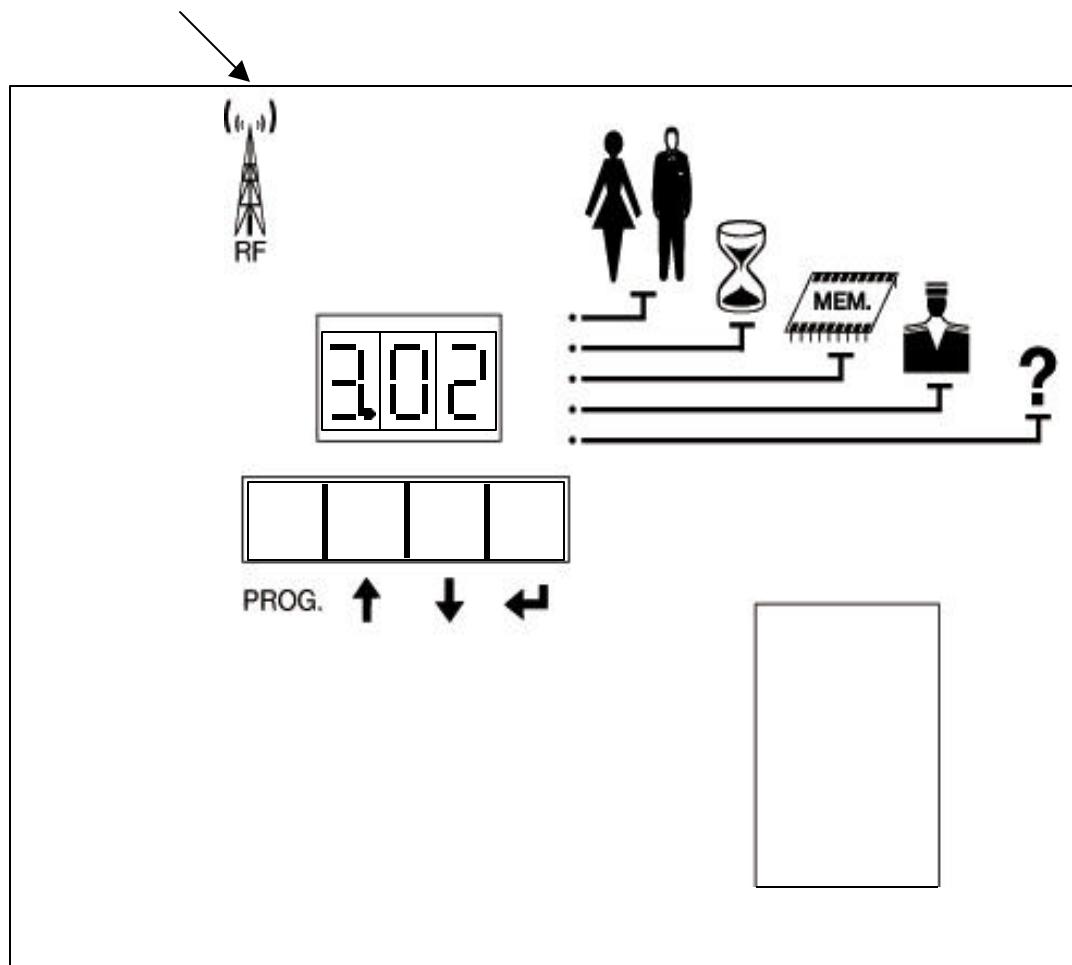




# UCA/3

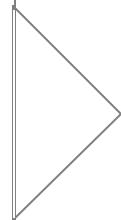
## 3-DOOR CONTROL UNIT WITH BUILT-IN RF RECEIVER

Wave  $\lambda/4$  17,3 cm receive  
antenna or antenna at  $50 \Omega$

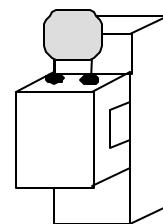


Wiring diagrams at the end of the user manual

### WIRING DIAGRAM AND INSTRUCTIONS



This device comes with a varistor.  
The varistor must be connected to the strike terminal  
(electromagnet...) operated by the device.  
If this product works with many strikes, each of them should  
have a varistor.  
The varistor controls the overload produced by the strike coil –  
back emf.



If you are using a « Shear Lock » electromagnetic lock, it is recommended to use a  
separate power supply than the one connected to the control unit!



