GAMMA VERSUS MANUAL

COD. 1257066

Gamma VERSUS Manual v1.14

1.

1. INTRODUCTION

JCM presents a new generation of control panels with adaptable technology to your needs.

With this new range, you set up the control panel, both software and hardware, in order to not to have more functions than required, and satisfying the concept of "value for money" while applying all the technology and imagination.

In accordance to the European standard

A new range of control panels designed and prepared to fulfil the requirements of the EN 13241-1 standard applied to, industrial, commercial, garage... doors, and specially emphasizing the monitoring of a safe manoeuvre which is the object of the EN 12453 standard.

Design

New range of control panels created to meet the needs of every installation. The range has been designed following the modularity concept, allowing to customize the board from the very packaging to the software, as well as the options such as courtesy light, external push buttons, switch power, emergency stop button, wall mounted support, screws, hinges, the languages of the instruction manual... and others performances as the customization of the inputs and outputs.

Versatile control units

Under the concept Do It Yourself, the control unit can be customized as the real needs of the client. All the options and functions of the board can be configurated and modified from JCM (Software previously agreed), and be modified via radio, by proximity o through cable, directly on the board at the client offices or in the installation.
Moreover, the design of the box allows installing it up / down and keeping the display always in the correct position.

***Optimum* reliability**

The new range of JCM control units covers the necessity about flexibility and cost optimization that more and more is demanded by our customers, without putting aside the quality and innovation that characterizes JCM.

Time saving and more precision

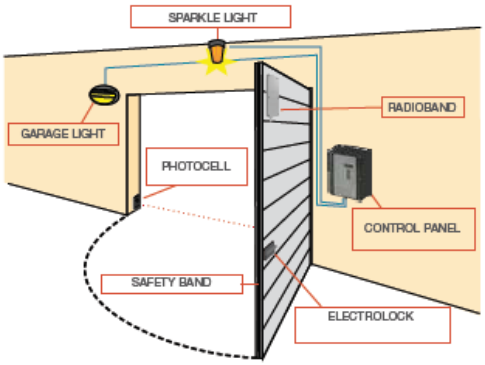
New pluggable cards designed to make configurations (potentiometers, display, LCD) in addition to the digital programming used until now. The display card shows in every moment the status of the board and it is visible from the outside of the control unit. Also, new functions as parameters locking with password, maintenance warning and detection of the stop of the motor for mechanical top, are incorporated. The new VERSUSProg, programming tool, allows the board parameters adjustment without the necessity of cable connection. Also the configuration of the control unit can be done without removing it from its packaging.

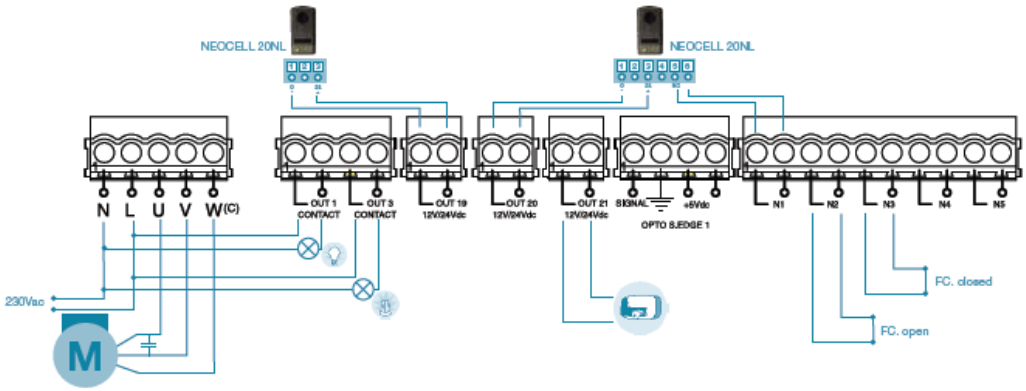
2. INSTALLATIONS TYPES

2.1 Swing-door

COMMUNITY GARAGE FOLDING DOOR WITH SAFETY BAND AND PHOTOCELL

VERSUSM30 control panel with buttons on cover, sparkle, garage light and electrolock. With RSEC/R radio security for RadioBand system.

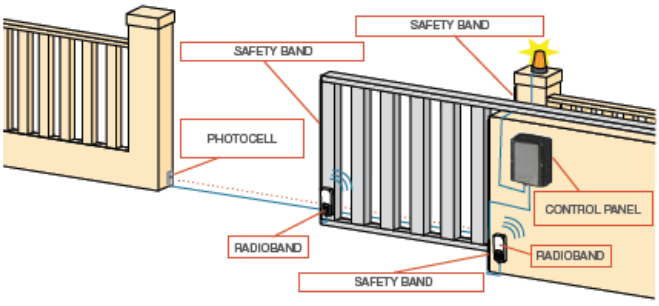


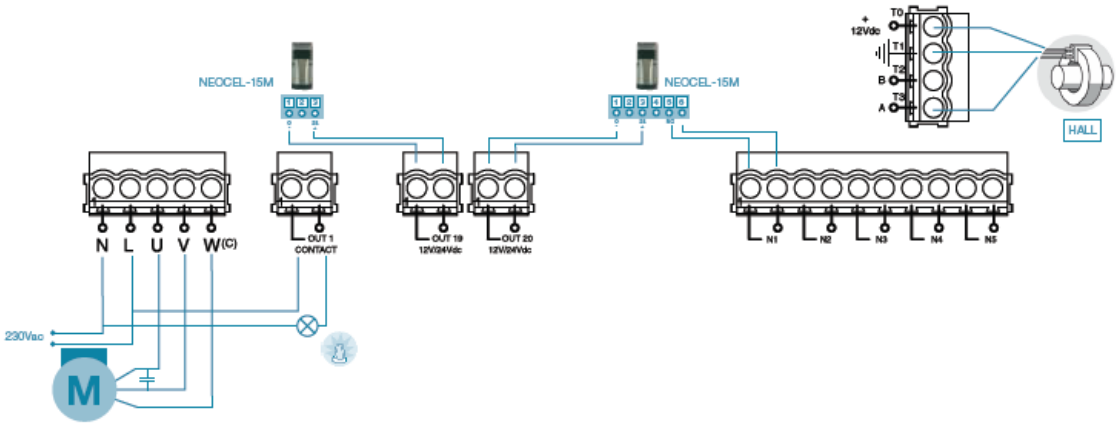


2.2 Gate

GATE WITH SAFETY BANDS AND PHOTOCELLS

VERSUSM20 control panel with sparkle and RSEC/R radio security card for RadioBand system.

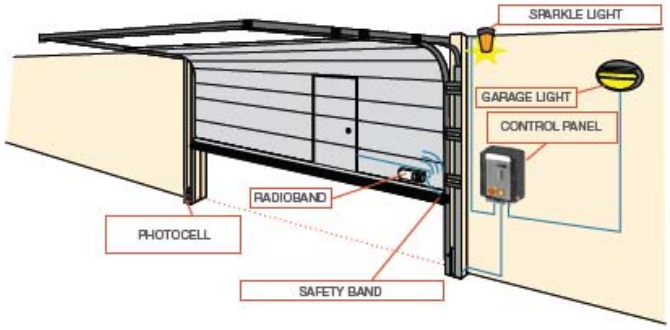


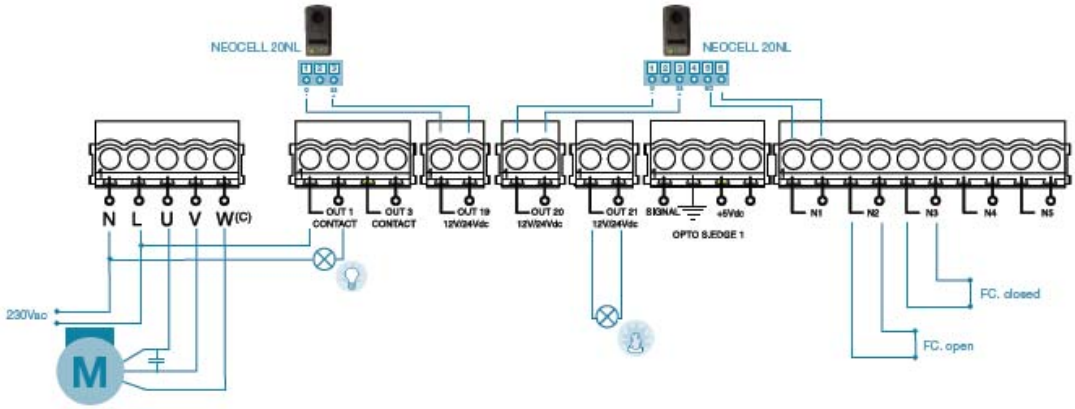


2.3 Sectional door

SECTIONAL GARAGE DOOR WITH SAFETY BAND AND PHOTOCELL

VERSUSM30 control panel with sparkle, garage light and RSEC/R radio security card for RadioBand system.

