



1. APPLICATIONS

Control panel for 1 motor at 230 or 380 Vac single-phase or three-phase with neutral, it has power stage with safety contactors, it is available with magnetic motor circuit breaker, finished industrial or domestic housings. It is compatible with WIRELESSBAND system.

Supports:

- DMT: Magnetic selector card /safety int. / opening.
- SRT BAND: WIRELESSBAND system receiver card for resistive / optical safety edge.
- SRT: Radio card receiver for 433 or 868 Mhz radio transmitters.

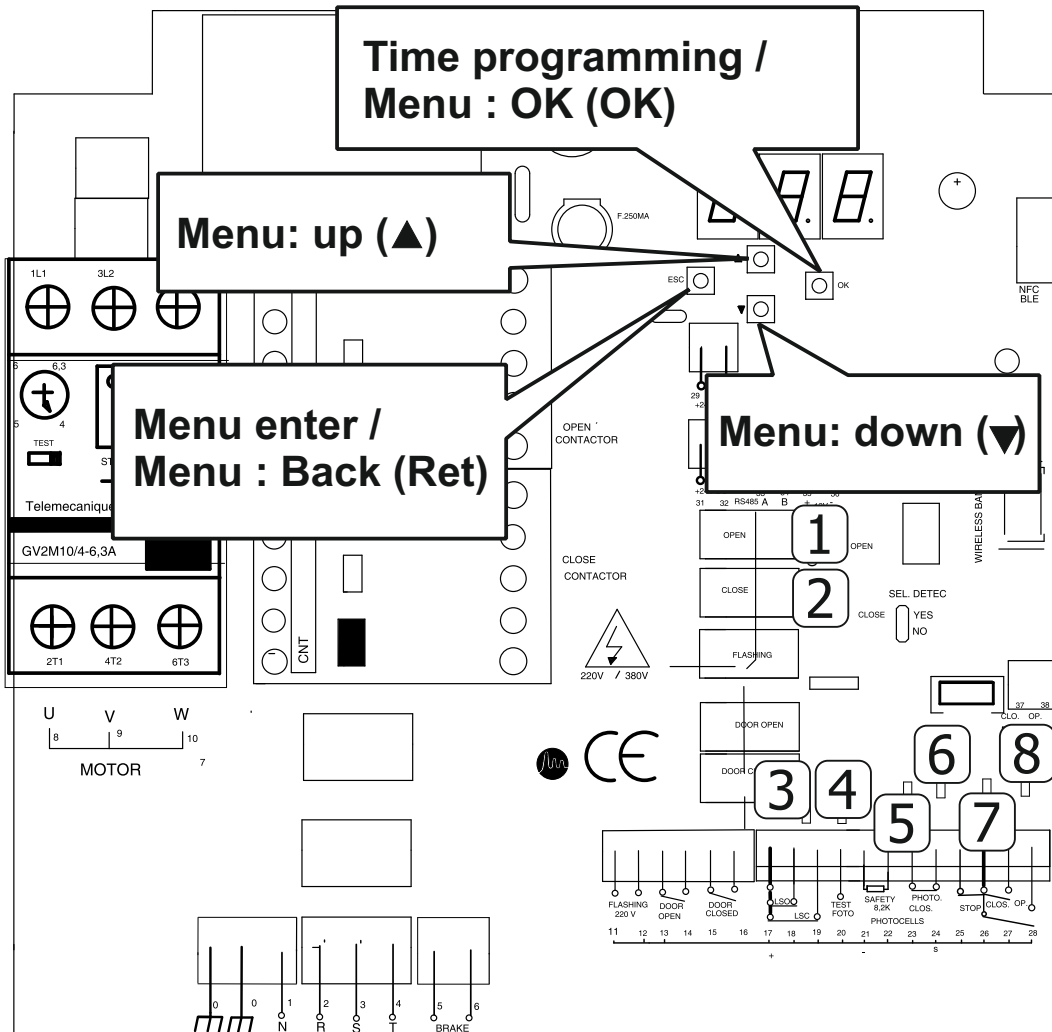
2. SETTING UP INSTRUCTIONS

- The control unit can be activated by Test CI, P.ABRIR(26-28) or via the radio card. Manoeuvres can be finalised via the following: limit switch activation, end of working time or by encoder .
- Pressing the STOP (25-26) button stops the door. It is necessary to push OPEN or CLOSE buttons to reactivate the operation.

3. CONNECTIONS

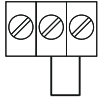
LEDS:

- | | |
|-----------------------|----------------------|
| 1. Open | 5. Close safety |
| 2. Close | 6. Stop |
| 3. Limit Switch Open | 7. Close push button |
| 4. Limit Switch Close | 8. Open push button |



3.1 POWER SUPPLY & MOTOR CONNECTIONS

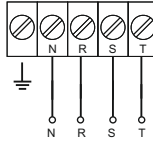
380V



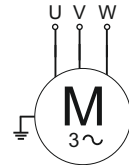
230V



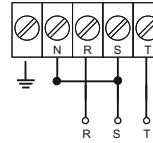
TRIPHASE
POWER SUPPLY



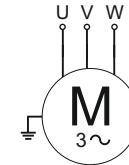
380V TRIPHASE
MOTOR



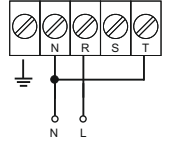
230V TRIPHASE
POWER SUPPLY
NO NEUTRAL



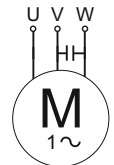
230V TRIPHASE
MOTOR



MONOPHASE
POWER SUPPLY



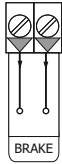
230V MONOPHASE
MOTOR



3.2 TERMINAL CONNECTIONS

BRAKE

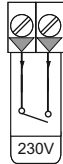
5 6



Power free (contact) or 230V, depending on model.