## Technical specifications

Input voltage	12 V AC or DC
Outputs	3 relay outputs, N/O & N/C contact 8A/250V~
Users	800 badges (proximity and RF Transmitter)
Master badge	1 programmable proximity badge
Memory	Capability to transfer copy all data on a other control unit
RF receiver	Built-in RF receiver on the control unit
Inputs	2 Request-to-exit inputs
Présentation	3-digit 7 segments display 4 programming keys
Distance between the readers and the control unit	minimum 60 cm, maximum 50 m (recommended cable 7 x 0.6 mm <sup>2</sup> )

**Note:** Do not use a switching power supply with the UCA3 control unit

## Default values

Master Badge: Not programmed  
 Relay time delay: 1 second  
 Programming delay: 120 seconds (2 minutes)

## Push buttons

The request-to-exit button activates relay RL1 and RL2 independently (the relay can be programmed in momentary or latched time output).

## Programming keys

### PROG key (red button)

The PROG key allows you to enter and to exit from programming. Press twice on the button to exit from programming: Press once to exit from a menu and go back to the main menu, Press a second time to exit the main menu and go back to a normal mode.

### Nxt and Prv buttons (yellow buttons)

The Nxt and Prv keys are used to scroll in the main menu, to go back and forth to any menu.

### Fast scrolling with Nxt and Prv keys

Keep the button depressed to move faster in one of the menu, especially when you selecting a user number time delay.

### Enter button (green button)

Press the Enter key for selecting a menu and also to save the new data.  
 To delete a data press twice on the Enter button.



## Programming mode --- Main menu

Present a proximity badge in front of the control unit proximity reader.

----- If the master badge is not programmed in the control unit, present any proximity badge wait for the display to switch off and then press on the PROG button to enter in the programming mode.

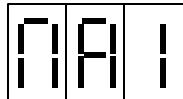
---

----- If the master badge is programmed

### Main menu

Present the master badge in front of the control unit reader, wait for the display to switch off and press on the PROG button (red button). The master badge activates relay 1

The display indicates



the relay is activated. Wait for the display to switch off. press on the PROG button to enter in the programming mode.

The first LED starts flashing.

**MENU 1** Add badges/select door – badge deletion.

**MENU 2** Set Door Release Time

**MENU 3** Data transferring.

**MENU 4** Set Master badge.

**MENU 5** Badge Identification.

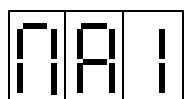
Press on Nxt or Prv buttons to select a menu. One LED flashes at a time.

**Note:** If LED 5 flashes (last LED), the user has selected Menu 5. Press on the Ent button to Enter in the Menu. The LED stops flashing.

## Deleting the master badge and reset to default values

1. Put the jumper on ST1.

The display shows



during 5 seconds. Then the display switches off during 5 seconds.

The master badge is deleted.

2. Remove the jumper from ST1.

OR



3. Keep the jumper on to delete all the badges.

4. The display indicates during the reset.

5. The display switches off at the end of the reset.

6. Remove the jumper from the ST1.



### Setting and deleting badges (Menu 1)

**Proximity Badges:** Proximity badges can be programmed on door 1 and 2.

**DOOR 1:** controlled by reader 1

**DOOR 2:** controlled by reader 2

Once the door is selected (door 1 and/or door 2) in Menu 1 all the badges entered in the control unit will have the same door configuration.

**Radio frequency:** The RF transmitter can be programmed on door 1 and 3.

**DOOR 1:** Controlled by channel 1 of the transmitter

**DOOR 3:** Controlled by channel 2 of the transmitter

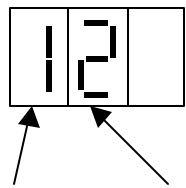
Select one relay (door) 1 or 3 and press on one of the buttons of the Transmitter to open door 1 or door 3 according to the channel set on each door.

### Select Door

Two choices are available:

#### 1st choice:

The display indicates



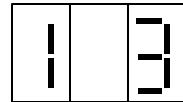
door 1 and 2 can be programmed with proximity badges.

Door 1      Door 2



**2nd choice:** To program the RF Transmitter press on Nxt to move to the next choice

The display indicates

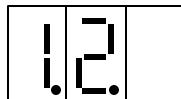


door 1 and 3 can be programmed with RF Transmitter.

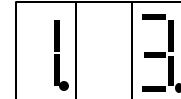
To get back to the previous display press PRV button.

Press Ent to select the type of badges to be programmed:

1<sup>st</sup> Choice: Press a second time on the Ent button to validate both doors



Proximity badges



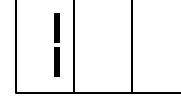
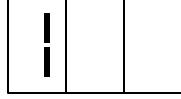
RF Transmitter

Press Nxt to a menu

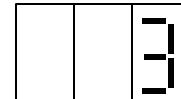
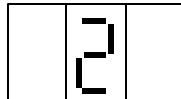
2<sup>nd</sup> Choice: Select one door and Press Ent to validate it

---

**Doors are displayed one at the time**



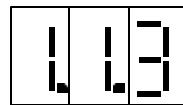
Press Nxt to select the next door or press Ent to validate the door. A dot appears next to the door number. Press Nxt to select the next door.