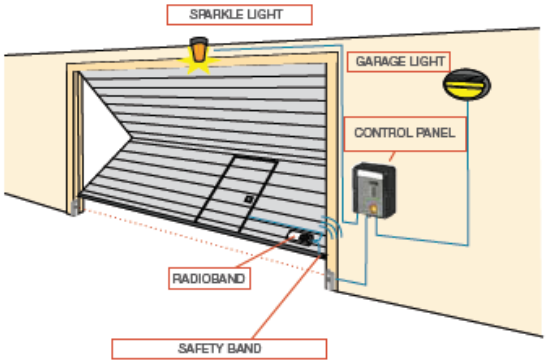


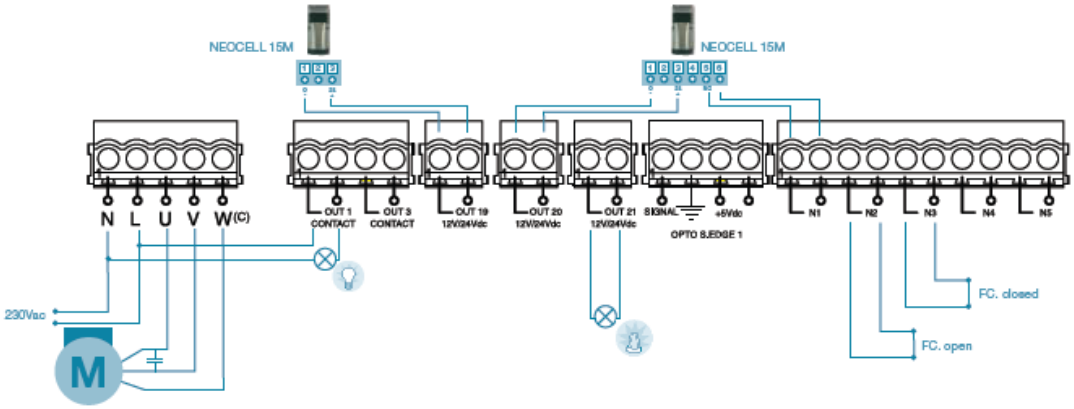


2.4 Folding-door

GARAGE FOLDING DOOR WITH SAFETY BAND AND PHOTOCELL

VERSUSM30 control panel with buttons on cover, sparkle, garage light and electrolock. With RSEC/R radio security for RadioBand system.

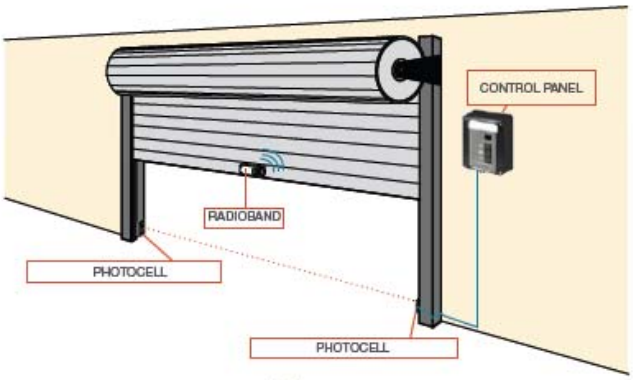


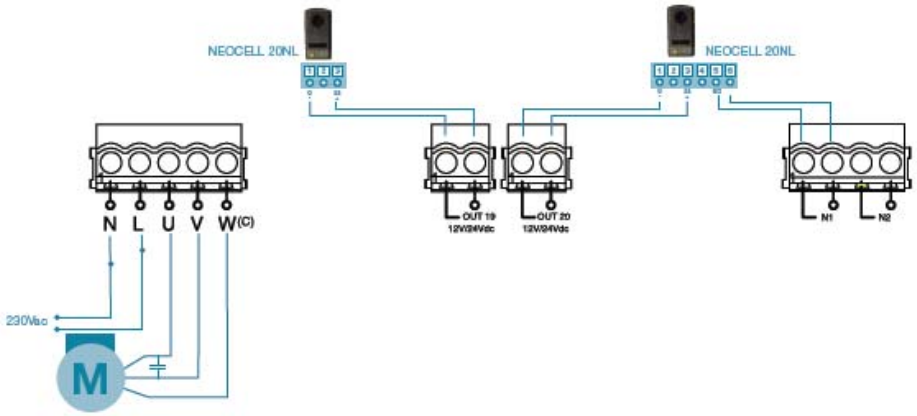


2.5 Rolling-door

ROLL-UP GARAGE DOOR WITH RADIOSENS SYSTEM AND PHOTOCELL

VERSUSM10 control panel with courtesy light, buttons on cover and RSEC/R radio-security card for RadioSens System with impact detection, without safety band.

