



# CODEPROX-N



## INSTALLER MANUAL

IM\_ENG\_REV0125\_CODEPROX-N

## 1. INDEX

|                                                    |    |
|----------------------------------------------------|----|
| 1.Index .....                                      | 2  |
| 2.Introduction .....                               | 3  |
| 3.Specifications .....                             | 3  |
| 4.Product content .....                            | 3  |
| 5.Installation .....                               | 3  |
| 6.Connection .....                                 | 4  |
| 7.Standalone connection diagram.....               | 4  |
| 8.Basic programming.....                           | 4  |
| 8.1.User registration.....                         | 4  |
| 8.2.User deletion .....                            | 5  |
| 8.3.Basic programming with master card .....       | 5  |
| 9.Advanced programming .....                       | 6  |
| 9.1.Programming .....                              | 6  |
| 9.1.1.Change master code .....                     | 6  |
| 9.1.2.Card registration (auto ID).....             | 6  |
| 9.1.3.Card registration (specific ID).....         | 6  |
| 9.1.4.PIN registration (auto ID) .....             | 6  |
| 9.1.5.PIN registration (specific ID) .....         | 6  |
| 9.1.6.PIN deletion .....                           | 6  |
| 9.1.7.Card deletion .....                          | 7  |
| 9.1.8.Deleting cards or PIN (specific ID) .....    | 7  |
| 9.1.9.Modify PIN.....                              | 7  |
| 10.Other settings .....                            | 7  |
| 10.1.Identification mode.....                      | 7  |
| 10.1.1.Identification by card or PIN .....         | 7  |
| 10.1.2.Identification by card only.....            | 7  |
| 10.1.3.Identification by PIN only .....            | 7  |
| 10.2.Relay settings.....                           | 7  |
| 10.2.1.Pulse mode .....                            | 7  |
| 10.2.2.Latching mode.....                          | 7  |
| 10.3.Alarm settings (tamper) .....                 | 8  |
| 10.3.1.Activate tamper .....                       | 8  |
| 10.4.Lockout alarm .....                           | 8  |
| 10.4.1.Lockout disabled.....                       | 8  |
| 10.4.2.10-minute access lockout.....               | 8  |
| 10.4.3.Alarm.....                                  | 8  |
| 10.4.Reset to factory defaults .....               | 8  |
| 10.5.Deletion of all users.....                    | 8  |
| 11.Status displays.....                            | 9  |
| 12.Connection diagram with video door system ..... | 9  |
| 13.Wiegand .....                                   | 9  |
| 13.1.Connection diagram .....                      | 9  |
| 13.2.Programming .....                             | 10 |
| 13.2.1.Programming card .....                      | 10 |
| 13.2.2.Programming PIN .....                       | 11 |
| 14.Types of installation .....                     | 11 |
| 14.1. Stand-alone installation.....                | 11 |
| 14.2.Installation on Nexa panel.....               | 12 |
| 15.Annex.....                                      | 12 |
| 15.1.Buzzer settings.....                          | 12 |
| 15.2.Led settings.....                             | 12 |

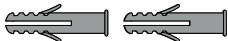
## 2.INTRODUCTION

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: $\leq 30\text{mA}$ / Active: $\leq 120\text{mA}$                              |
| Capacity                   | 990 users                                                                                      |
| Keypad                     | 12 keys                                                                                        |
| Reading frequency          | EM 125KHz                                                                                      |
| Reading range              | 0-6cm                                                                                          |
| Relay                      | NO, NC, common<br>2A max.                                                                      |
| Transmission format        | Wiegand 26                                                                                     |
| Dimension (H x W x D):     | Electronics: 48(W) x 62(H) x 25(D)mm.<br>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