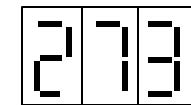
Press Ent to validate the second door or press Nxt to access the badge menu.

The user number is displayed.

A user number can either be occupied or free.



User number occupied  
on door 1 and 2



user number available

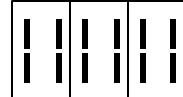
Select a user number by pressing on Nxt or Prv.



### Available user number

Present the badge in front the control unit proximity reader to program the badge on door 1 and /or door 2. To program the RF Transmitter, press on one of the remote button.

if the badge is already programmed; this message is displayed



during 2 seconds.

Present another badge.

Once the badge is saved, the user number s stays displayed during 2 seconds. According the door selected before programming the badges, a dot will appear next to the digit number of the user number. The next user number available is displayed.

### User number occupied

#### Deleting a badge

Select the user number and press twice on the Ent button.

#### Conservation du code d'Entée et modification de l'affectation des portes

Validez pour conserver le code d'Entée existant. Il est alors possible de reprendre la procédure d'affectation des portes en (A). L'affichage est celui d'un rang occupé.

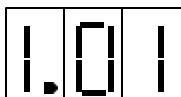
Cette affectation est temporaire et valable uniquement pour ce rang occupé.

L'affectation des portes avec laquelle a débuté la programmation est toujours utilisable pour la suite des enregistrements.

To exit from programming mode press on PROG button.



### Open Time Relay (Menu 2)

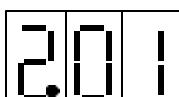


The first time relay indicates

a default value of 1 second for relay 1.

Press Ent button to change the open time for relay 1 and enter a time from 01 second to 99 seconds. Enter 00 for a latched output time. Then press Ent button to save the new time.

Press Nxt or Prv to select another door time relay and press Ent button to modify the time.



The second time relay indicates

a default value of 1 second for relay 2.



Press Ent button to change the open time for relay 2 and enter a time from 01 second to 99 seconds. Enter 00 for a latched output time. Then press Ent button to save the new time.

Press Nxt or Prv to select another door time relay and press Ent button to modify the time.

The third time relay indicates a default value of 1 second for relay 3.

Press Ent button to change the open time for relay 3 and enter a time from 01 second to 99 seconds. Enter 00 for a latched output time. Then press Ent button to save the new time.

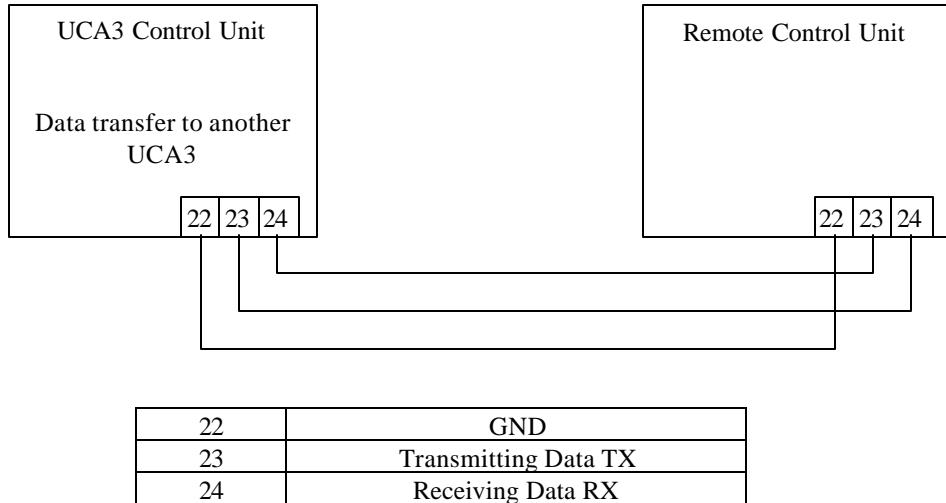
Press Nxt or Prv to select another door time relay and press Ent button to modify the time.

To exit from programming mode press on PROG button.

### Data Transfer (Menu 3)



#### Wiring Diagram



This message is displayed on the Control Unit, which will transmit the data.

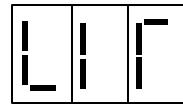
Validate by pressing on the Ent button or press PROG to exit from the programming mode.

#### Wiring connection between Control Unit

A verification is done between the control unit, which transfers the data.