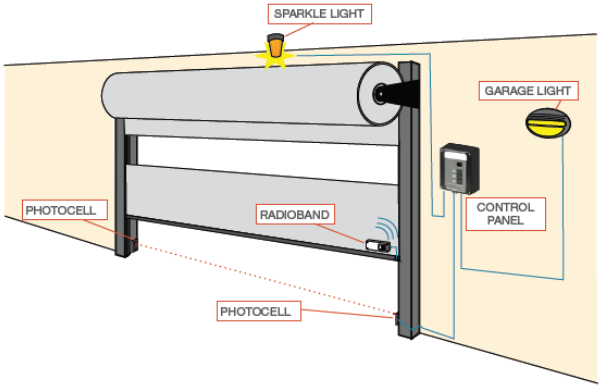


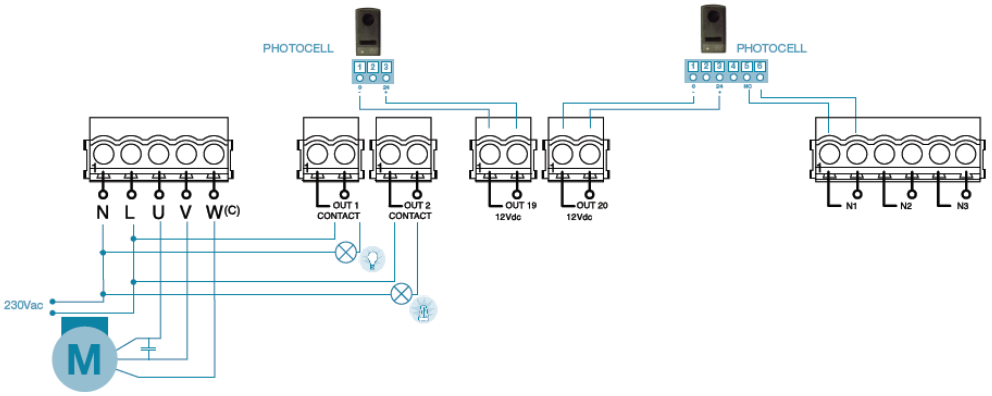


2.6 Fast-door

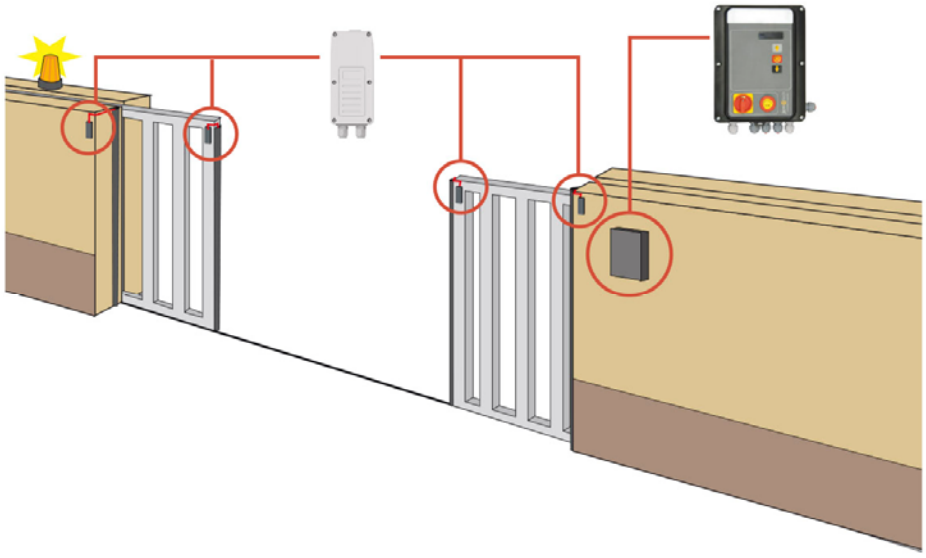
FAST DOOR WITH RADIOBAND SYSTEM AND PHOTOCELL

VERSUSM8 panel with courtesy light, buttons on cover and RSEC/R radio-security card for Radioband system.

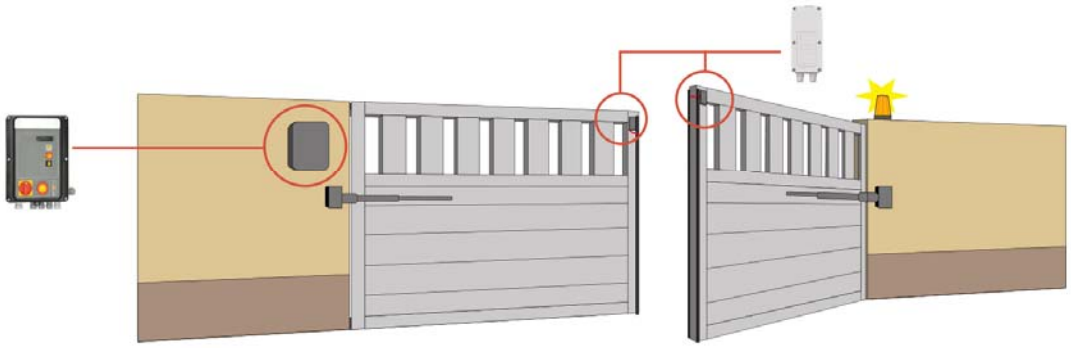




2.7 Two leaves sliding door



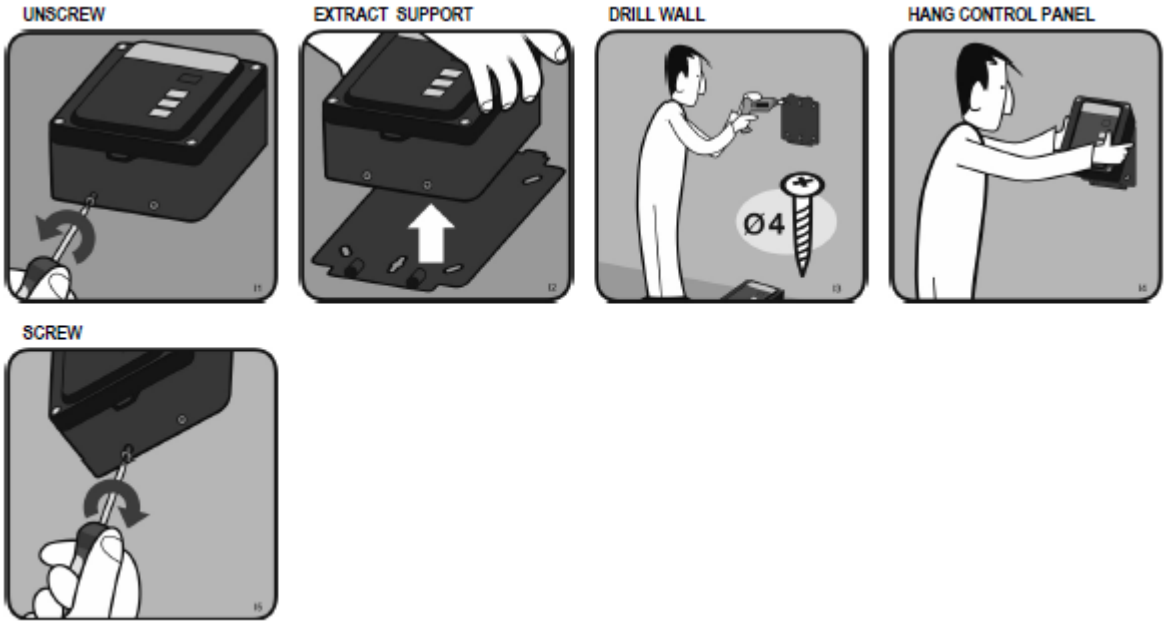
2.8 Two leaves swing-door



3. ASSEMBLY AND INSTALLATION

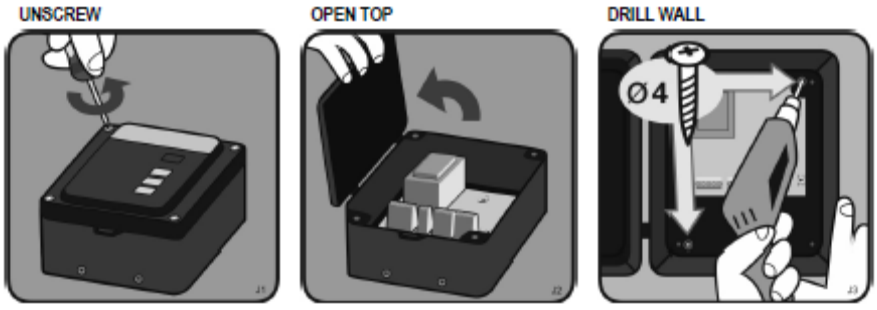
3.1 Installation with support

Unscrew the lower side screws. Separate the control unit from the support. Use support to make the holes in the wall, and screw the support with 4cm diameter wall screws. Hang the box on the support and screw the lower side.



3.2 Installation without support

Unscrew the 4 screws from the control unit to be released from the support. Open the door to the left. Present the box on the wall and mark the two holes with a pencil. Remove the box and make holes in the wall. Screw the box to the wall with screws, at least 4 cm in diameter.

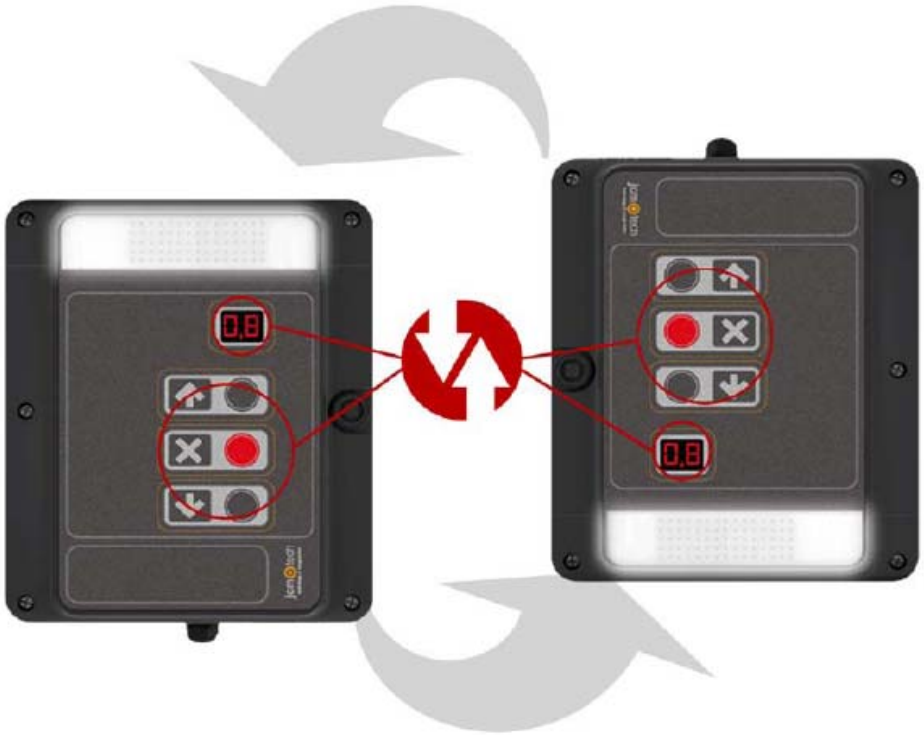


3.3 Reverse installation

The box of the control panel can be mounted upside down. This way the door can be opened to the right. To do this you only need to screw the box upside down, or mount the support upside down if included.