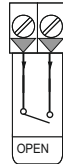
**FLASH
230V**

11 12



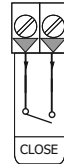
**OPENED
DOOR**

13 14



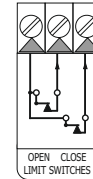
**CLOSED
DOOR**

15 16



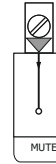
**LIMIT
SWITCHES**

17 18 19



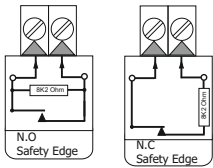
AUTOTEST

20



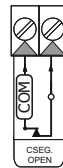
SAFETY EDGE

21 22 21 22



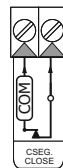
**OPEN
SAFETY**

21 22



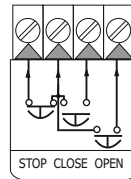
**CLOSE
SAFETY**

23 24



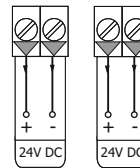
**PUSH
BUTTONS**

25 26 27 28



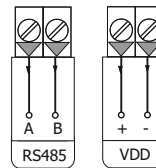
**ACCESSORIES
POWER SUPPLY**

29 30 31 32



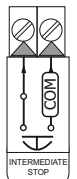
**DIGITAL
ENCODER**

33 34 35 36



**INTERMEDIATE
STOP**

37 38



3.3 LOOP DETECTOR

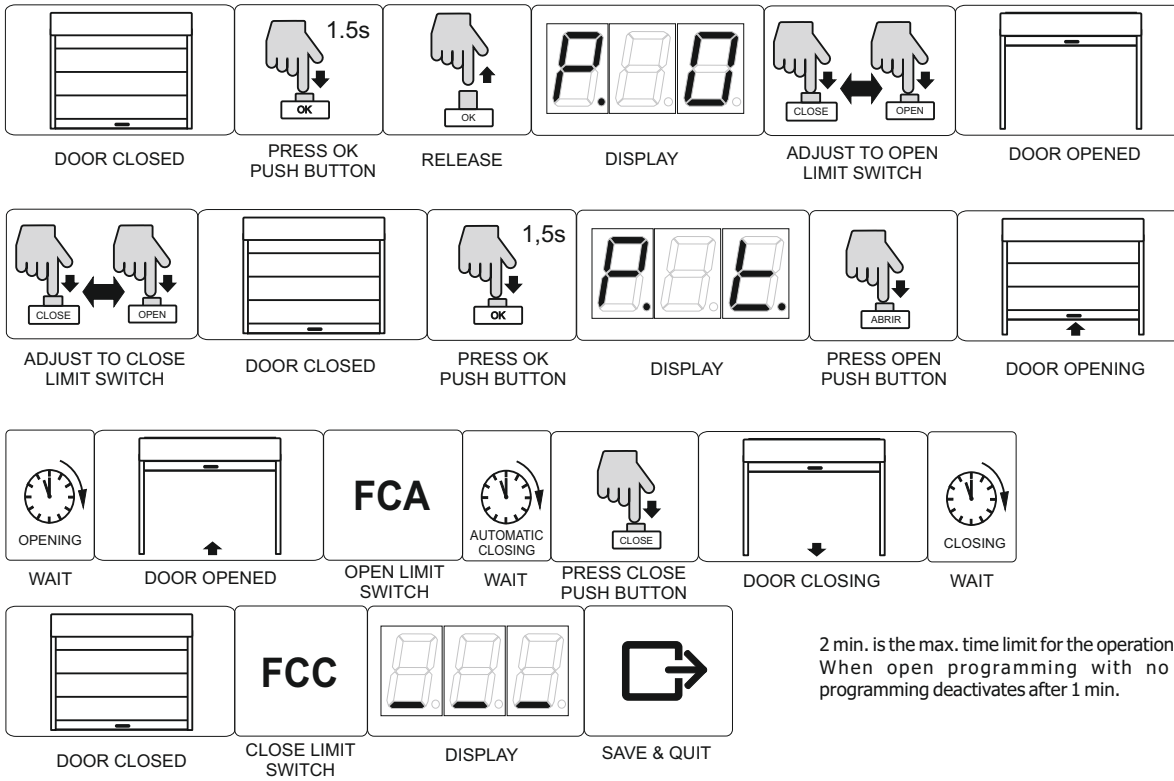


**WITHOUT
LOOP
DETECTOR**



**WITH
LOOP
DETECTOR**

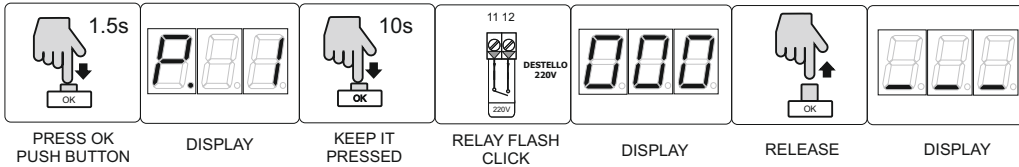
4. DIGITAL TIME PROGRAMMING



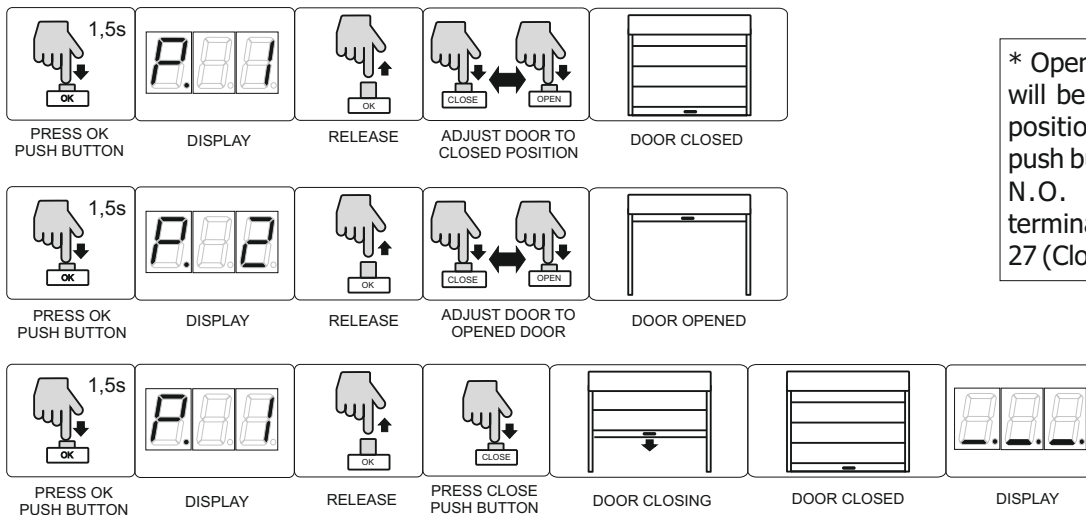
2 min. is the max. time limit for the operation.
When open programming with no manoeuvre, programming deactivates after 1 min.

5. ENCODER TIME PROGRAMMING (select encoder type e.1)

- Reset (always before programming process):



- Programming process:

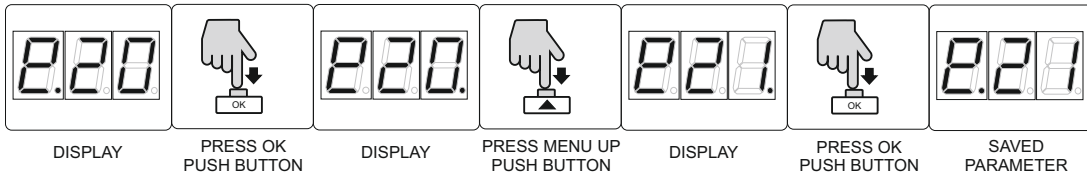


* Open and Close push buttons will be used to adjust the door position. If there aren't any push button connected, connect N.O. push buttons to the terminals 26-28 (Open) and 26-27 (Close).