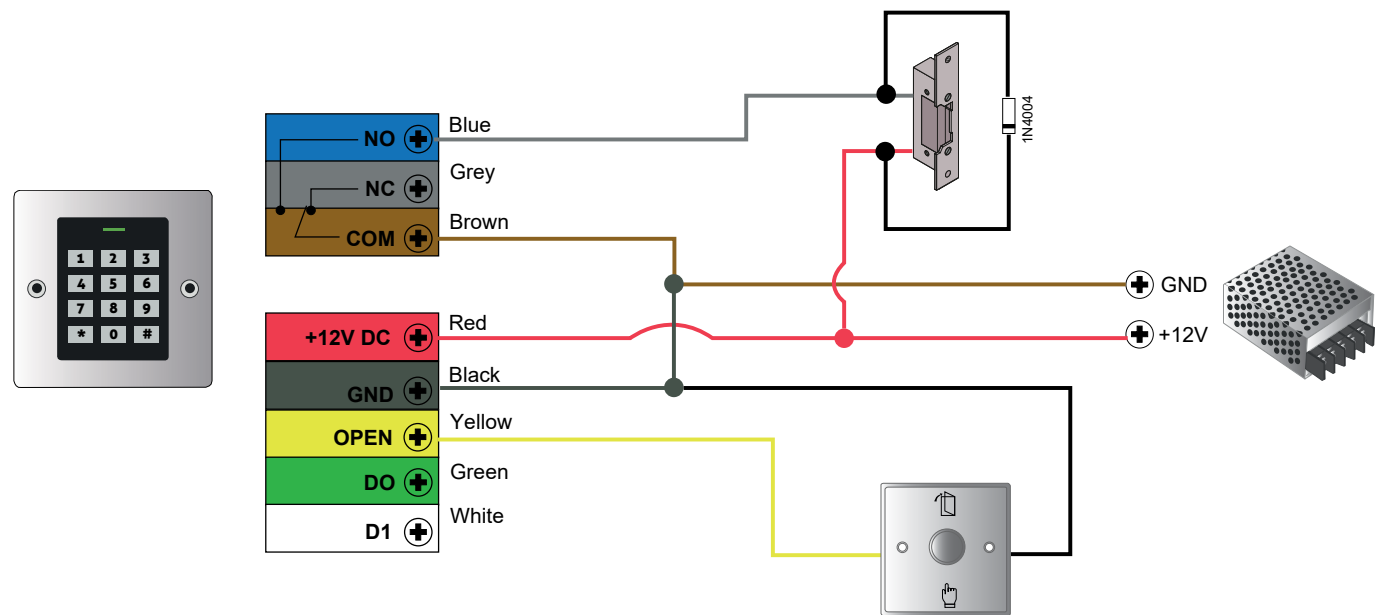
This reader is intended for mounting/integration in Nexa panels, which requires the use of an adapter module. However, it can also be mounted independently on a specific embedding box (universal embedding box is not valid).