For the front keypad functions to be rotated, so that the arrows indicating up opens and the arrow indicating down closes, turn upside down the card VERSUS-DPLAY and VERSUS-POT plugged into the motherboard.

If you do not have any of them, the front keypad acts the opposite of what logically expected.



4. PARAMETERS

The configurable parameters of the control panels are grouped by parameter type as follows.

All these parameters depend on the installation type, used motor and used safety devices. Furthermore they depend on the needs of each installation like maneuver timings, speeds of the door, etc…

4.1 ON/OFF Option parameters

The ON/OFF parameters allows enable or disable control panel functions according to the needs of each installation.

The parameters marked with the file in grey are only read parameters and they cannot be modified.

Num.	Value	On/off	Description
01	Autoprogramming	0 – OFF	Enables the autoprogramming function.
		1 – ON	
02	Auto close	0 – OFF	Enables the autoclose function.
		1 – ON	
03	No stop on opening	0 – OFF	Enables the non inversion at opening function.
		1 – ON	
04	Slow speed	0 – OFF	Enables the slow speed.
		1 – ON	
06	Inhib.4cm S.EDGE.CL	0 – OFF	Enables the safety edge inhibition function during the last 4cm of the closing movement.
		1 – ON	
07	Dead man	0 – OFF	Enables the deadman function.
		1 – ON	
08	SEC.CL inhibition	0 – OFF	Enables the closing safety contact inhibition function.
		1 – ON	
09	FC.OP installed	0 – OFF	Indicates whether, during programming, the panel has found and memorised a limit switch on opening and, therefore, will act accordingly. In most cases, it will open until this is found, adding pulses or time if required.
		1 – ON	
0A	FC.CL installed	0 – OFF	Indicates whether, during programming, the panel has found and memorised a limit switch on closure and, therefore, will act accordingly. In most cases, it will close until this is found, adding pulses or time if required.
		1 – ON	
0B	Open mechanical stop	0 – OFF	Indicates whether, during programming, the panel has found and memorised a mechanical stop on opening and, therefore, will act accordingly. In most cases, it will open until the mechanical stop is found, adding pulses or time if required. (Only available in control panels for DC motors).
		1 – ON	
0C	Close mechanical stop	0 – OFF	Indicates whether, during programming, the panel has found and memorised a mechanical stop on closure and, therefore, will act accordingly. In most cases, it will close until the mechanical stop is found. (Only available in control panels for DC motors).
		1 – ON	
0D	HALL mode	0 – OFF	Enables the operation by pulses, encoder or Hall, i.e. the position is controlled by counting pulses.
		1 – ON	
0E	Time mode	0 – OFF	Enables the opertion by Time, i.e. the position is controlled by counting time.
		1 – ON	
0F	BackJump Open	0 – OFF	Enables the Back Jump after the opening movement is complete.
		1 – ON	
10	BackJump Close	0 – OFF	Enables the Back Jump after the closing movement is complete.
		1 – ON	
11	Customization ID	0 – OFF	Shows the customization number of the control panel.

		1 – ON	
12	Soft stop	0 – OFF	Enables the soft stop function.
		1 – ON	
13	Radio CH1/2 config	0 – OFF	Configures the radio mode: 1- ON: channel 1 open, channel 2 close; 2 - OFF: channel 1 start, channel 2 pedestrian
		1 – ON	
14	Open slow start pt.	0 – OFF	Enables slow starter before moving at normal speed at the start of each maneuver of opening.
		1 – ON	
15	Close slow start pt.	0 – OFF	Enables slow starter before moving at normal speed at the start of each maneuver of closing.
		1 – ON	
16	Virtual ground ref.	0 – OFF	Enables the memorisation of the starting point of the programming movement as the ground point. Most panels can only use this parameter when operating by pulses. If this parameter is enabled, the closure movement in programming will stop at this point. Where it is disabled, the panel will not stop the closure movement until a closure synchronism is received (end of run, mechanical stop, ALT, etc.), going past this point if required. Likewise, if it is enabled, movement operations by pulses will be counted on opening and if disabled they will be counted on closure.
		1 – ON	
17	Reference Autosearch	0 – OFF	Enables the automatic reference search. Where enabled and where, on connecting the panel, it has lost position with regards to the reference/s, the panel will automatically search for the reference without the need for any pulses or transmitters.
		1 – ON	
18	SEC.CL programmed	0 – OFF	Indicates if the closing security contact has been programmed during the manoeuvre. The security contact inhibition during the closing movement may not comply with regulations.
		1 – ON	
19	Substr. Bjump PROG	0 – OFF	This refers to the special function of subtracting the number of pulses used in closure Back Jump from the total number of pulses of the movement. In other words, if the closure Back Jump is enabled, the panel will search for the closure reference during the door programming process and will run the closure Back Jump. The point where the door stops will be the virtual ground point. It will not search for the ground reference again or run the closure Back Jump. This only works with operations by pulses and where the closure Back Jump is enabled. Once the panel has been programmed, the closure Back Jump will be disabled. This must be taken into account for later programming.
		1 – ON	
1A	Closing by CSEC	0 – OFF	Enables the closure by security contact.
		1 – ON	
1B	HALL A type mode	0 – OFF	Configures the HALL_A type (PNP/NPN) connected. 1- ON: PNP 0 - OFF: NPN
		1 – ON	
1C	HALL B type mode	0 – OFF	Configures the HALL_B type (PNP/NPN) connected. 1- ON: PNP 0 - OFF: NPN
		1 – ON	
1D	Limit switch DC Mot	0 – OFF	Enables the detection of mechanical stops by current (DC motors).
		1 – ON	
1E	Limit switch AC Mot	0 – OFF	Enables the detection of mechanical stops by current (AC motors).
		1 – ON	
1F	Limit opening detected	0 – OFF	Indicates whether, during programming, the panel has found and memorized a mechanical stop on opening and, therefore, will act accordingly. In most cases, it will open until the mechanical stop is found, adding pulses or time if required.
		1 – ON	
20	Limit closing detected	0 – OFF	Indicates whether, during programming, the panel has found and