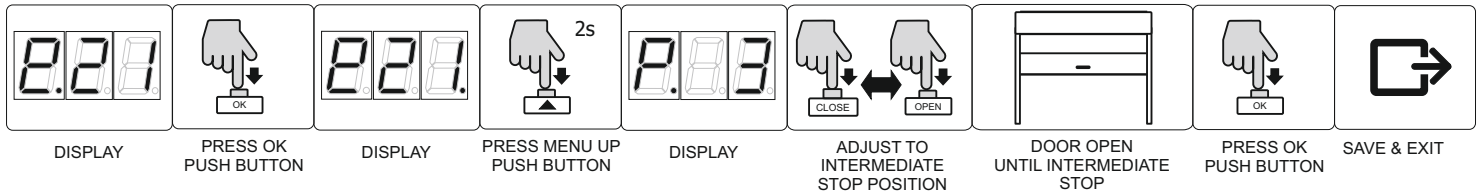
*** Important:** Once encoder position is memorized, carry out 3 complete manoeuvres to compensate possible door imbalance.

5.1 INTERMEDIATE STOP TIME PROGRAMMING (WITH ENCODER)

Set parameter e.2 = 1:

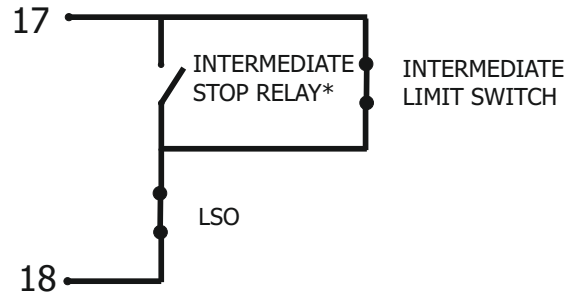
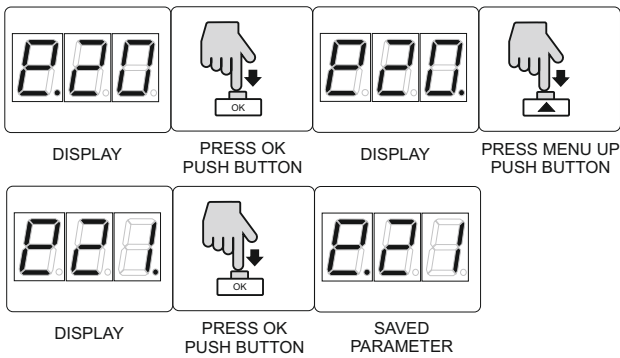


Back to parameter e.2 to begin the intermediate stop time programming:



5.2 INTERMEDIATE STOP CONNECTIONS (WITHOUT ENCODER)

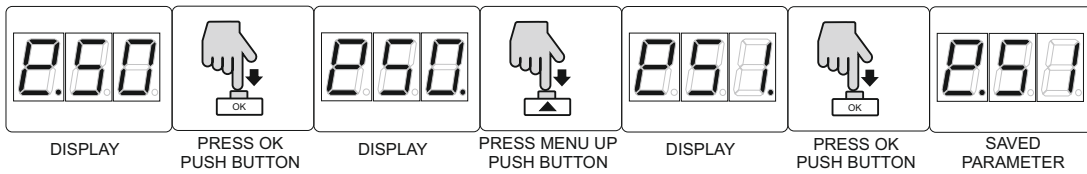
Set parameter e.2 = 1:



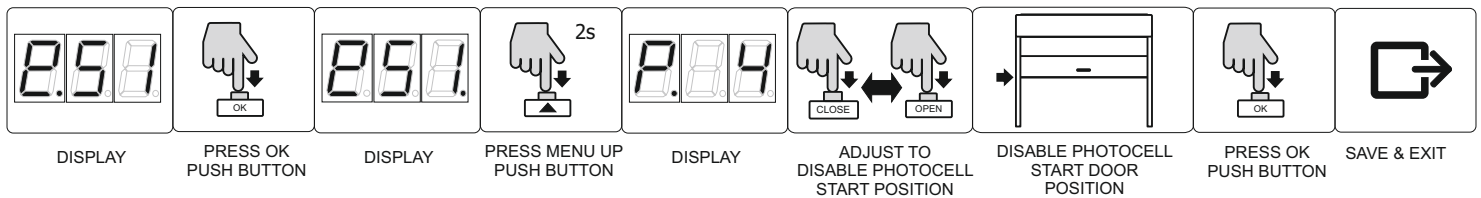
*Assigned with option e.3

5.3 DISABLE PHOTOCELL AT OPENING PROGRAMMING PROCESS (WITH ENCODER)

Set parameter e.5 = 1:

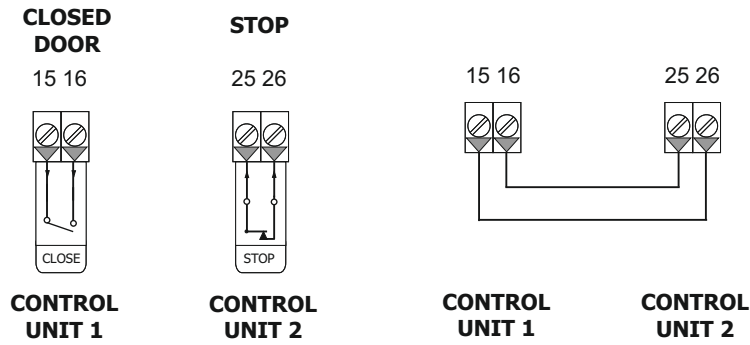


Back to parameter e.5 to begin the disable photocell start position programming:

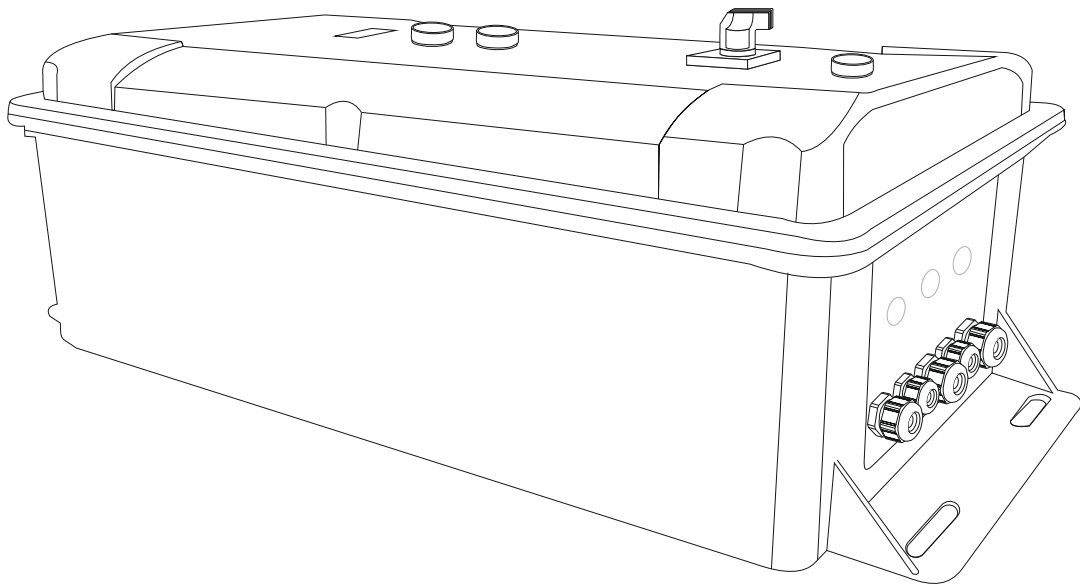


6. INTERLOCK FUNCTION

- Prevent two doors from being opened at the same time

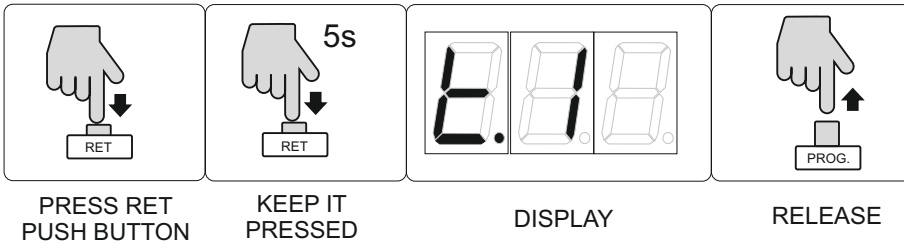


7. HOUSING



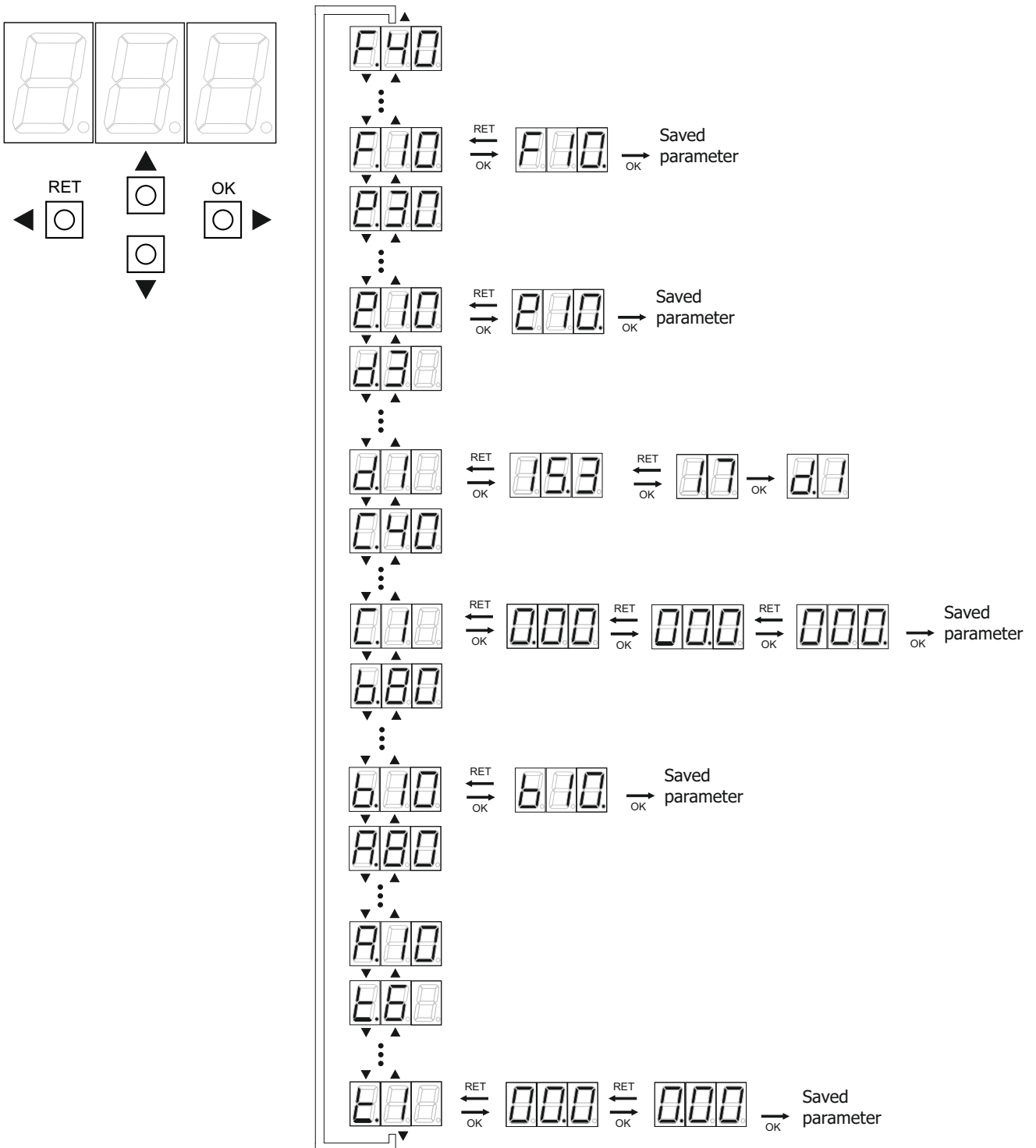
8. MENU

8.1 ENTER TO MENU MODE



8.2 MENU ORGANIZATION

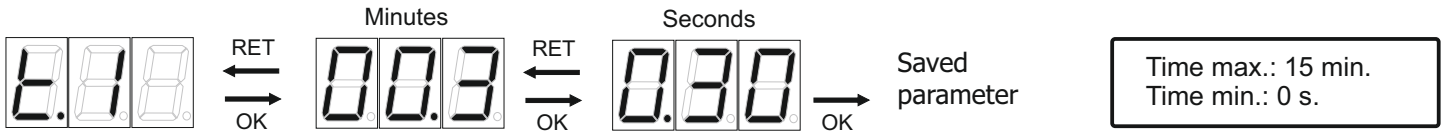
Navigation:



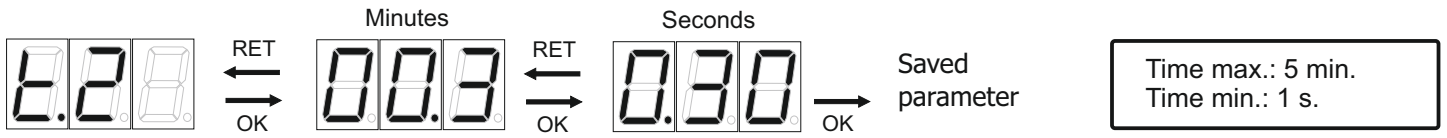
9. MENU PARAMETERS SET UP

9.1 TIMES (t._)

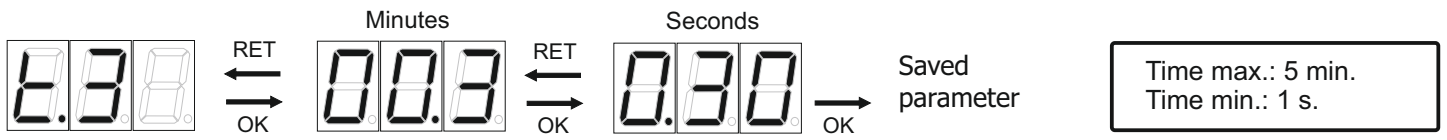
Automatic closing time:



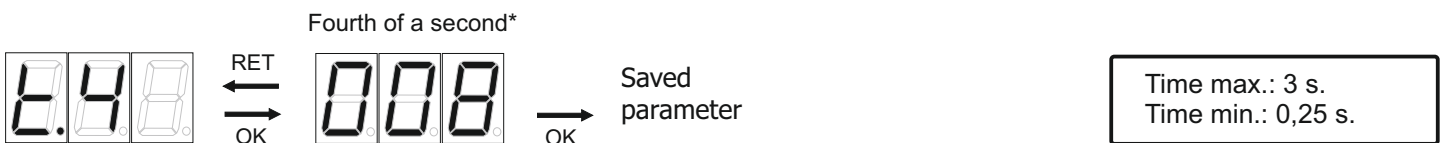
Opening time:



Closing time:



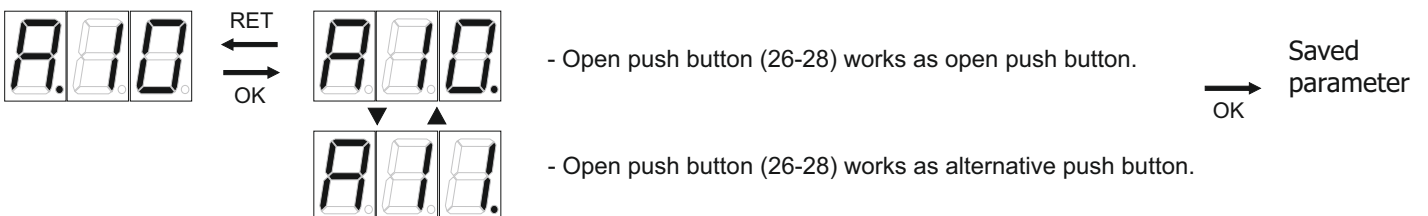
Invert time:



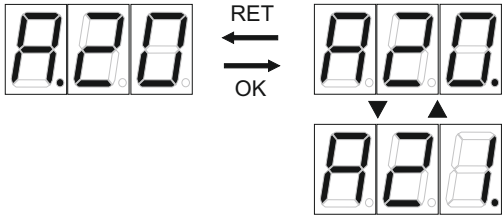
*Every unit represents 0.25 seconds.

9.2 FUNCTIONS (A._)

Open push button (26-28):



Disabling stop when opening:

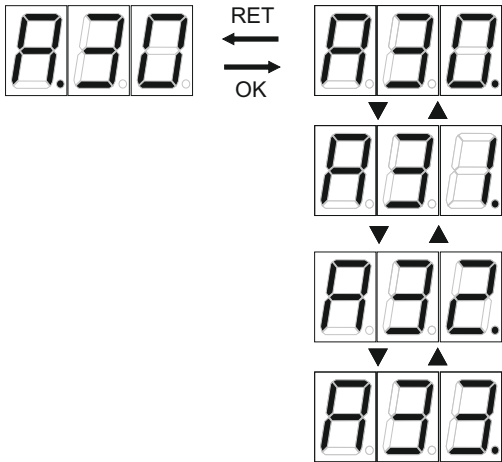


- No.

- Yes.

→ Saved parameter
OK

Dead man:



- Never.

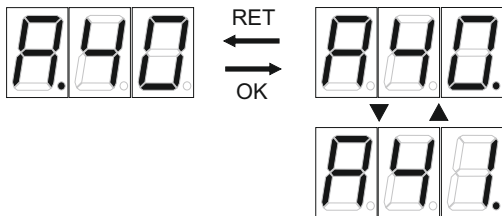
- When closing.

- When opening.

- Always.

→ Saved parameter
OK

Photocell for opening (21-22):

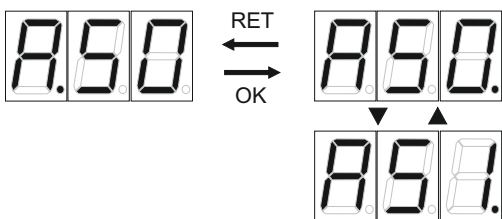


- Stop the manoeuvre.

- Stop and go the manoeuvre.

→ Saved parameter
OK

Resistive safety edge when opening:

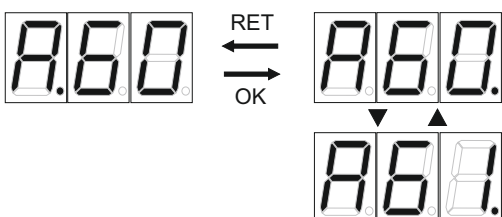


- Stop and invert when closing.

- Stop and invert 1 second when closing.

→ Saved parameter
OK

Resistive safety edge when opening:

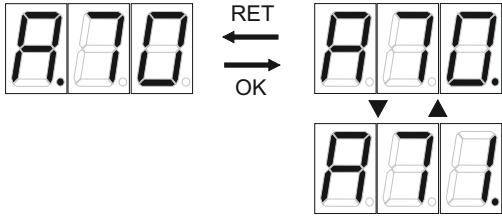


- Nothing.

- Stop and invert 1 second when opening.

→ Saved parameter
OK

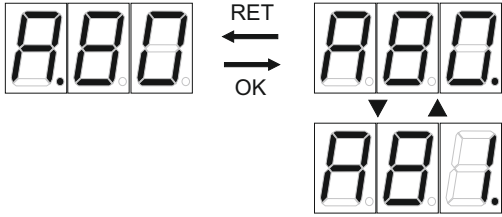
Photocell 1 / Safety Edge input (21-22):



- Works as a photocell when opening.
- Works as 8K2 safety edge.