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

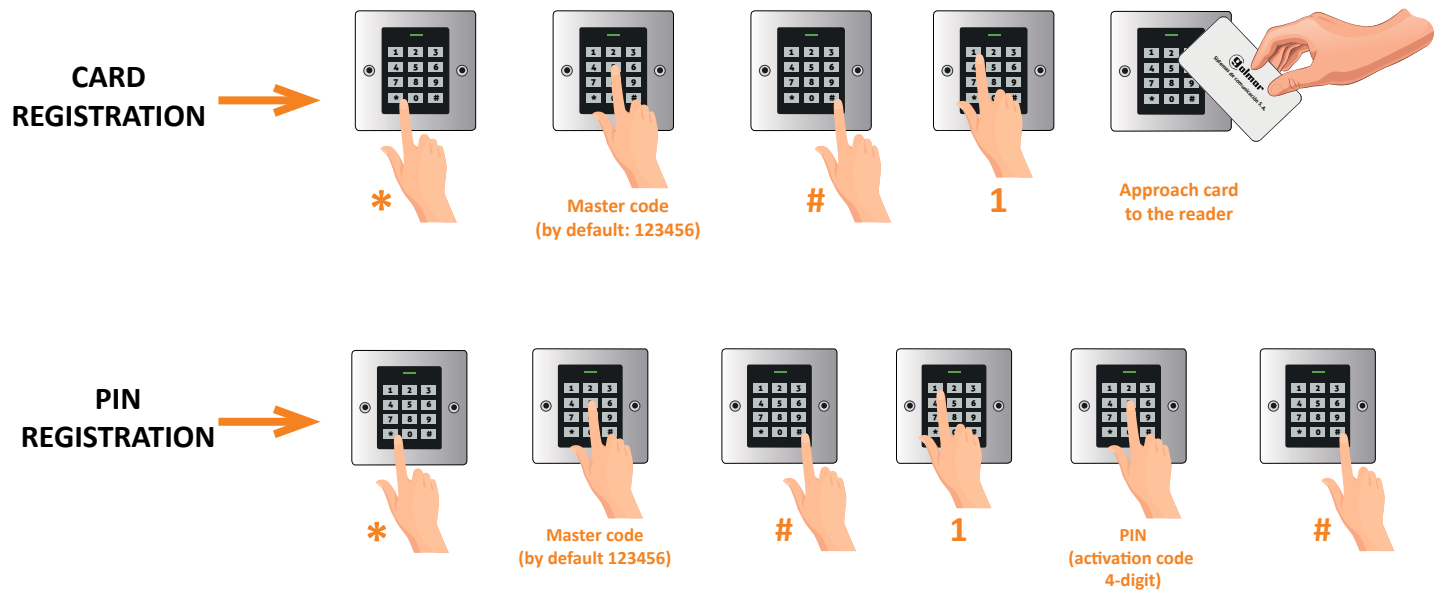


IMPORTANT: Do not forget to connect the supplied diode (1N4004) in parallel to the lock release to protect the equipment.

8.BASIC PROGRAMMING

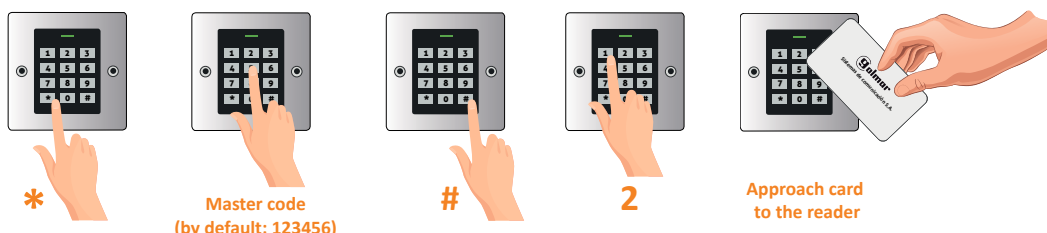
Basic programming (user registration/deletion):

8.1. USER REGISTRATION

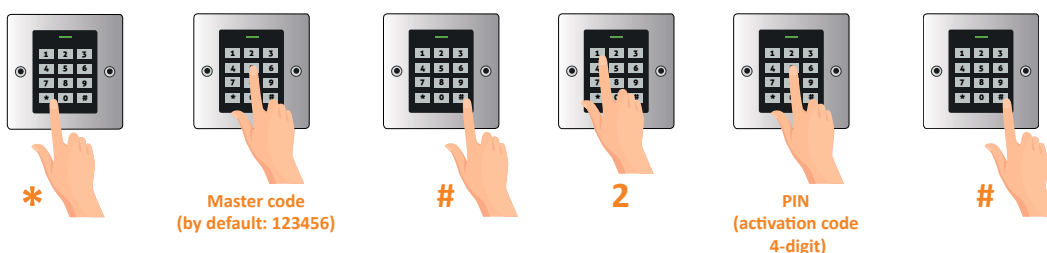


## 8.2. USER DELETION

### CARD DELETION



### PIN DELETION



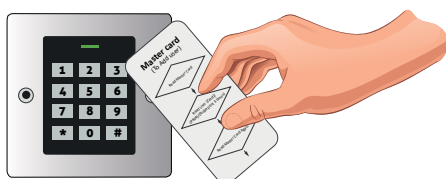
## 8.3. BASIC PROGRAMMING WITH MASTER CARD

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.