		1 – ON	memorized a mechanical stop on closure and, therefore, will act accordingly. In most cases, it will close until the mechanical stop is found.
21	HALLB IN available	0 – OFF 1 – ON	Enables the second Hall input (HALL_B).
22	Lock mode	0 – OFF 1 – ON	Indicates the RSENS lock configuration, if it has been detected on programming mode.
23	RBAND detected	0 – OFF 1 – ON	Indicates the RBAND presence, if it has been detected on programming mode.
24	Error info displayed	0 – OFF 1 – ON	Enables the advanced level of errors/warnings displayed.
25	Pedestrian mode	0 – OFF 1 – ON	Enables the pedestrian mode.
26	Motor outputs inverted	0 – OFF 1 – ON	Enables the sense inversion of motor outputs.
27	Maximum speed close	0 – OFF 1 – ON	Enables the closing action at maximum speed.
28	RBAND mode	0 – OFF 1 – ON	Enables the RBAND mode.
29	RSENS mode	0 – OFF 1 – ON	Enables the RSENS mode.
2A	RSENS detected	0 – OFF 1 – ON	Indicates the RSENS presence, if it has been detected on programming mode.
2B	Time/HALL autoconfig	0 – OFF 1 – ON	Enables the automatic detection of time mode or Hall mode.
2C	Half Dead man mode	0 – OFF 1 – ON	Enables the semi-deadman mode.
2E	Deadman if RSEC virgin	0 – OFF 1 – ON	Enables dead man operating if a not programmed RSEC/R is detected.
2F	Autodetect OptoEdge IN1	0 – OFF 1 – ON	Indicates that the IN1 input is configured as optical edge input.
30	Autodetect OptoEdge IN2	0 – OFF 1 – ON	Indicates that the IN2 input is configured as optical edge input.
31	Autodetect OptoEdge IN3	0 – OFF 1 – ON	Indicates that the IN3 input is configured as optical edge input.
91	Pre-FLASH option	0 – OFF 1 – ON	Enables the pre-flash function at the beginning of the manoeuvre.
92	RSENS Dynamic Radio	0 – OFF 1 – ON	Enables the dynamic adjustment mode the radio power for the RSENS.
B1	Block On/off by password	0 – OFF 1 – ON	Enables the blockage of the control panel via password (default value 0000).
B4	Current blockage status	0 – OFF 1 – ON	Indicates if the control panel is blocked currently.
B6	Recharge maneuver	0 – OFF 1 – ON	Enables the activation of the recharge maneuver during 3 seconds each hour.
BD	Reverse strike at open	0 – OFF 1 – ON	Enables the reverse strike at open
BE	Absolut encoder mode	0 – OFF 1 – ON	Enables the operating by absolute encoder, that means that the position control is done by the absolute encoder control
C1	Commercial mode	0 – OFF 1 - ON	Enable commercial mode, that means that the opening is done in deadman or automatic mode and the closing always in deadman mode.
C2	Programming forced	0 – OFF 1 - ON	Enable the programming sequence forced, that means that once the control panel is power supplied, it enters automatically in programming mode.
C3	Step by step sequence	0 – OFF 1 - ON	Enable step by step sequence operating through start button.

C6	Partial inversión during closing movement	0 – OFF 1 - ON	Enable the partial inversión during closing movement, that means that if during the closing movement a safety element is activated, it will opens partially the door.
D1	M2 FC.OP installed	0 – OFF 1 - ON	Indicates whether, during programming, the panel has found and memorised an End of Run on opening in motor M2 and, therefore, will act accordingly. In most cases, it will open until this is found, adding pulses or time if required.
D2	M2 FC.CL installed	0 – OFF 1 - ON	Indicates whether, during programming, the panel has found and memorised an End of Run on closure in motor M2 and, therefore, will act accordingly. In most cases, it will close until this is found, adding pulses or time if required.
D3	M2 Open mechanical stop	0 – OFF 1 - ON	Indicates whether, during programming, the panel has found and memorised a mechanical stop on opening in motor M2 and, therefore, will act accordingly. In most cases, it will open until the mechanical stop is found, adding pulses or time if required. (Only available in control panels for DC motors).
D4	M2 Close mechanical stop	0 – OFF 1 - ON	Indicates whether, during programming, the panel has found and memorised a mechanical stop on closure in motor M2 and, therefore, will act accordingly. In most cases, it will close until the mechanical stop is found. (Only available in control panels for DC motors).
D6	Output alarm by fire alarm + closing security activated	0 – OFF 1 – ON	Enable fire alarm output by a fire alarm plus a closing security activated. In OFF, the output is activated when there is only a fire alarm activated.
D7	Automatic opening by fire alarm	0 – OFF 1 - ON	Enable the automatic opening by fire alarm activation. In OFF performs an automatic closing by the same fire alarm activation.
DC	Autodetect OptoEdge IN8	0 – OFF 1 - ON	Indicates that the IN8 input is configured as optical edge input.
DD	Autodetect OptoEdge IN9	0 – OFF 1 - ON	Indicates that the IN9 input is configured as optical edge input.
DF	Flash in Autoclose	0 – OFF 1 - ON	Enable flash function during autoclose time

4.2 Numeric parameters

The numeric parameters allow defining different values of the control panels.

Note: When the ***V-DPLAY*** is used to read and/or configure parameters, it must be taken into account the following. The ***V-DPLAY*** card only shows the two first digits of the most weight of the value. The real value then will be the value showed on the display multiplied by a scale factor (DPLAY factor), indicated on the third column of the table.

Real value = showed value * DPLAY factor

For example, if, for the 33 parameter, the display shows a 2, the real value will be 2*1000=2000.

Num.	Numeric	Factor DPLAY	Description
5	Time/pulse extra inv.	1000	Time or pulse number added in each inversion.
2D	Extratime Hydraulic mode	1000	Extra time added after reference in hydraulic mode.
32	Limit maneuvers	100000000	Limit number of panel movements as of which a special mode is enabled (operating or notification mode) in order to indicate that door maintenance is required.
33	Opening stop point	1000	Stop point for the opening movement. In the case of operations by pulses, it indicates the number of pulses required to open from the ground

			synchronism or closed door. The ground is normally point 0. In the case of operations by time, the entire opening movement operation duration is indicated. The panel returns the count in slow speed units, the programme recalculates by adding the slow and normal speeds, multiplied by the normal/slow ratio factor, as applicable.
34	Closing stop point	1000	Stop point for the closure movement. In the case of operations by pulses and on most panels, this is position value 0. It will be of no use for controlling the position of the door. In the case of operations by time, the entire closure movement operation duration is indicated. The panel returns the count in slow speed units, the programme recalculates by adding the slow and normal speeds, multiplied by the normal/slow ratio factor, as applicable.
35	Open slow start pt.	1000	Opening movement point where the slow speed is started in order to be able to slow down the door. In the case of operations by pulses, this is normally the number of pulses with regards to the ground (closed door). In the case of operations by time, the programmer will indicate the time from the start of opening to this point.
36	Close slow start pt.	1000	Closure movement point where the slow speed is started in order to be able to slow down the door. In the case of operations by pulses, this is normally the number of pulses with regards to the ground (closed door). In the case of operations by time, the programmer will indicate the time from the start of closure to this point.
37	Open Ped.stop point	1000	Stop point for the door during pedestrian opening movements.
38	Close Ped.stop point	1000	Stop point for the door during pedestrian closure movements.
39	Open Ped.slow start pt.	1000	Opening movement point where the slow speed is started in order to be able to slow down the door on pedestrian opening.
3A	Close Ped.slow start pt.	1000	Closing movement point where the slow speed is started in order to be able to slow down the door on pedestrian opening.
3B	SEC.CL inhib.point	1000	Point at which security contact inhibition is started during the closing movement.
3C	BJump time/pulses open	1000	Distance run as opening Back Jump. It is normally a small distance in pulses or time.
3D	Bjump time/pulses close	1000	Distance run as closure Back Jump. It is normally a small distance in pulses or time.
3E	Max.time/pulses to limit	1000	Number of pulses or time to be added to the opening and closure movement to search for the reference, i.e. to reach the end of run or mechanical stop memorised during programming.
3F	Inertia opening	1000	Number of pulses that the door has run with the motor at a standstill due to inertia during opening operations.
40	Inertia closing	1000	Number of pulses that the door has run with the motor at a standstill due to inertia during closure operations.
41	Autoclose value	10	Auto-close time.
42	Inhib.zone start point	1000	Size of the inhibition zone of any safety device at the end of the maneuver.
43	Imax normal speed	10	Maximum current measured during programming at normal speed. This will normally be the current limit that the panel will accept during operations at normal speed.
44	Imax low speed	10	Maximum current measured during programming at slow speed. This will