The following message is displayed on the Control Unit which transmit the data

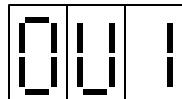


On the other Control unit the message



is displayed.

Press Ent button start the transmission.

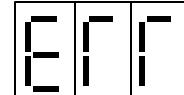


Once the transfer is completed this message

appears on the two Control Units during 5 seconds.

#### Connection ERROR between control units

If the two Control Unit are not connected properly an error message is displayed

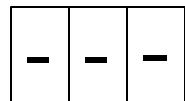


Verify the wiring and try again.



#### Setting the Master Badge (menu 4)

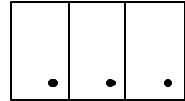
L'affichage indique si un badge maître est déjà programmé ou pas.



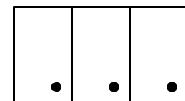
Master Badge not programmed

Present a badge in front of the proximity reader and press Ent to save the new Master Badge.

The display becomes



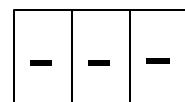
Master Badge Programmed



Master Badge programmed

Press twice Ent button to delete the Badge

the display changes to



Present a new Master Badge.

Press PROG button to go back to the main menu.

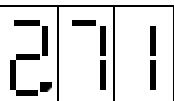


## Badge and RF Transmitter Identification (Menu 5)

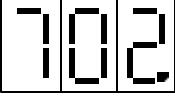


The display is off. The 5<sup>th</sup> LED is on.

Present the badge in front of the Control Unit proximity reader or press on one the button of the RF Transmitter.

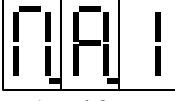
The display indicates  the badge is identified as 271 as the user number. This badge is Authorised on door 1 only the dot is next to digit 2

Door 1      Door 2      Door 3 - -----Door number

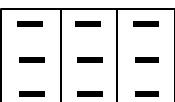
When the display indicates  an RF Transmitter is programmed on door 3 with a user number 702

It is not necessary to go out from the identification Menu for identifying more than one badge.

The user number is not displayed if the badge or RF Transmitter is not programmed in the control unit.

The following message is displayed  when the control unit identifies the master badge.

The master badge is authorised on door 1 and 2.

This message is displayed  when a badge or RF Transmitter is invalid.

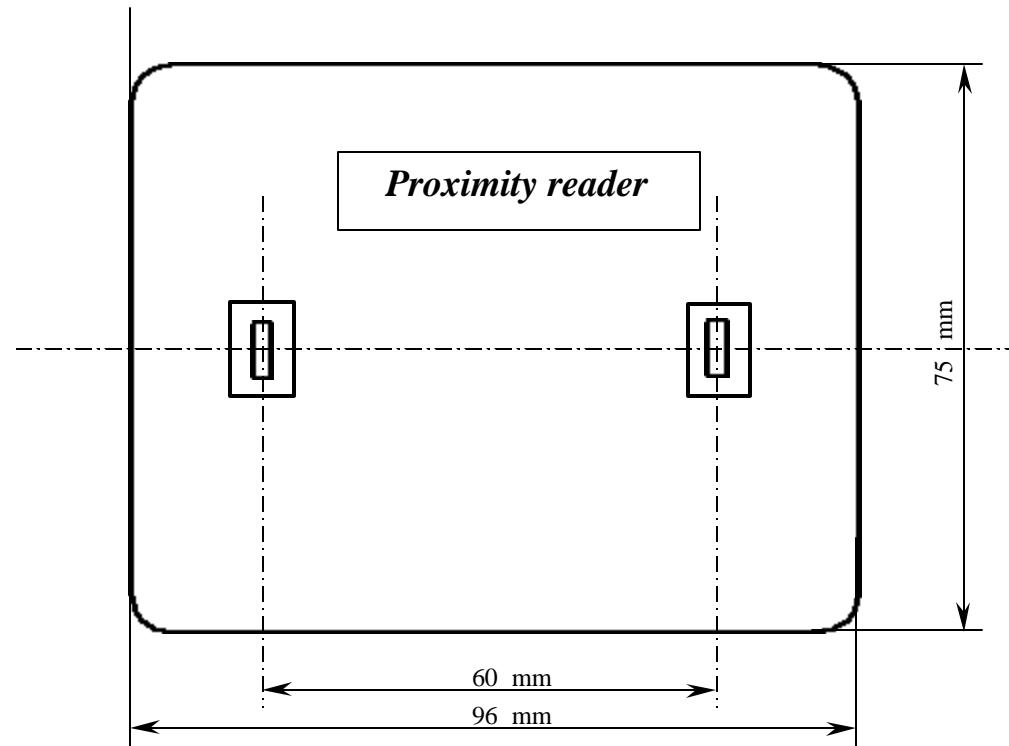
To exit from the identification Menu press the PROG button. Press a second time to exit from the programming mode.