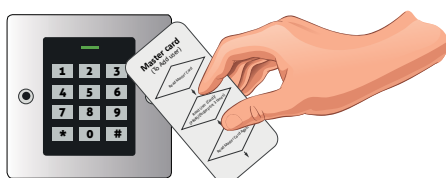


- 2) Approach the card or enter PIN to register.

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



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



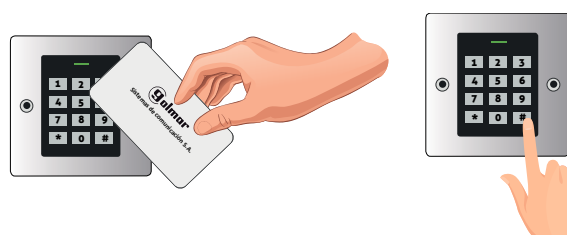
### USER DELETION

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

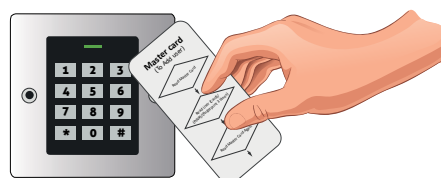


- 2) Approach card or enter PIN to delete.

\*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<br>(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<br>(6 DIGITS) | # |
|                          | NEW MASTER CODE<br>(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<br>(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<br>(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<br>(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 | # |

|    |   |
|----|---|
| 43 | # |
|----|---|

Example: \* 987654 # 43 #

**10.1.2.IDENTIFICATION BY CARD ONLY**

|                          |             |   |
|--------------------------|-------------|---|
| Enter administrator mode |             |   |
| *                        | MASTER CODE | # |

|    |   |
|----|---|
| 40 | # |
|----|---|

Example: \* 987654 # 40 #

**10.1.2.IDENTIFICATION BY PIN ONLY**

|                          |             |   |
|--------------------------|-------------|---|
| Enter administrator mode |             |   |
| *                        | MASTER CODE | # |

|    |   |
|----|---|
| 41 | # |
|----|---|

Example: \* 987654 # 41 #

**10.2. RELAY SETTINGS****10.2.1.PULSE MODE**

|                          |             |   |
|--------------------------|-------------|---|
| Enter administrator mode |             |   |
| *                        | MASTER CODE | # |

|   |      |   |
|---|------|---|
| 3 | 1-99 | # |
|---|------|---|

Example: \* 987654 # 3 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: 5s.

**10.2.2.LATCHING MODE**

|                          |             |   |
|--------------------------|-------------|---|
| Enter administrator mode |             |   |
| *                        | MASTER CODE | # |

|   |   |   |
|---|---|---|
| 3 | 0 | # |
|---|---|---|

Example: \* 987654 # 3 0 #

**IMPORTANT**

Readers with lots lower than number '1/25' have a different firmware version, in case the reader is older than 2025 for the functions 'Identification mode' and 'Relay settings' please refer to the manual version REV0123 (IM\_ESP\_REV0123\_CODEPROX-N).



**10.3. ALARM SETTINGS (TAMPER)****10.3.1.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).

**10.4. 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 button  from the keypad.
3. Turn on the power.
4. When you hear 2 beeps, release the button  from the keypad.
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.