			normally be the current limit that the panel will accept during operations at slow speed.
45	Current margin	10	Level of sensitivity with which an obstacle due to overcurrent will be detected during normal operations. In other words, the value that is added to the memorised current curve and that stipulates the current limit permitted at each movement point (motor power).
46	Norm/Low speed factor	10	Ratio between the normal and slow speed of the door. The higher the value, the lower speed.
47	Max.security detections	10	Number of security trigger reversals permitted before auto-close is inhibited. Where the door exceeds this maximum number of consecutive closure reversals without being able to close completely, the auto-close function will be disabled.
48	Max.autotests before err.	10	Number of autotest repeats allowed before going out and showing error.
49	Time to close by SEC.CL	1000	Waiting time before doing the closing movement by security contact.
4A	Electrolock time	10	Activation time of the electrolock.
4B	Courtesy light time	10	Activation time of the garage light.
4C	Flash frequency	10	Flash period time.
4D	Pre-flash time	10	Pre-flash time.
4E	Max.sequence time	10	Maximum maneuver time.
4F	Press.time to deadman	10	Needed pushing time of the Open or Close Pushbutton to enter to deadman mode.
50	Panic signal period	10	Activation time of the panic signal.
51	Integrator value TH1	1000	Integrator threshold 1 value (internal limit switch detection).
52	Integrator value TH2	1000	Integrator threshold 2 value (internal limit switch detection).
53	RSENS inhib.margin	10	Inhibition zone of the closing maneuver of RSENS.
93	Current margin in PROG	10	Level of sensitivity with which an obstacle due to overcurrent will be detected during programming.
94	AC Motor speed regul.	10	AC motor power regulation value.
95	AC Motor LOW sp. Regul.	10	AC motor power regulation value in slow speed.
B2	Password value	100(*)	Password's value for the blockage of the control panel.
B3	Inversion time by SEC.CL	100	Inversion time after closing security detection.
B5	Traffic control mode	10	Indicates the value of the traffic control mode.
C0	Maintenance counter	100000000	Maintenance counter. It increases in each full maneuver (opening + closing).
C7	Partial opening time per inversion on closing.	1000	Time of partial opening per inversion on closing.

C8	Filtering time for SEC.CL input	1000	Filtering time for closing security contact input. It allows to delay the activation of that input.
CB	Stop point open M2	1000	Stop point M2 in opening. In case of operating by pulses, it indicates the number of pulses that are needed to open from the floor synchronism point to door closed. In case of operating by time, it indicates the duration of the full opening maneuver. The control panel returns this number in units of slow speed, the programmer reclaculates making the sum of slow and normal speeds multiplied by the normal/slow relation factor correspondly.
CC	Stop point close M2	1000	Stop point M2 in closing. In case of operating by pulses, it indicates the number of pulses that are needed to open from the floor synchronism point to door closed. In case of operating by time, it indicates the duration of the full opening maneuver. The control panel returns this number in units of slow speed, the programmer reclaculates making the sum of slow and normal speeds multiplied by the normal/slow relation factor correspondly.
CD	Slow speed pos.open M2	1000	Initial position of slow speed in motor M2 opening. In case of operating by pulses, it is the number of pulses form the floor (door closed). In case of operating by time, the programmer will indicate the time from the beginning of the opening to this point.
CE	Slow speed pos.close M2	1000	Initial position of slow speed in motor M2 closing. In case of operating by pulses, it is the number of pulses form the floor (door closed). In case of operating by time, the programmer will indicate the time from the beginning of the opening to this point.
CF	Offset in opening between M1 and M2.	1000	Offset in opening between M1 and M2. The programmer will indicate the offset time between motor M1 and motor M2.
D0	Offset in closing between M1 and M2.	1000	Offset in closing between M1 and M2. The programmer will indicate the offset time between motor M1 and motor M2.
D5	Autoclosing or auto-opening time (in second units) when fire alarm activated.	10	Autoclosing or auto-opening time (in second units) when fire alarm activated. Once fire alarm activated, the door will open or close automatically when this time is finished.
DE	Pre-flash function mode	10	Pre-flash function mode: 0 – Pre-flash on opening and closing; 1 – Pre-flash only on opening; 2 – Pre-flash only on closing
EO	Tamper Counter	1000	Indicates the number of activations of tamper input. It is necessary to have this input activated to be able to use the counter.
E1	PowerUp Counter	1000	Indicates the number of times the control panel has been restarted.

(*) The password value is composed of 4 digits so that it can take values from 0000 to 9999. As it is modified the V-DPLAY accessory, first introduce the first 2 digits higher (P1) and then the other 2 digits (P2).

4.3 Switch parameters

The switch parameters allow assigning different functions to each option of the switch. Each switch input (option) can have different values; they are indicated on the third column of the following table.

If there is a physical switch on the board with one of the following parameters associated, it will be taken into account always. That means, if option 1 of the physical switch on the board has assigned the function Autoprogramming and it is at ON, and the parameter 01 (Autoprogramming) is at OFF, the control panel will take the value Autoprogramming at ON.

4.3.1 Switch parameters

Num	Switch	Available values - description

0	NO FUNCTION	The switch has not got a defined function
1	AUTOPROGRAMMING	Enables the autoprogramming function
2	AUTOCLOSE	Enables the autoclose function
3	NOSTOP ON OPENING	Enables the non inversion at opening function
4	SLOW SPEED	Enables the slow speed
5	ELECTROLOCK	Disables the electrolock function
6	INH.4CM S.EDGE.CL	Enables the safety edge inhibition function during the last 4cm of the closing movement.
7	DEAD MAN	Enables the deadman function
8	SEC.CL INHIBITION	Enables the closing safety contact inhibition function.
9	RSENS CONFIG	Enables the RSENS mode.
10	RBAND CONFIG	Enables the RBAND mode.
11	TIME/HALL CONFIG	Configures: 1 - ON: Time function; 2 - OFF: HALL function
12	SEC.CL TEST	Enables the closing security contact autotest
13	SEC.OP TEST	Enables the opening security contact autotest
14	PRE-FLASH	Enables the pre-flash function
15	CLOSING BY SEC.CL	Enables the closing security contact
16	COURTESY LIGHT/FLASH	Configures: 1 - ON: garage light output; 2 - OFF: flash output
17	TEST PRESSURE SWITCH	Configuration test pressure switch function.
18	INH.OP.PRESSURE SW	Enables the inhibition function of the pressure switch during the opening sequence.
19	SEC.CL OPEN REF	Configuration of close security contact as opening reference function.
20	AUTO DETECT.FC.	Configuration of the autodetection of limit switches by current (AC motors).
21	REVERSE STRIKE	Configuration of the reverse strike at open.
22	SEC. OPEN & CLOSE	Configuration closing security contact as closing/opening security contact function
23	OPEN DM OR AUTO (*)	Configuration opening sequence in deadman in comercial mode. In OFF the opening is made by deadman
24	COMMERCIAL MODE (*)	Configuration commerce and garage mode functions
25	INVERT BOLLARD OUTPUT	Output configurated as inverted bollard output.
26	TWO MOTORS MODE	Enables the function to use control panel to control two motors.
27	PULSE(OFF)-C.LIGHT(ON)	Configuration output is PULSE 2sec (OFF) or COURTESY LIGHT (ON) function

Num	Switch
54	Switch 1
55	Switch 2
56	Switch 3
57	Switch 4
58	Switch 5
59	Switch 6
5A	Switch 7
5B	Switch 8

5C	Switch 9	28	FIXED FLASH	Configuration to fix flash output to use electronic flash lights
		29	CHARGE MANEUVER	Configuration to enable charge maneuver every 1 hour during 3 seconds.
		30	AUTOMATIC FIRE OPEN	Enables the automatic opening due to the deactivation of the fire alarm signal.
		31	DM BUTTON&RADIO	Configuration dead man function by using buttons or radio (active in OFF position)
		32	CLOSING DM MODE	Configuration dead man mode forced in closing maneuver
DB	Switch 10			

(*) This function is special and only available in CBX control panel.

4.3.2 Jumpers

Jumper	Function
JP	If cut off does not allows Side-prog programming

4.4 Input parameters

The input parameters allow configuring each available input of the control panel. Each input can have different values; they are indicated on the third column of the following table.