## Antenna

It is possible to connect an antenna of  $50 \Omega$  to the terminal block 25 and 26.



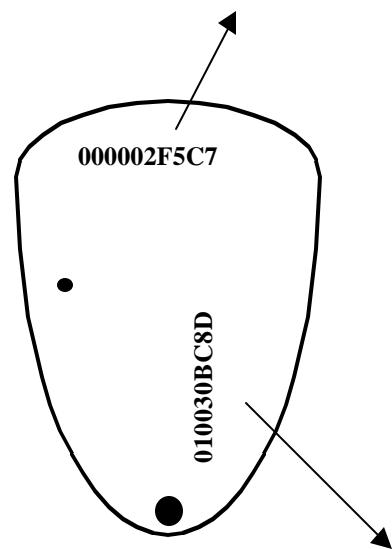
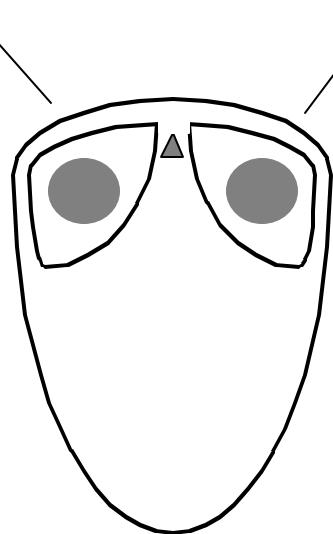
### Template



Channel 1

Channel 2

RF code number



Proximity Code  
Number



## Block terminal

1	Input voltage
2	Input voltage
3	Input voltage
4	Input voltage
5	Reader 2 green LED
6	Reader 2 common
7	PB2
8	Reader 2 data
9	N/C contact relay 1
10	Common relay 1
11	N/O contact relay 1
12	N/C contact relay 2
13	Common relay 2
14	N/O contact relay 2
15	Reader 1 green LED
16	Reader 1 common
17	PB 1
18	Reader 2 data
19	N/C contact relay 3
20	Common relay 3
21	N/O contact relay 3
22	GND
23	Data transmission
24	Data receiving
25	Receive Antenna 433 MHz(optional)
26	Receive Antenna 433 MHz(optional)
V1 V2 V3	Varistors