**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 #

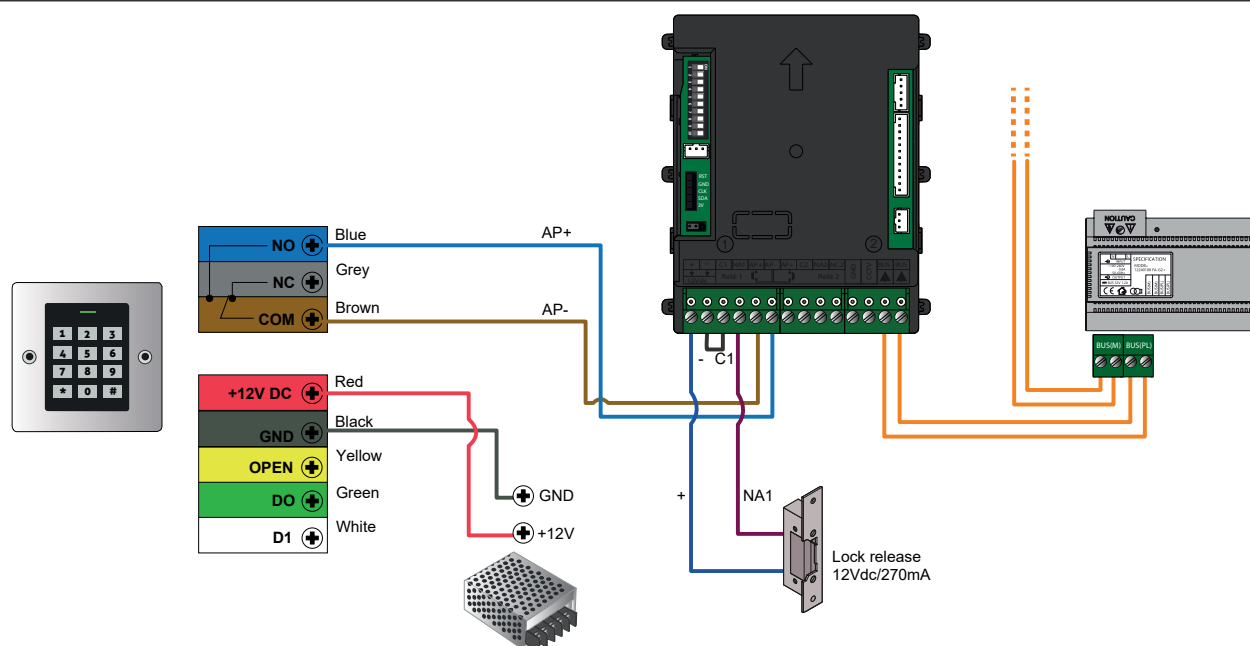
**IMPORTANT:**

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



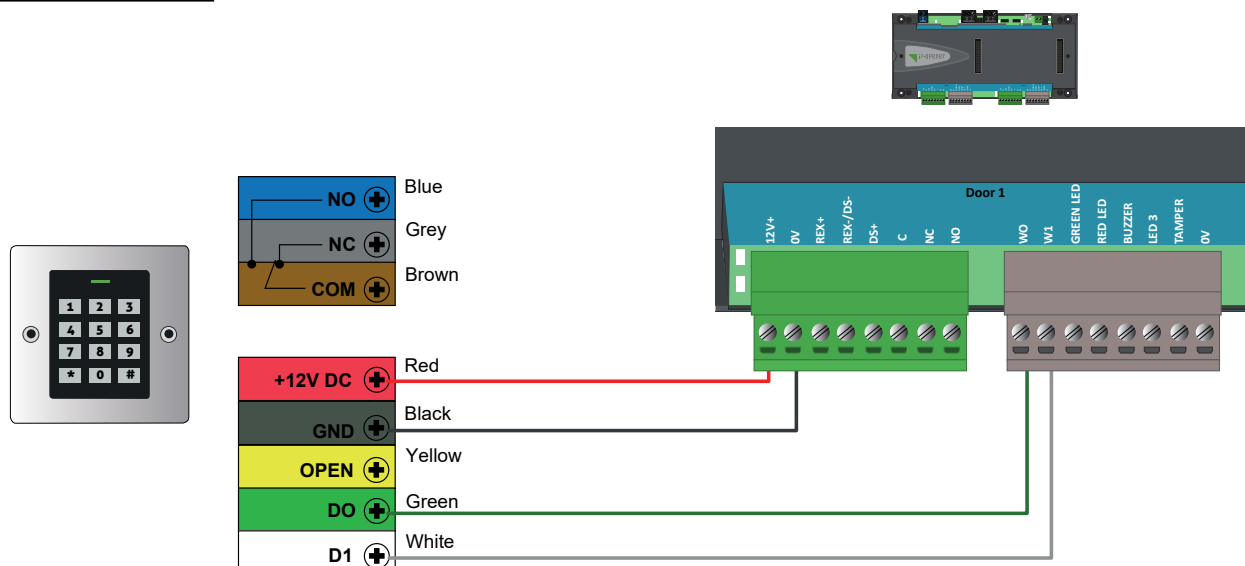
NOTE: The door opener (AP) does not activate the lock release until the pulse on the CODEPROX-N reader has been finished. To avoid opening delays set the minimum pulse time to 1 second at the reader:

|                          |             |   |   |   |   |
|--------------------------|-------------|---|---|---|---|
| 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