Num	Inputs	Available values - description		
5E	IN 1:IN10	0	NO FUNCTION	The input has not got a defined function.
		1	8k2 S.EDGE.CLOSE	Closing safety edge input (8k2) .
		2	8K2 S.EDGE.OPEN	Opening safety edge input (8k2).
		5	FC.OP M1	M1 motor opening limit switch input (NC).
		6	FC.OP M2	M2 motor opening limit switch input (NC).
		7	FC.CL M1	M1 motor closing limit switch input (NC).
		8	FC.CL M2	M2 motor closing limit switch input (NC).
		9	SEC.OP	Opening security contact input (NC).
		10	SEC.CL	Closing security contact input (NC).
		11	STOP	Stop pushbutton input (NC).
		12	START	Start pushbutton input (NO).
		13	OPEN	Open pushbutton input (NO).
		14	CLOSE	Close pushbutton input (NO).
		15	PEDESTRIAN START	Pedestrian pushbutton input (NO).
5F		16	PEDESTRIAN OPEN	Open pedestrian pushbutton input (NO).
60		17	DEAD MAN OPEN	Open pushbutton input in deadman mode (NO).
61		18	DEAD MAN CLOSE	Close pushbutton input in deadman mode (NO).
62		19	DEAD MAN OP-CL	Start pushbutton input in deadman mode (NO).
63		20	HALL_A MOTOR 1	HALL A for M1 motor input
64		21	HALL_B MOTOR 1	HALL B for M1 motor input
		22	HALL_A MOTOR 2	HALL A for M2 motor input
		23	HALL_B MOTOR 2	HALL B for M2 motor input
		24	ZERO CROSS	Configuration input as zero pass.
		25	PROG	Programming pushbutton input PROG.
		26	CURRENT MOTOR 1	Configuration input as current motor 1.

65	
66	
67	
D9	IN11:IN12
DA	
68	M1 current/zerocross IN
69	M2 current IN
6A	START pushbutton IN
6B	STOP pushbutton IN

27	CURRENT MOTOR 2	Configuration input as current motor 2.
28	SEC.OP	Magnetic opening security contact input (connected to MTC).
29	RADIO START	Start pushbutton via radio input (NO).
30	STOP BY TEMPERATURE	Temperature stop input (thermal).
31	SEC.CL	Magnetic closing security contact input (connected to MTC).
32	SEC.OP AUTOTEST	Opening security contact with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be used.
33	SEC.CL AUTOTEST	Closing security contact with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.
34	S.EDGE.CL AUTOTEST	Closing safety edge with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.
35	S.EDGE.OP AUTOTEST	Opening safety edge with autotest function input (NC). If this input is used, an autotest output ready to perform autotest functions must be also used.
36	RSENS DETECTION	Configuration input as RSENS detection.
37	RBAND OPEN DETECT	Configuration input as RBAND opening detection.
38	RBAND CLOSE DETECT	Configuration input as RBAND closing detection.
39	STOP N.O.	STOP input (NO)
40	OPTO EDGE.CL	Closing optical safety edge input.
41	OPTO EDGE.OP	Opening optical safety edge input.
42	PRESSURE SWITCH	Configuration input as pressure switch
43	AUTOEDGE.CL	Closing automatic 8K2/OPTO safety edge input.
44	AUTOEDGE.OP	Opening automatic 8K2/OPTO safety edge input.
45	COURTESY LIGHT ON	Courtesy light activation input.
46	OPEN SLOW SPEED REF	Configuration input as opening slow speed entering reference.
47	CLOSE SLOW SPEED REF	Configuration input as closing slow speed entering reference.
48	OPEN INSIDE	Configuration input as open from inside.
49	FIRE SIGNAL NO	Configuration input as fire signal (Normally Opened)
50	FIRE OPEN	Configuration input as force open signal
51	STEP BY STEP INPUT	Configuration input as opening/closing sequence by means of the same button
52	START RADIO SEC_DM	Configuration input as START radio that allows dead man mode if security active
53	OPEN M1	Configuration input as OPEN motor 1
54	CLOSE M1	Configuration input as CLOSE motor 1
55	OPEN M2	Configuration input as OPEN motor 2
56	CLOSE M2	Configuration input as CLOSE motor 2
57	PRESSURE.SW_M2	Configuration input as pressure switch M2
58	FIRE SIGNAL NC	Configuration input as fire signal (Normally Closed)
59	TAMPER	Configuration input as tamper signal
60	AUTOCLOSE TIME REG	Configuration input as autoclose time configuration by means of potentiometer
61	SPEED REGULATION	Configuration input as speed regulation factor by means of potentiometer

6C	OPEN pushbutton IN	
6D	CLOSE pushbutton IN	
6E	PROG pushbutton IN	
6F	(HALL A) IN	
70	OPTO EDGE IN	
71	(DCS CH1) IN	
72	(DCS CH2) IN	
73	Low Voltage IN	
74	(Motion C1) IN	
75	(Motion C2) IN	
76	(Motion C3) IN	
77	(Motion C4) IN	
C9	OPEN 2 pushbutton IN	
CA	CLOSE 2 pushbutton IN	

4.5 Output parameters

The output parameters allow configuring each available input of the control panel. Each output can have different values; they are indicated on the third column of the following table.

Num	Output	Available values - description

0	ALWAYS OFF	The output has not got a defined function
1	COURTESY LIGHT LEVEL	Garage light level output (duration = maneuver time + programmed time)
2	COURTESY LIGHT PULSE	Garage light pulse output (duration = programmed time)
3	FLASH	Flash output
4	FLASH+COURTESY LIGHT	Flash+courtesy light by level output.
5	ELECTROLOCK	Electrolock output
6	ELECTROBRAKE	Electrobrake control output
7	AUTOTEST SIGNAL	Security contact autotest output
8	OPENING SEQ. START	Active output right at the beginning of the opening operation
9	OPENING SEQUENCE	Active output during all the opening operation
10	CLOSING SEQ. START	Active output right at the beginning of the closing operation
11	CLOSING SEQUENCE	Active output during all the closing operation
12	ERROR SIGNAL	Active output when error detection
13	PEDESTRIAN SEQUENCE	Active output during pedestrian mode
14	PANIC SIGNAL	Active output when panic signal detection
15	GREEN LIGHT	Green traffic light control output
16	RED LIGHT	Red traffic light control output
17	INSIDE GREEN LIGHT	Green inside traffic light control output (traffic control mode)
18	INSIDE RED LIGHT	Red inside traffic light control output (traffic control mode)
19	OUTSIDE GREEN LIGHT	Green outside traffic light control output (traffic control mode)
20	OUSIDE RED LIGHT	Red outside traffic light control output (traffic control mode)
21	INTRUSIVE SIGNAL	Intruder detection function output
22	S.EDGE ACTIVE	Active output when safety edge detection
23	SEC.OP ACTIVE	Active output when opening security contact detection
24	SEC.CL ACTIVE	Active output when closing security contact detection
25	FC.OP ACTIVE	Active output when opening limit switch detection
26	FC.CL ACTIVE	Active output when closing limit switch detection
27	ALARM	Active output when alarm signal detection
28	MAX. NUM.SEQUENCES	Active output when the maximum number of maneuvers is exceeded
29	ALWAYS ON	Output always active
30	MOTOR RUNNING	Active output at any door movement

Num	Output
78	OUT 1:OUT 6
79	
7A	
7B	
7C	
90	
A1	(TL-CARD-V) OUT
A2	
A3	
A4	
A5	
A6	
A7	
A8	
A9	
AA	
AB	
AC	
AD	
AE	

		31	LOW BATTERY SIGNAL	Active output when low battery detection
		33	ELECTROMAGNET	Configuration output as electromagnet control.
		34	BOLLARD	Configuration output as bollard control signal.
		35	BOLLARD LIGHT	Configuration output as a crown of light bollard.
		36	BOLLARD RED LIGHT	Configuration output as red traffic light bollard mode.
		37	BOLLARD WARNINGLIGHT	Configuration output as warning traffic light bollard mode.
		38	FLASH FIRE	Configuration output as flash fire
		39	FIRE SIGNAL OUTPUT	Configuration output as fire signal out
		40	MAINTENANCE OUTPUT	Configuration output as maximum number of sequences for maintenance are reached
		41	RSENS DETECT	Output configurated as RSENS detection.
		42	ELECTRO PULSED	Configuration output as electro pulsed
		43	DOOR OPENED	Configuration output as information of door opened
		44	DOOR CLOSED	Configuration output as information of door closed
		45	ELECTROMAGNET CL	Configuration output as electromagnet control for CLOSED state
AF		46	TAMPER	Configuration input as tamper signal
B0				

4.6 Status parameters

The status parameters indicate the state of the maneuver, last errors or control panel versions. These parameters are only read parameters and they cannot be modified.