→ Saved parameter
OK

Door contacts indicator:

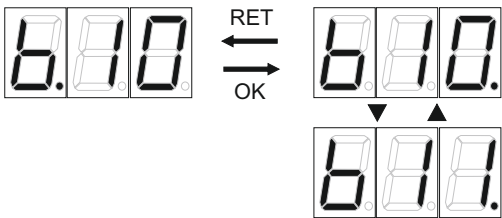


- Normally open (N.O.).
- Normally closed (N.C.).

→ Saved parameter
OK

9.3 FUNCTIONS (B._)

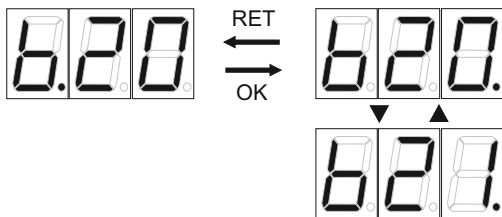
Photocell when door open (23-24):



- Restore automatic closing time deactivated.
- Restore automatic closing time.

→ Saved parameter
OK

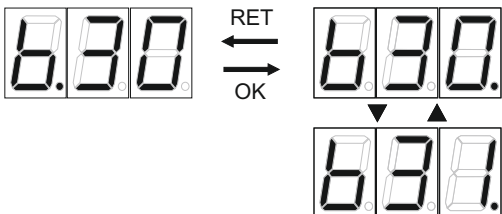
Open push button when door open (26-28):



- Restore automatic closing time deactivated.
- Restore automatic closing time.

→ Saved parameter
OK

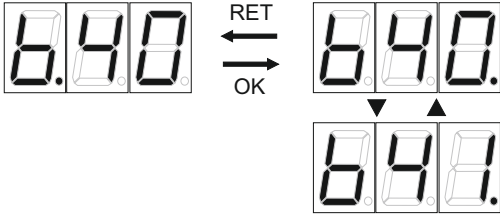
Activation resistive edge (8K2) / mechanical (NC) (29-30):



- Restore automatic closing time deactivated.
- Restore automatic closing time.

→ Saved parameter
OK

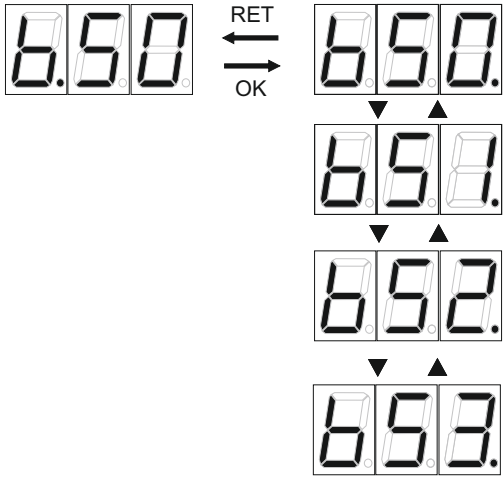
Activation safety edge input (29-30):



- Restore automatic closing time deactivated.
- Restore automatic closing time.

→ OK Saved parameter

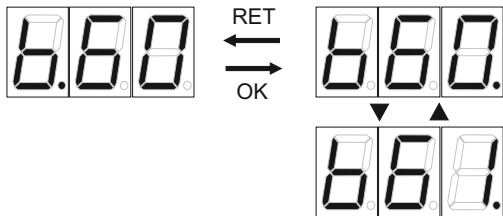
Closing for photocell (31-32):



- No.
- Immediate.
- 3 seconds delay.
- Reserved.

→ OK Saved parameter

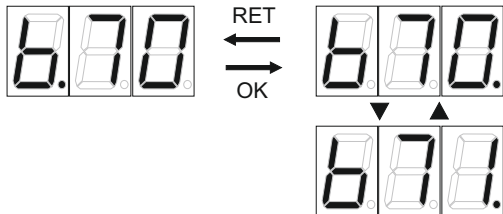
Photocell inhibition when closing:



- No.
- Yes.

→ OK Saved parameter

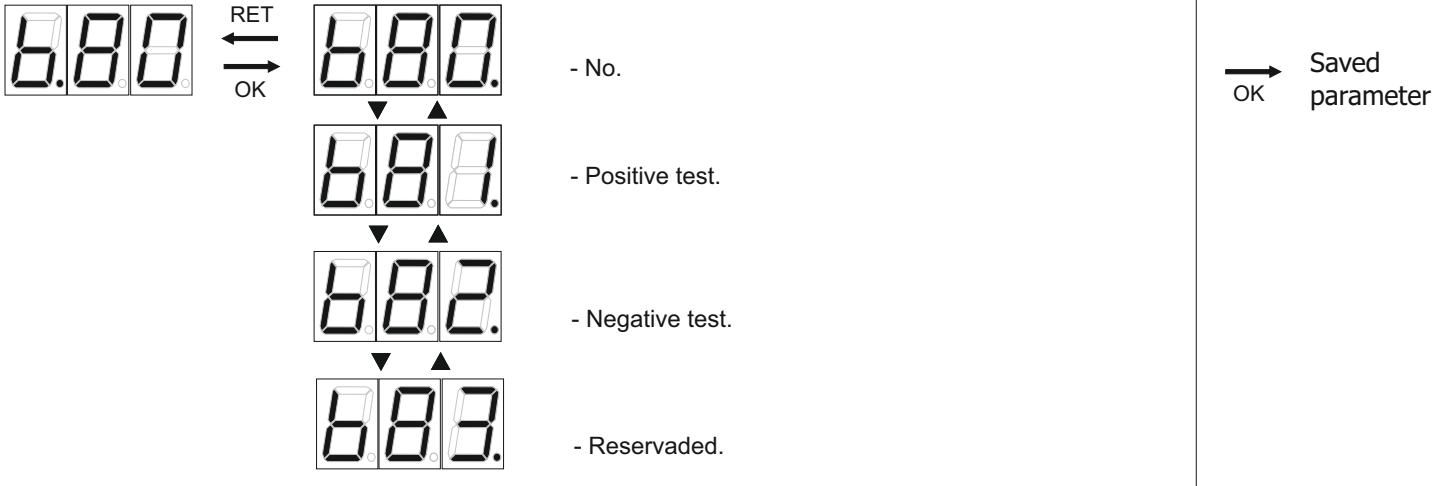
Photocell inhibition when opening:



- No.
- Yes.