**Golmar**  
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<br>Lector 0001<br>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<br>Lector 0001<br>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

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<br>Lector 0001<br>Perfil de acceso todo | Usuario PIN   | 00004543 |

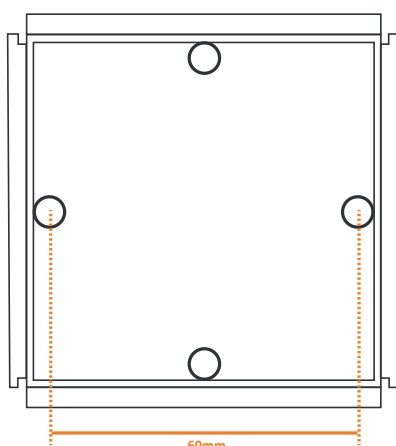
NOTE:

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

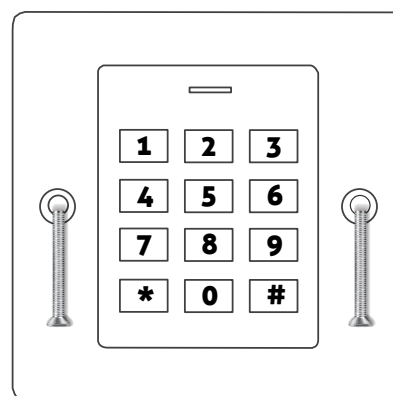
### 14.1. STAND-ALONE INSTALLATION

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

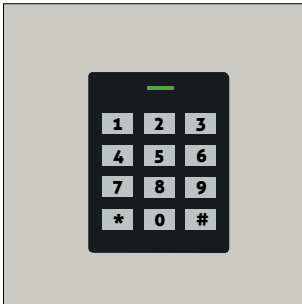
Attach the reader to the box with the metric screws supplied. Then cover the screws with the supplied screw cover labels.

**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

15.ANNEX

The following functions are available on readers manufactured from 2025 onwards, check manufacturing batch on product label:



15.1. BUZZER SETTINGS

BUZZER ACTIVATED

|                          |             |   |                    |   |
|--------------------------|-------------|---|--------------------|---|
| Enter administrator mode |             |   |                    |   |
| *                        | MASTER CODE | # | 71 (default value) | # |

Example: \* 987654 # 71 #

BUZZER DEACTIVATED

|                          |             |   |    |   |
|--------------------------|-------------|---|----|---|
| Enter administrator mode |             |   |    |   |
| *                        | MASTER CODE | # | 70 | # |

Example: \* 987654 # 70 #

15.2. LED SETTINGS

LED ACTIVATED

|                          |             |   |                    |   |
|--------------------------|-------------|---|--------------------|---|
| Enter administrator mode |             |   |                    |   |
| *                        | MASTER CODE | # | 73 (default value) | # |

Example: \* 987654 # 73 #

LED DEACTIVATED

|                          |             |   |    |   |
|--------------------------|-------------|---|----|---|
| Enter administrator mode |             |   |    |   |
| *                        | MASTER CODE | # | 72 | # |

Example: \* 987654 # 72 #

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

[illegible]



C/ Silici 13. Poligon Industrial Famadas  
08940 – Cornellà del Llobregat – Spain  
[golmar@golmar.es](mailto:golmar@golmar.es)  
Tel: 93 480 06 96  
[www.golmar-seguridad.es](http://www.golmar-seguridad.es)



Golmar reserves the right to make any changes without notice.