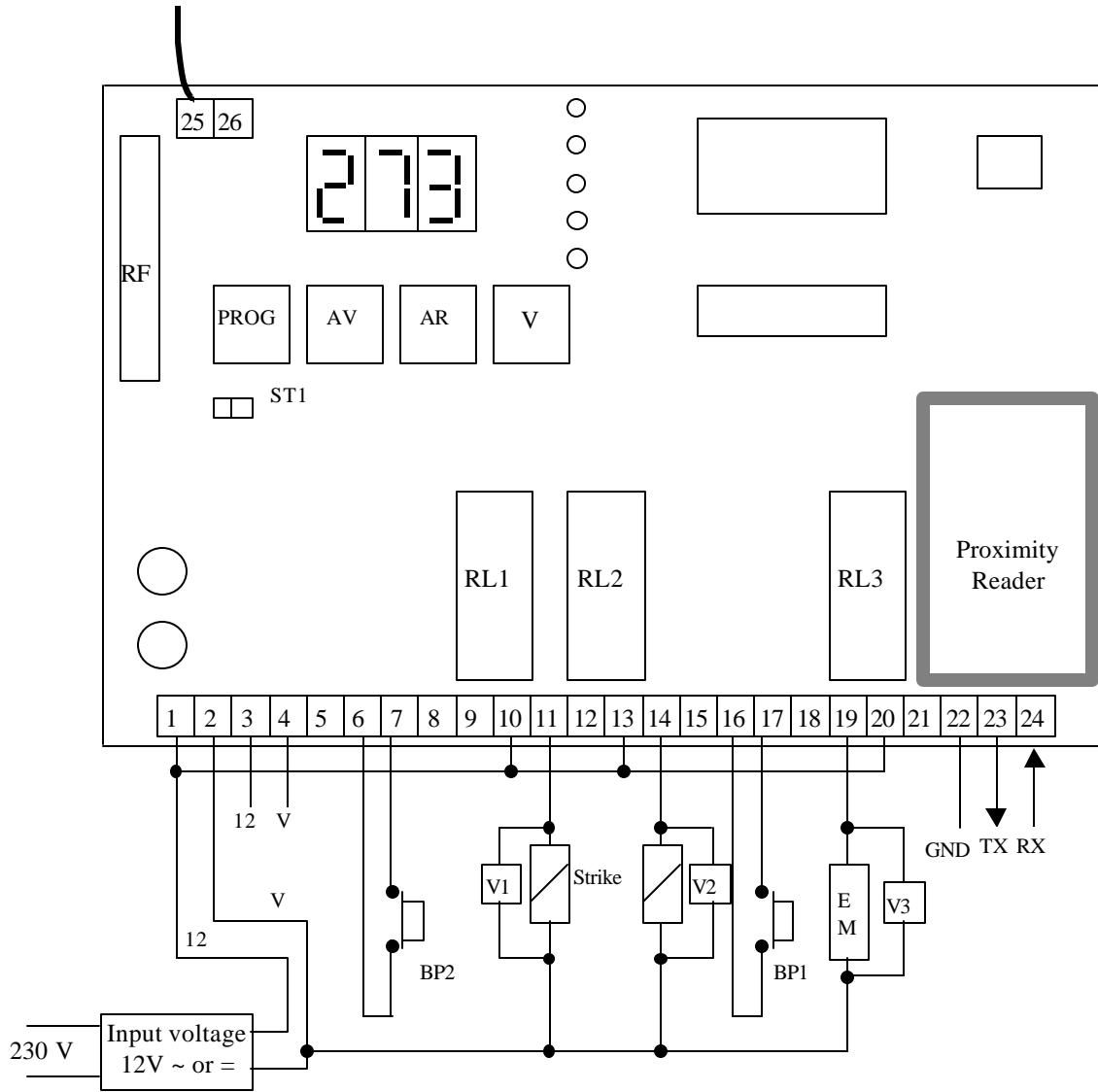
## Proximity reader

12	Input voltage
V	Input voltage
1	Data
4	GND
5	Red LED
3	Green LED
2	Not used



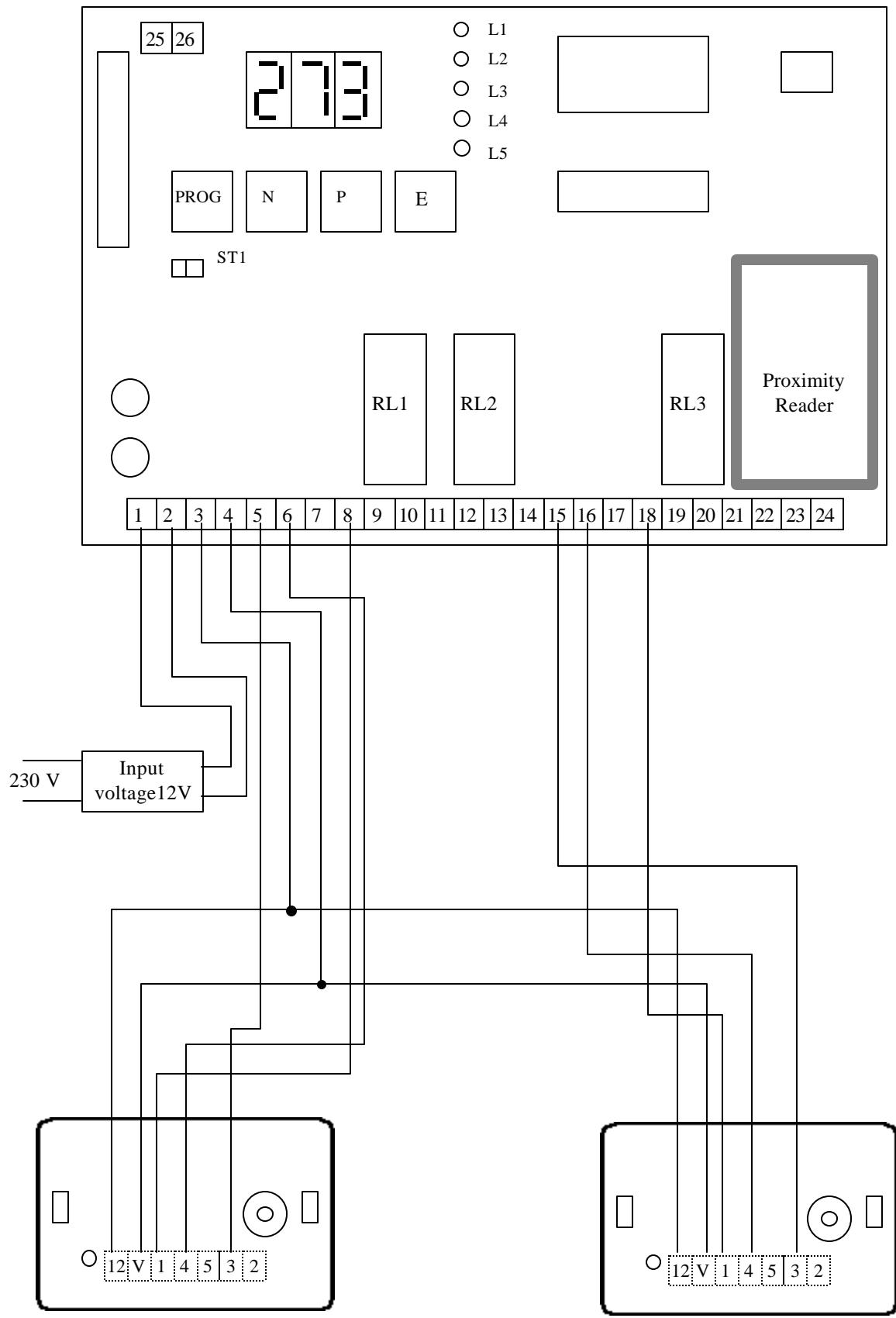
## Wiring Diagram

17.3 cm Receive Antenna  $\lambda/4$   
frequency or antenna of  $50\ \Omega$





