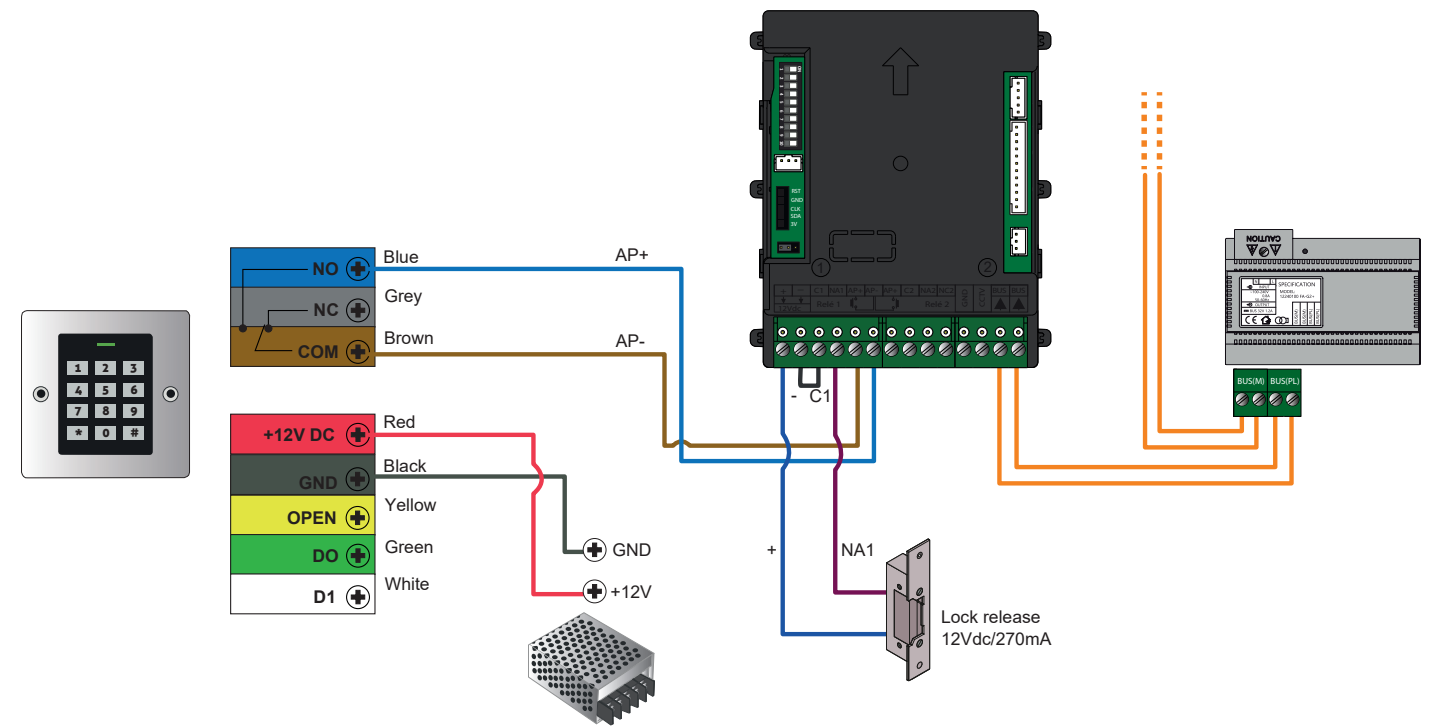
**IMPORTANT:**

Before performing this function, make sure that it is OK to REMOVE all previously registered users.

**11. STATUS DISPLAYS**

OPERATING STATUS	COLOUR LED	BUZZER
Stand by	Rojo	-
Enter programming mode	Flashing red	Short beep
In programming mode	Orange	Short beep
Operation error	-	3 beeps
Exit programming mode	Red	Short beep
Door open	Green	Short beep
Alarm	Flashing red	Beeps

