



1. APLICACIONES

Equipment designed for industrial applications like speed doors, industrial sectional doors or heavy sliding doors.

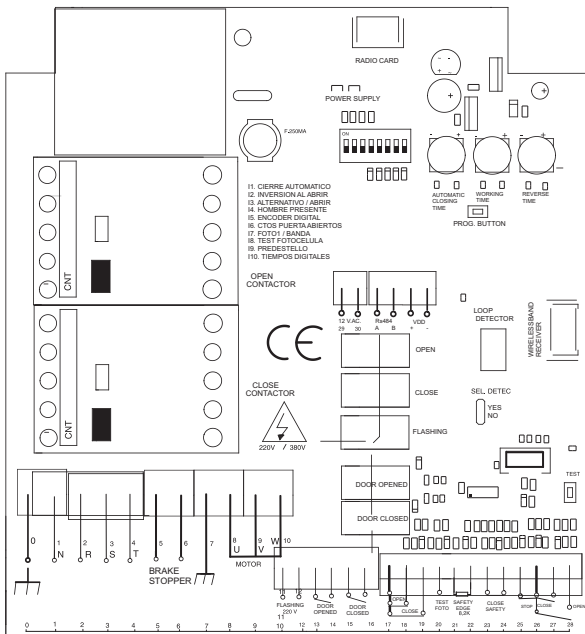
Supports:

- 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. OPERATING INSTRUCTIONS

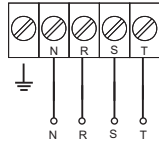
- The control unit can be activated by Test CI, P.ABRIR(26-28) or via the radio card. Manoeuvres can be finalised via the following: limit switch activation, end of working time or by encoder .
- With option 3 ON, if the OPEN button or transmitter is pushed while the door is opening, it stops and does not close the door.
- Pressing the STOP button stops the door. It is necessary to push OPEN or CLOSE buttons to reactivate the operation.
- With option 3 ON, If the OPEN button or transmitter is pushed while the door is closing, then the door will open.
- The garage light contact is activated when the door is opening & deactivated after 2 seconds.