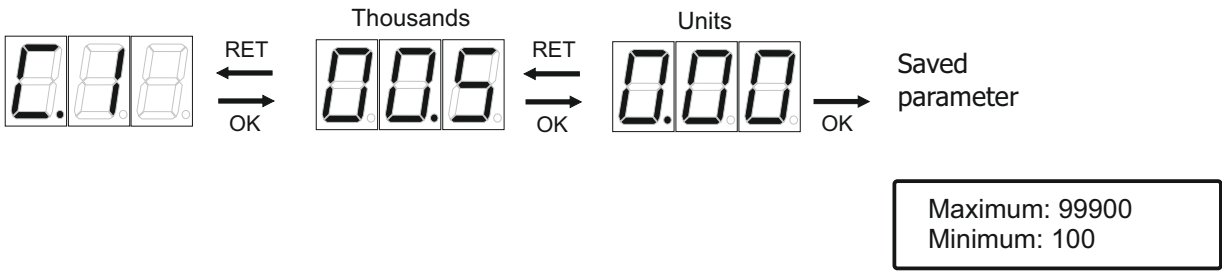
→ OK Saved parameter

Photocell test:

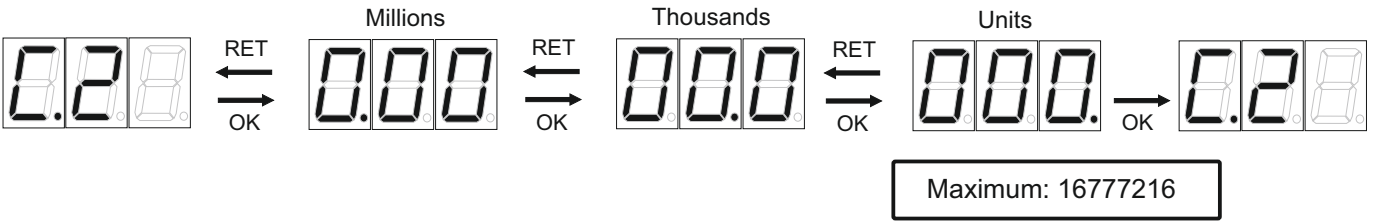


9.4 MAINTENANCE (C._)

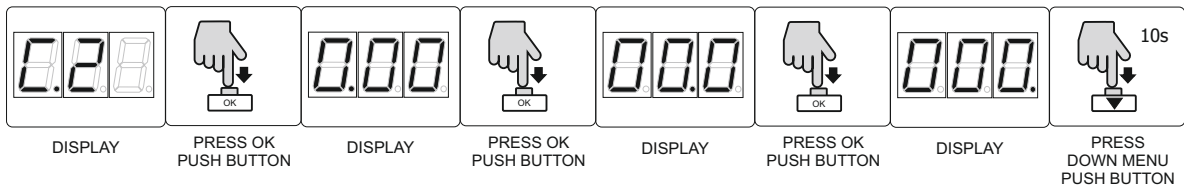
Cycle limit for maintenance:



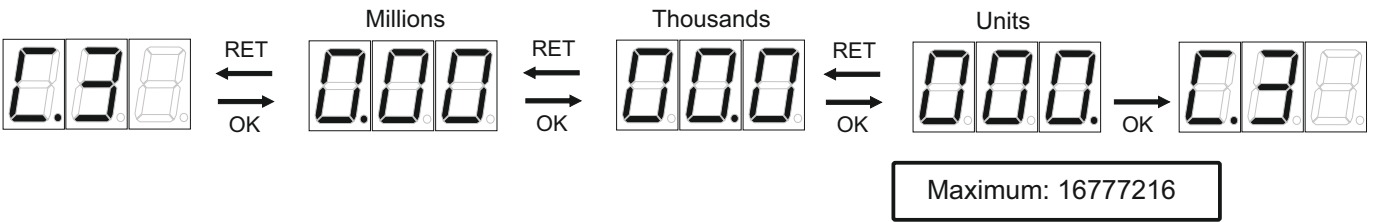
Cycle counter trip:



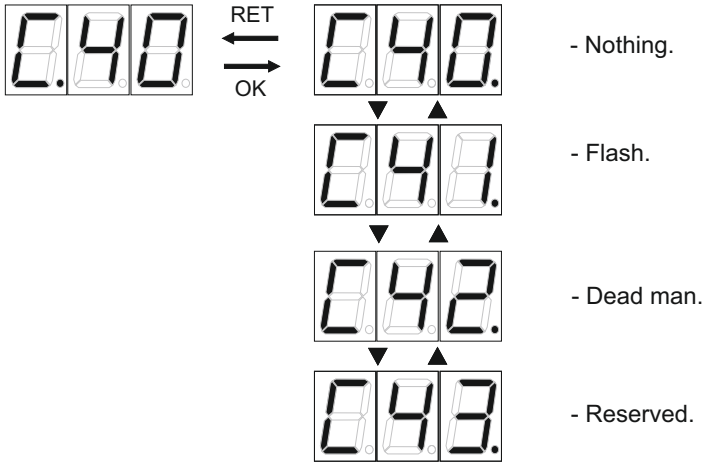
Reset counter:



Total cycle counter:



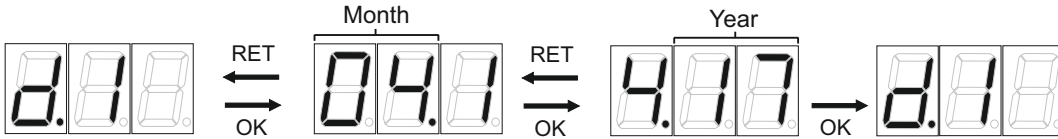
Maintenance warning:



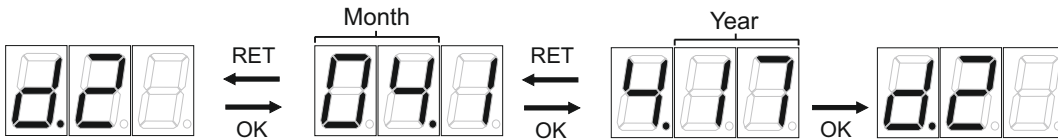
→ OK Parámetro guardado

9.5 CONTROL UNIT INFORMATION (d._)

Production date:



Last maintenance date:

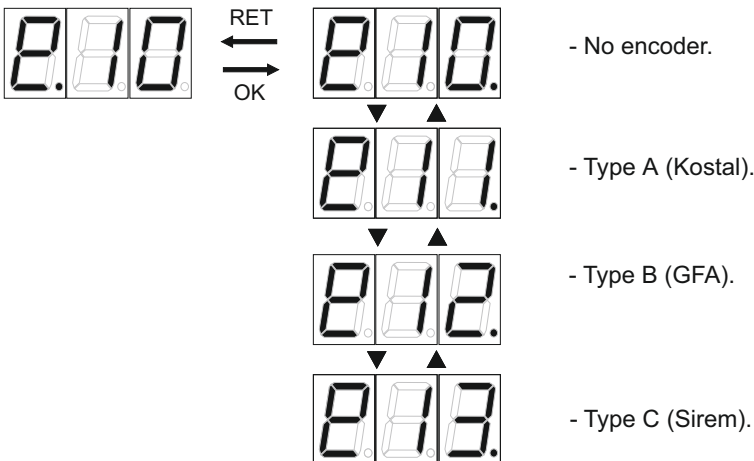


Software version:



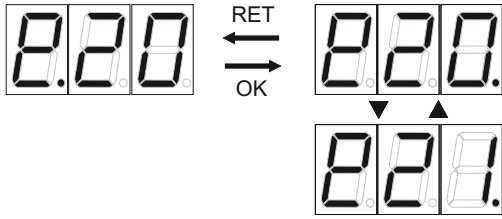
9.6 ENCODER (e._)

Absolute encode type:



→ OK Saved parameter

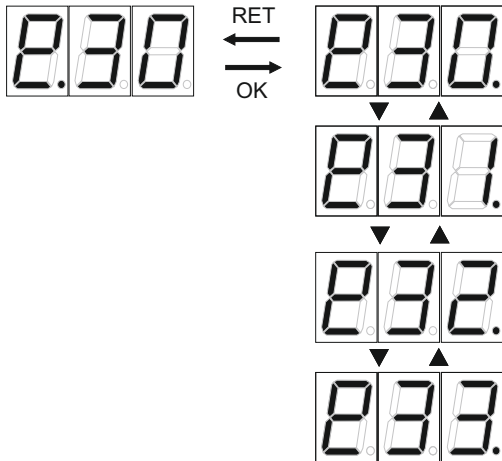
Intermediate stop setup:



- No.
- Yes, memorize.

→ OK Saved parameter

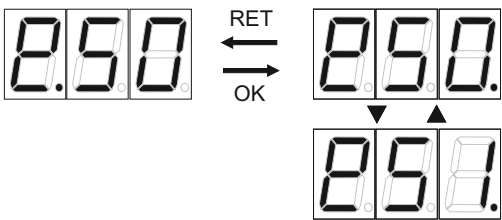
Intermediate stop option:



- No.
- Relay 3.
- Relay 4.
- Reserved.

→ OK Saved parameter

Disable photocell at opening:



- No.
- Yes.

→ OK Saved parameter

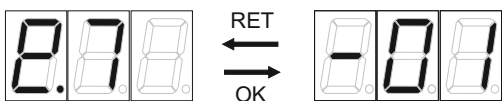
Limit Switch Close (LSC) fine adjustment:



- Fine adjustment from -7 to 7. **Negative** value to adjust before and **positive** value to adjust after the programmed LSC.

→ OK Saved parameter

Limit Switch Open (LSO) fine adjustment:



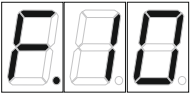
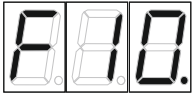
- Fine adjustment from -7 to 7. **Negative** value to adjust before and **positive** value to adjust after the programmed LSO.

→ OK Saved parameter

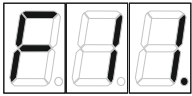
9.7 FLASH (F._)

Flash when door opening:

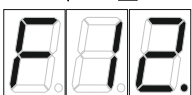
RET
←
OK →

  - No.

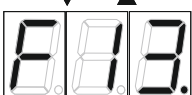
↓ ↑

 - Yes.

↓ ↑

 - Turn signal.


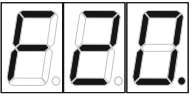
↓ ↑

 - Reserved.

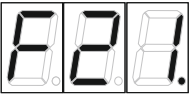
→ OK Saved parameter

Flash door opened:


RET
←
OK →

  - No.


↓ ↑

 - Yes.

↓ ↑

 - Turn signal.


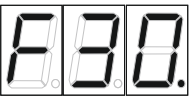
↓ ↑

 - Reserved.

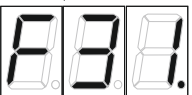
→ OK Saved parameter

Flash door closing:


RET
←
OK →

  - No.


↓ ↑

 - Yes.

↓ ↑

 - Turn signal.

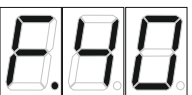
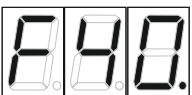
↓ ↑

 - Reserved.

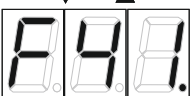
→ OK Saved parameter

Pre-flashing option:

RET
←
OK →

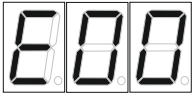
  - No.

↓ ↑

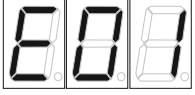
 - Yes.

→ OK Saved parameter

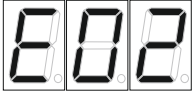
9.8 ERRORS (E..)



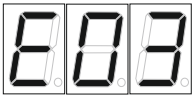
- Limit switches common error.



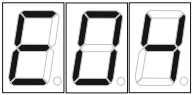
- Photocell open / edge error (21-22).



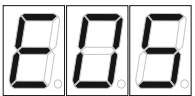
- Photocell close error (23-24).



- Loop detector error.



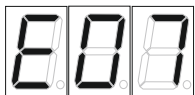
- Stop (25-26) error.



- Cover stop push button error.



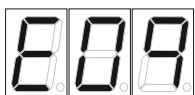
- Safety edge activated (via radio) error.



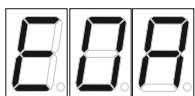
- Open push button error (26-28).



- Close push button (26-27).



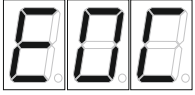
- Encoder error (no answer).



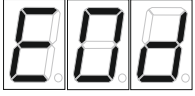
- Phase shift error (encoder).



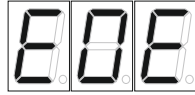
- Limit position NOT saved.
*for digital time programming please see point 5



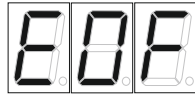
- Communication error (encoder).



- Door maintenance notice. Reset with parameter C2.



- Photocell / edge test error.



- Encoder error (magnet not detected).

TECHNICAL SPECIFICATIONS

Power Supply	380/220V AC +/- 10%
Drive	220V / 380V 3HP
Max Drive Power	1.5HP / 3HP
Power Supply for accessories	12V DC 250mA / 24V DC 250mA
Garage door output type	Power free contact
Flashing light output	220V 10A
Working Time	From 8 sec to 80 sec
Automatic closing time	From 5 sec to 120 sec
Radio Card	Optional
Loop Detector Card	Optional
Photocell inhibitor Card	Optional
NFC card	Optional
Working Temperature	-20 to 50°

CE DECLARATION OF CONFORMITY
For more information visit the website www.aerf.eu

WARNING!!

- Equipment installation and start-up, can only be executed by qualified personal.