12.CONNECTION DIAGRAM WITH VIDEO DOOR SYSTEM



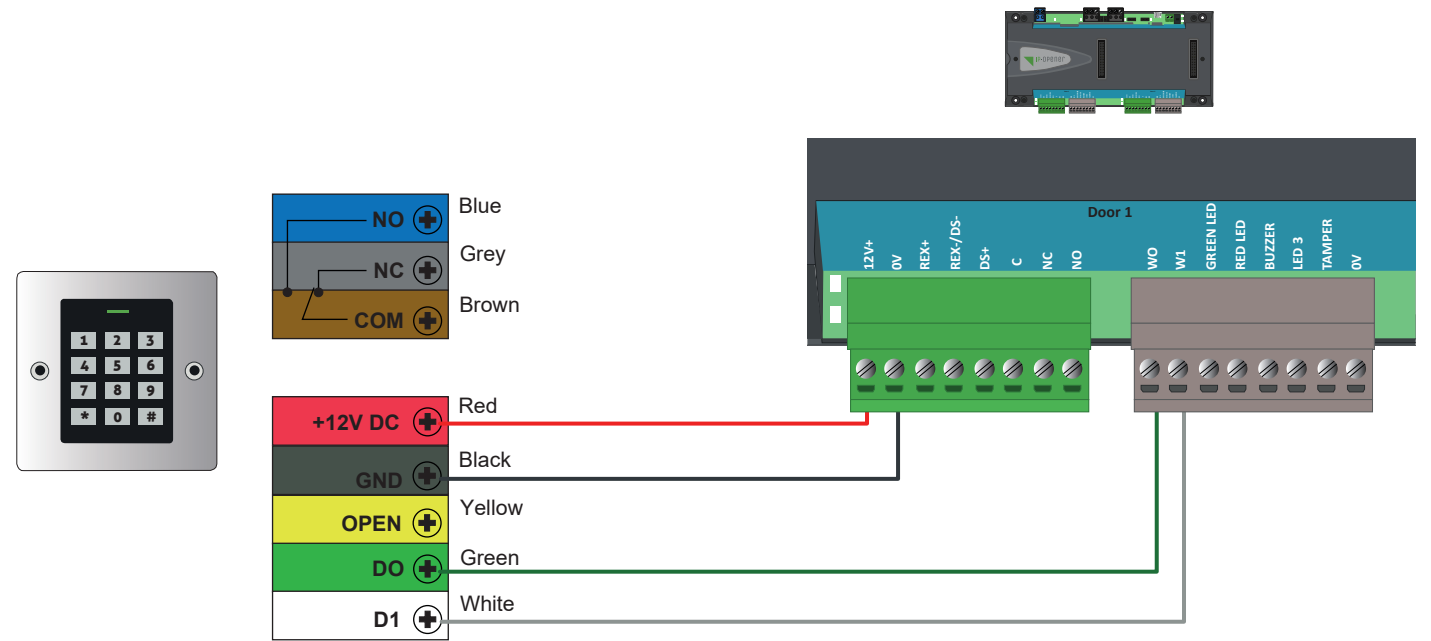
NOTE: The door opener (AP) does not activate the lock release until the pulse on the CODEPROX-N reader has been finished. To avoid opening delays set the minimum pulse time to 1 second at the reader:

Enter administrator mode					
*	MASTER CODE	#	4	1	#

13.WIEGAND

The following chapter describes how to use the CODEPROX-N reader in an iP Opener system with a Wiegand controller.

13.1. CONNECTION DIAGRAM



13.2. PROGRAMMING

13.2.1.PROGRAMMING CARD

Generate a user with credential type “Other (decimal)” and enter in the field “code” the ID of the card or key fob:

Last name \*

Card user

First name

First name

Type

Resident

Door/zone access

Perfil de acceso TODO

> Additional profiles

> Extra options

> Additional information

Credentials

> Add a credential

Type

Other (decimal)

Code (numeric)

0004601388

PROKEY ID

Sistemas de comunicación S.A.

PROKEY ID  
20710008

0004601388

070,16868

TAGKEY ID

At this point the card or key fob will be registered in iP Opener and your access will be granted:

Fecha / Hora	Evento	Elemento	Informaciones	Dirección de la persona	Grupo	Login
2022-06-28 12:31:30	Acceso autorizado	2º WIEGAND - Puerta 0001 Lector 0001 Secu	Usuario Tarjeta	—	—	0004601388

Fecha / Hora	Evento	Elemento	Informaciones	Dirección de la persona	Grupo	Login
2022-06-28 12:32:24	Acceso autorizado	2º WIEGAND - Puerta 0001 Lector 0001 Secu	Usuario Llavero	—	—	0009701804