3. CONNECTIONS

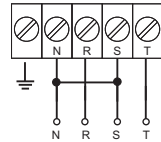


3.1 POWER SUPPLY & MOTOR CONNECTIONS

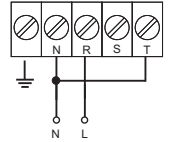
TRIPHASE POWER SUPPLY



220V TRIPHASE POWER SUPPLY



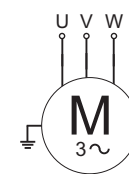
MONOPHASE POWER SUPPLY



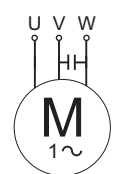
380V TRIPHASE MOTOR



220V TRIPHASE MOTOR



220V MONOPHASE MOTOR



3.2 LOOP DETECTOR

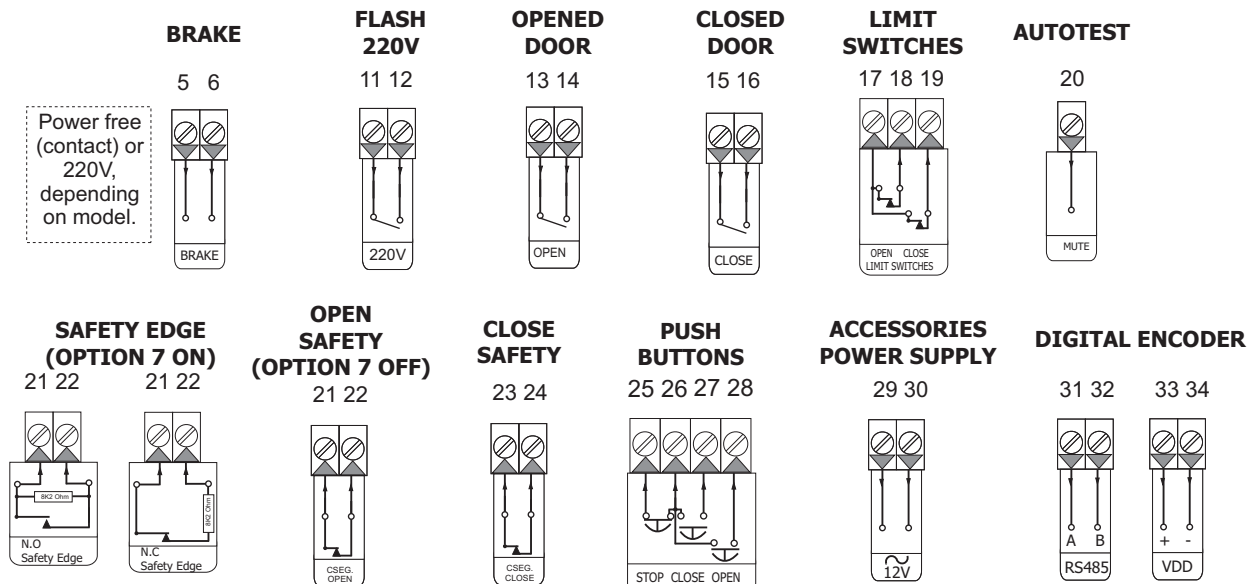


WITHOUT LOOP DETECTOR



















WITH LOOP DETECTOR

3.3 TERMINAL CONNECTIONS



4. OPTIONS

AUTOMATIC CLOSING  Door closes automatically after waiting the a.c.time.  Door does not close automatically.	DOOR CONTACTS  Normally open door contacts  Normally close door contacts
RADIO OPEN/ALTERNATIVE  Radio card / OPEN button works as alternative button.  Radio card / OPEN button works as a opener.	PHOTOCELL TEST  Enabled.  Disabled.
DEAD MAN  Enabled.  Disabled.	PRE-FLASHING  Flashing output ENABLED before starting, open and close  Flashing output DISABLED before starting, open and close
DIGITAL ENCODER  Enabled.  Disabled.	PROGRAMMATION TYPE  Digital time programming.  Manoeuvre time with potentiometers.

If OPTION 3 & 4 ON, control unit makes a normal opening and dead man on closing
 If OPTION 3 ON & OPTION 4 OFF, control unit makes dead man on opening and closing

5. TIME REGULATIONS

AUTOMATIC CLOSING TIME (GREEN)



Regulates the waiting time before the automatic close. Turn LEFT to decrease and RIGHT to increase
 Minimum - 6 to 8sec
 Maximum - 110 secs

WORKING TIME (RED)



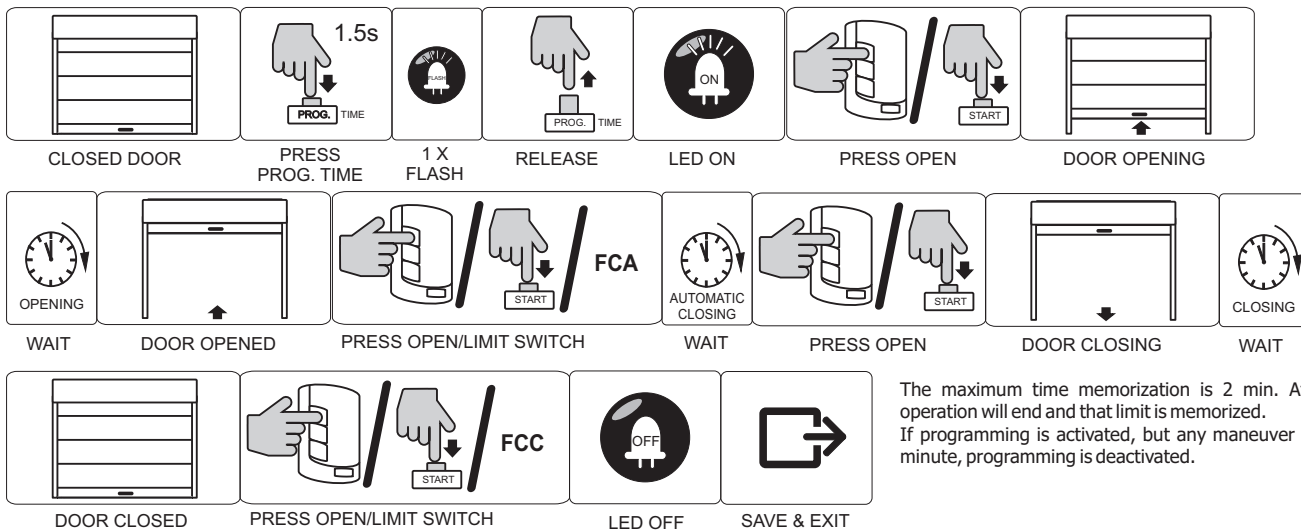
Regulates the opening and closing time. Turn LEFT to decrease and RIGHT to increase.
 Minimum - 6 to 8sec
 Maximum - 85 secs

INVERSION TIME (WHITE)



Regulates the inversion time. Turn LEFT to decrease and RIGHT to increase.
 Minimum - 0.5 seg
 Maximum - 7.5 seg

6. DIGITAL TIME PROGRAMMING for working and automatic closing.



The maximum time memorization is 2 min. After which, the operation will end and that limit is memorized.
 If programming is activated, but any manoeuvre is made after 1 minute, programming is deactivated.

8. DOOR OPEN RELAY & DOOR CLOSED RELAY

Door open relay is activated when the control unit reaches the position adjusted by the encoder or when the open limit switch is activated.
 Door closed relay is activated when the control unit reaches the position adjusted by the encoder or when the close limit switch is activated.
 The relays have normally open output contacts, when it reaches the active position the contact closes. If desired the reverse action must activate I6.