### Wiring diagram with proximity readers

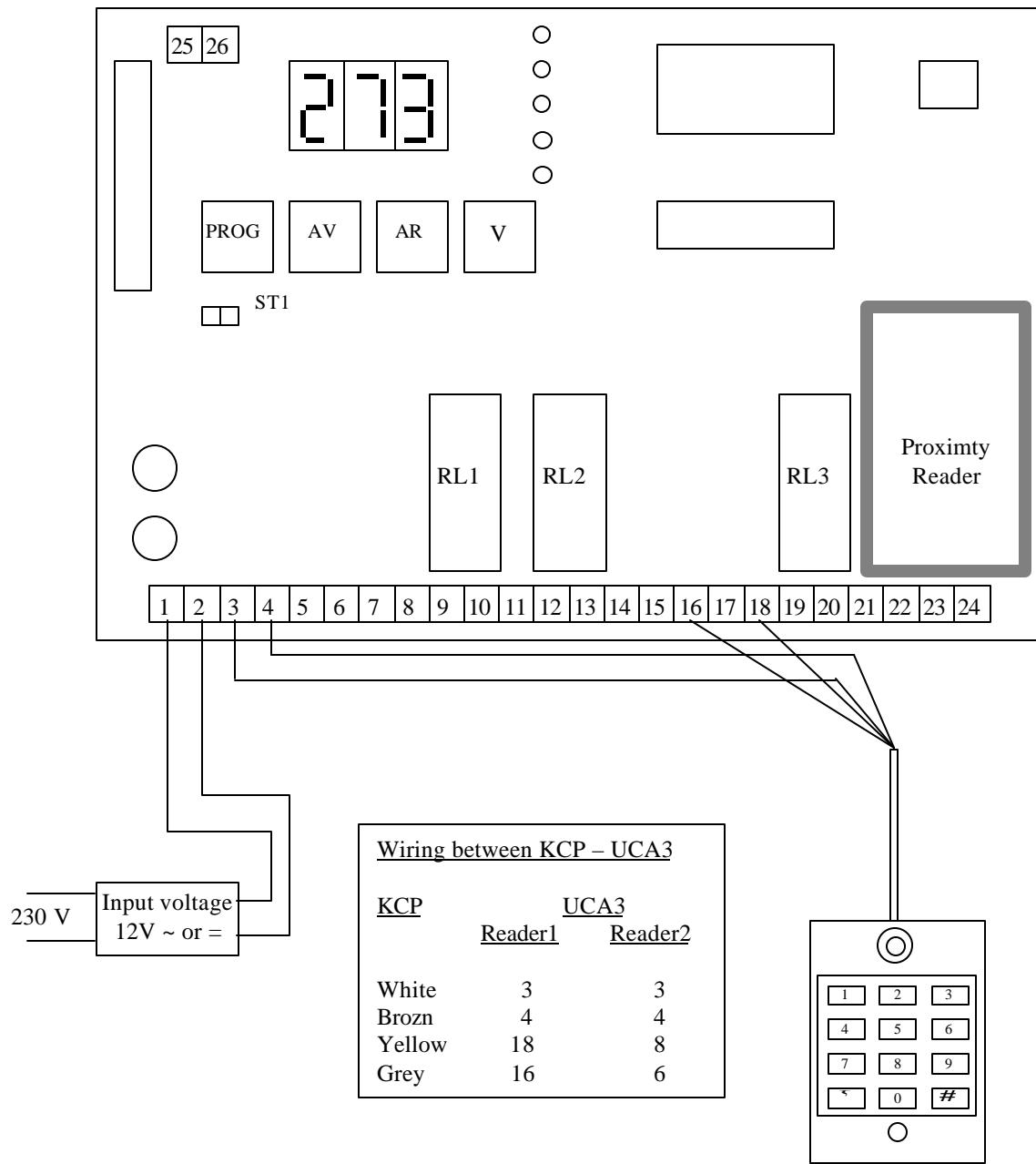


Proximity reader 2

Proximity reader 1

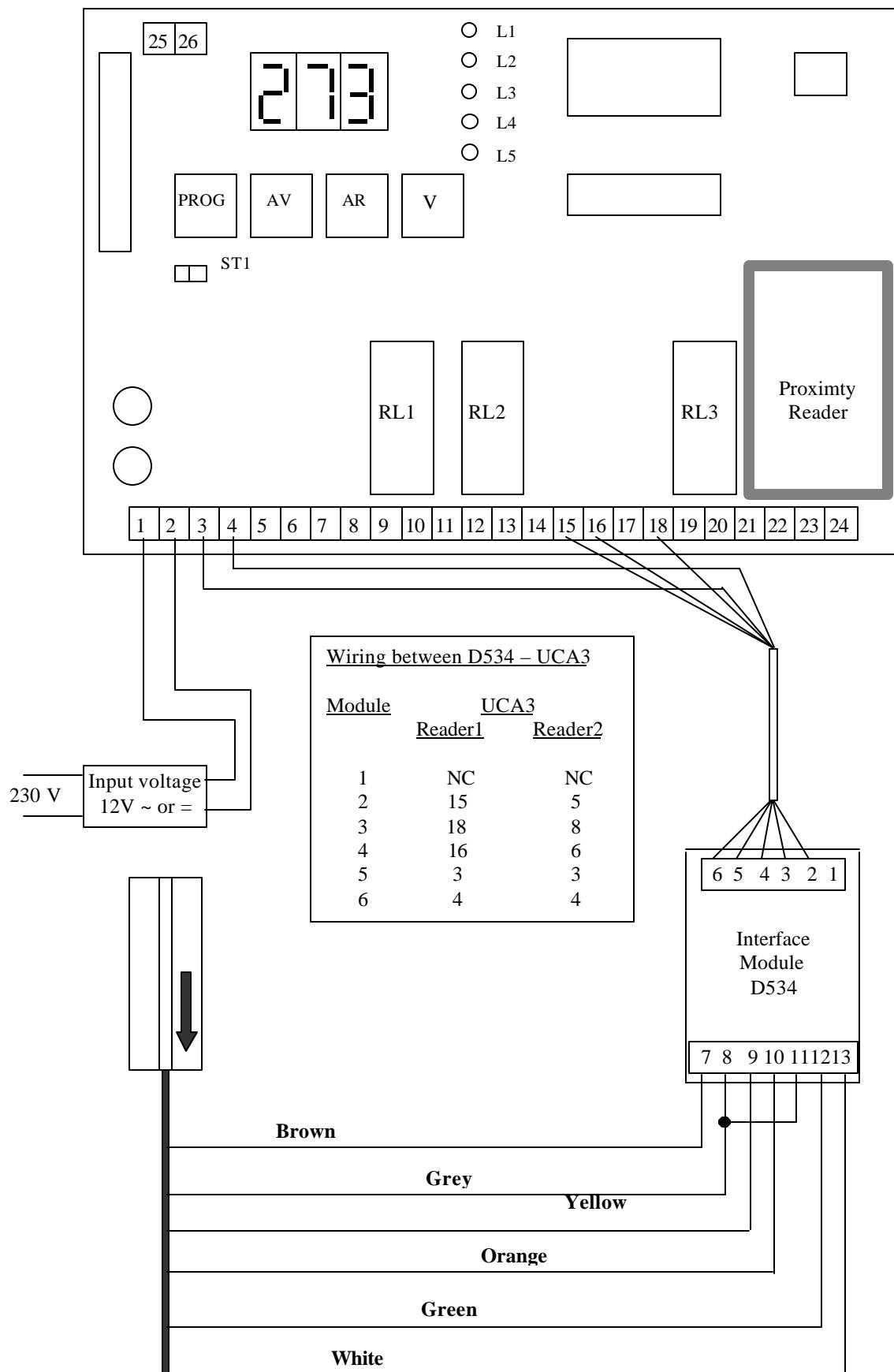


## Wiring diagram with a keypad





## Wiring diagram with a magnetic stripe reader





**FCC statement:**

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

**measures:**

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:**

Changes or modifications not expressly approved by C.D.V.I. could void the user's authority to operate the equipment.