13.2.2.PROGRAMING PIN

Generate a user with credential type “Other (decimal)”, following the next format when filling in the field “Code”:

4-digit PIN (X equals PIN):0000XXXX

5-digit PIN (X equals PIN):000XXXXX

6-digit PIN (X equals PIN):00XXXXXX

10

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Example with PIN code registration 4543:

At this point the PIN code will be registered in iP Opener:

Fecha / Hora	Evento	Elemento	Informaciones	Login
2022-01-26 13:02:09	Acceso autorizado	2P Wie - Puerta 0001 Lector 0001 Perfil de acceso todo	Usuario PIN	00004543

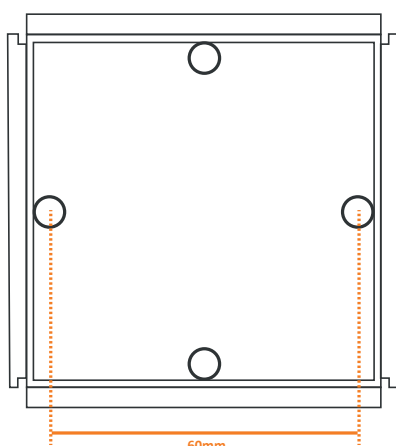
NOTE:

The use of the reader integrated in the iP Opener system implies the loss of the buzzer and led states ( there will be no visual and audible confirmation on the reader of validated or denied accesses).

## 14.TYPES OF INSTALLATION

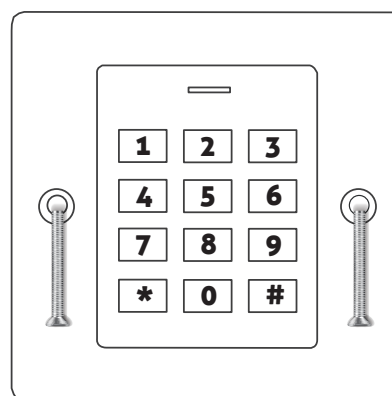
### 14.1. STAND-ALONE INSTALLATION

As briefly mentioned in section “5.INSTALLATION”, the installation of these readers is designed to be integrated in Nexa panels. However, you can choose to install the reader independently on a embedding box. In this case, follow the steps below:



1

Place a embedding box AP-1 (20363401).



2

Attach the reader to the box with the metric screws supplied. Then cover the screws with the supplied screw cover labels.

**IMPORTANT:** The reader incorporates an anti-tamper LDR sensor on the back of the reader . It is light-sensitive, so if light shines on the sensor after placing the reader, the tamper alarm will be triggered.

#### 14.2. INSTALLATION ON NEXA PANEL

The integration of the reader on the Nexa panel requires the use of the reader in kit format:

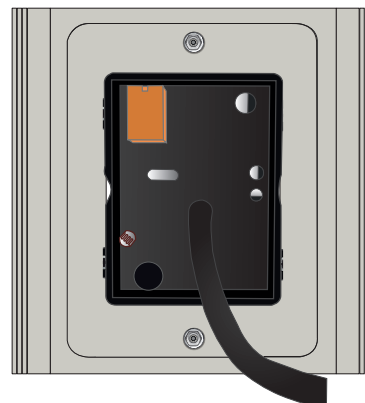
N3000/CODEPROX-N (20700017), kit for CODEPROX-N reader mounting on Nexa Aluminium.

NX3000/CODEPROX-N (20700018), kit for CODEPROX-N reader mounting on Nexa Inox.

Due to the fact that the kit is supplied with the reader assembled in a special Nexa cover:



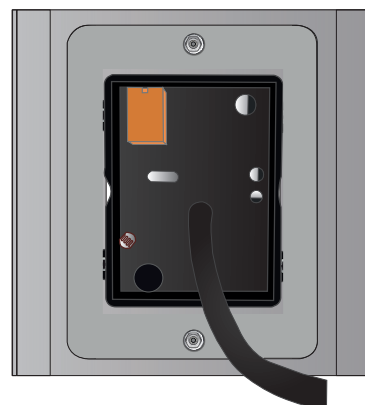
Front view of Nexa Aluminium cover panel with reader



Back view of Nexa Aluminium cover panel with reader



Front view of Nexa Inox cover panel with reader



Back view of Nexa Inox cover panel with reader





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