9. ENCODER RS 485 (KOSTAL)

With option 5 ON, the control unit can work with RS485 digital encoder.
 Follow the next steps for encoder programming:

Initial conditions:

- Door at rest.
- You must connect a push button for open on terminals 26-28 and a push button for close on terminals 26-27.
- OPTION 5 ON

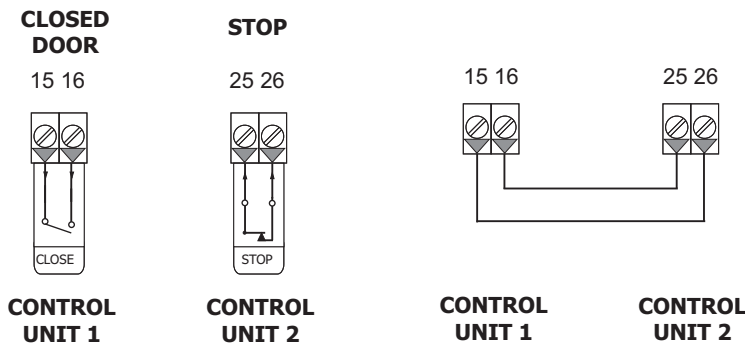
Open and close push buttons, will be used to adjust the door closed and open positions, during the programming process.

Process:

- Press PROG button during 1,5 sec. PROG led remains ON.
- With CLOSE push button, adjust the door to close position.
- After adjusting push PROG button during 1,5 sec. PROG led will flash.
- With OPEN push button, adjust the door to open position. (DEAD MAN)
- After adjusting push PROG. during 1,5 sec.
- Flashing light output will be activated.
- Press CLOSE push button.
- Control unit will activate the motor to door closed position (adjusted previously) and will exit from programming process. PROG led OFF.

10. SLUICE FUNCTION

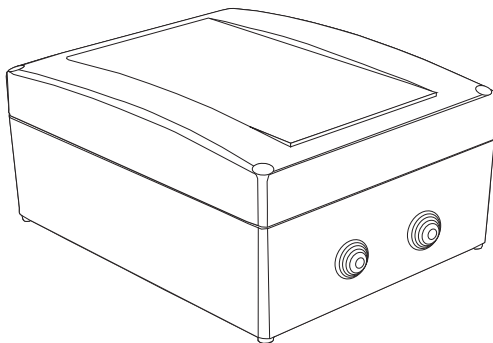
- Connect closed door relay output to next control unit STOP input.



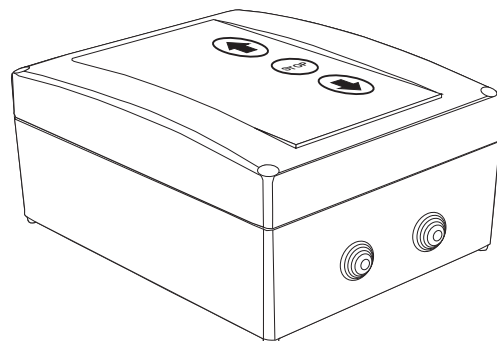
11. VERSIONS

POWER 1R0

- POWER 1R0: Equipment with plastic housing.



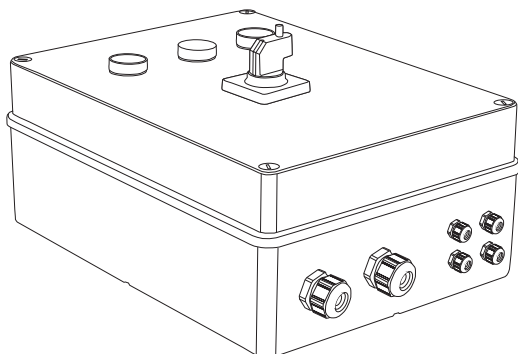
- POWER K 1R0: Equipment with plastic box housing and push buttons (frontal membrane).



POWER I 1R0

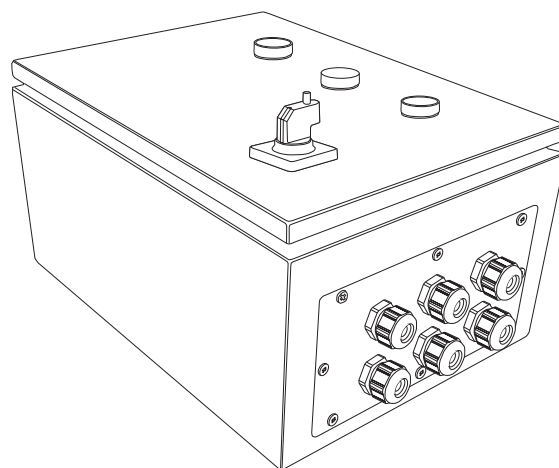
- POWER I 1R0: Equipment with plastic housing, push buttons (ALT / STOP), main switch and power light indicator.

- POWER GI 1R0: Equipment with plastic housing, push buttons (ALT / STOP), main switch and power light indicator and motor protection.



- POWER IM 1R0: Equipment with metallic housing, push buttons (ALT / STOP), main switch and power light indicator.

- POWER GIM 1R0: Equipment with metallic housing, push buttons (ALT / STOP), main switch, power light indicator and motor protection.



* Check for change STOP button to STOP switch.

TECHNICAL SPECIFICATIONS

Power Supply	380/220V AC +/- 10%
Drive	220V / 380V 3HP
Max Drive Power	1.5HP / 3HP
Power Supply for accessories	12V DC 500mA
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
Photozell inhibitor Card	Optional
Working Temperature	-20 to 85°

WARNING!!

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