Num.	Parameters	Factor DPLAY	Description
7D	Door pos in HALL mode	1000	Shows the door position when HALL mode
7E	Door pos in time mode	1000	Shows the door position when time mode
7F	Control panel status	10	Shows the control panel state (open, lost, closed)
80	Control panel last error	10	Shows the value of the last error detected
81	Number of sequences	100000000	Shows the number of memorized maneuvers
82	Variator SW version	1000	Shows the list version of the parameters from the control panel
96	Software version	1000	Shows the software version of the control panel
97	EEPROM version	1000	Shows the memory data version
98	Serial number	100000000	Shows the serial number of the control panel
99	Production ID	100000000	Shows the production number of the control panel
9A	Panel last Problem	10	Shows the last problem detected
9B	Panel last Warning	10	Shows the value of the last warning detected
9C	Current Consumption	10	Shows the value of the current consumption
9D	101-104 TL-CARD-	10	Shows if the TL-CARD-V with the 101, 102, 103, 104 output is

	V Status		connected.
9E	111-114 TL-CARD-V Status	10	Shows if the TL-CARD-V with the 111, 112, 113, 114 outputs is connected.
9F	121-124 TL-CARD-V Status	10	Shows if the TL-CARD-V with the 121, 122, 123, 124 outputs is connected.
A0	131-134 TL-CARD-V Status	10	Shows if the TL-CARD-V with the 131, 132, 133, 134 outputs is connected.

5. LIGHT INDICATORS

Function	Indicates	Default value
ON	Power supply	Normally light on
STOP/ERROR	Operating warning or error	Normally light off
PROG	Programming mode	Normally light off
INXX	Input activated	Normally light off
OUTXX	Output activated	Normally light off

5.1 Indication of errors / warnings

In front of with an error or warning (*), the control unit displays its value by means of an STOP / ERROR LED indicator. The indication is showed when an open, close or stop state is reached. Once the indication is showed, then it disappears.

To display the value of the error or warning by means of the STOP / ERROR LED indicator, a series of slow and fast flashing are performed. An slow flash = 1 second ON indicator + 0.5 seconds OFF indicator. A quick flash = 0.3 seconds ON + 0.5 seconds OFF.

The error or warning value can be up to 2 digits. To display the value, the control panel performs a slow number of flashes to indicate the first digit and a number of quick flashes to show the second digit. For example, the error 19 is displayed by one slow flash + 9 quick flashes.

(*) Warnings will be only displayed if the P24 parameter is active (ON).

6. DISPLAY MESSAGES

6.1 Serious errors

Errors associated with the security of the installation or equipment malfunction. These errors must be resolved always.

	Error	Description	Solution
Er02	INT. ERROR	Internal error	Go to the technical service
Er08	HA ERROR	Hall A error	Verify the hall A input connections
Er09	PROG TIME MAX	Programming time maximum	Program a maneuver below the maximum allowed time
Er 12	S.EDGE.CL ERROR	Closing safety edge error	Verify the security edge band connections when closing
Er 13	S.EDGE.OP ERROR	Opening safety edge error	Verify the security edge band connections when opening
Er 16	TEMP ON	Motor temperature sensor activated	Verify the motor state and the temperature sensor connection
Er 19	TEST.CL ERROR	Closing auto test error	Verify that the security device connected to the security connection when closing is in good conditions and correctly installed
Er20	TEST.OP ERROR	Opening auto test error	Verify that the security device connected to the security connection when opening is in good conditions and correctly installed
Er21	RSENS NC WHEN PROG	Control panel programmed without RSENS connected	Connect the RSEC card and program the control panel again
Er22	RSENS NOT FOUND	Control panel programmed with RSENS connected and now it is not connected	Program the control panel again without RSEC or connect the RSEC again that was programmed to the control panel previously
Er23	RSENS PROG ERROR	RSENS programming error, are R and T paired?	Program the transmitter RSENS to the RSEC receiver card
Er26	STOP	Control panel stopped by an STOP	Verify that the STOP input has been activated
Er28	INTERNAL ERROR	Internal control panel error	Go to the technical service
Er29	DOOR LOCKED RSENS	Closed door latch	Open the door's latch before the opening manoeuvre
Er30	RBAND NOT FOUND	Control panel programmed with RBAND connected and now it is not connected	Program the control panel again without using RBAND or connect the RBAND that was connected to the control panel previously
Er31	RBAND NC WHEN PROG	Control panel not programmed with RBAND connected	Connect the RBAND card and program the control panel again
Er32	FC NOT LEARNT	End of course learning error	Verify the intern motor limit switches
Er33	ERROR SYNC RSENS	Synchronization error between the receiver and the transmitter	Program the transmitter RSENS to the RSEC receiver card

Er36	RSENS RADIO ERROR	Detection through opening current	Verify the batteries of the RSENS emitter id they are charged, verify the radio signal with the Check function
Er39	CTROL PANEL BLOCKED	Control panel cannot enter programmation because it is blocked.	Enter the password with V-DPLAY or VERSUS-PROG for unlocking the control panel.
Er41	ERROR ABSOLUT ENCODER	Absolut encoder not found or returning a mistake	Verify the connection of the absolute encoder

6.2 Minor errors

Errors that do not inhibit the operation of the control panel but it is recommended to solve for a good operating.

	Error	Description	Solution
Er01	NOT PROGRAMMED	Control panel not programmed	Program the control panel again
Er07	REF. NOT FOUND	No reference has been reached	Define a reference when programming the control panel (limit switch, mechanical stop, etc...)
Er24	FCO	Control panel programmed with RSENS but without FCO	A limit switch should be installed to improve the installation with the RSENS system
Er25	RSENS LOW BATTERY	RSENS low battery	Verify the batteries of the RSENS transmitter
Er42	TAMPER	Input tamper input has been activated indicating manipulation of the control panel	Information failure only for technical service.

6.3 Warnings

Informative messages from the control panel.

	Error	Description	Solution
Wr03	FC.CL M1 NOT FOUND	Closing end of course Motor 1 not found when expected	Verify the limit switch installation when motor 1 is closing
Wr04	FC.CL M2 NOT FOUND	Closing end of course Motor 2 not found when expected	Verify the limit switch installation when motor 2 is closing
Wr05	FC.OP M1 NOT FOUND	Opening end of course Motor 1 not found when expected	Verify the limit switch installation when motor 1 is opening
Wr06	FC.OP M2 NOT FOUND	Opening end of course Motor 2 not found when expected	Verify the limit switch installation when motor 2 is opening
Wr 10	S.EDGE.CL ON	Closing safety edge activated	Verify that the security edge activation was produces by an obstacle
Wr 11	S.EDGE.OP ON	Opening safety edge activated	Verify that the security edge activation was produces by an obstacle

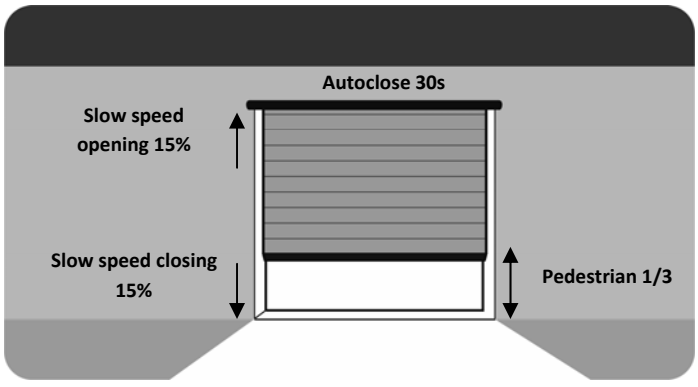
Er 14	C.SEC.CL ON	Closing security contact activated	Verify that the security edge activation was produces by an obstacle
Er 15	C.SEC.OP ON	Opening security contact activated	Verify that the security edge activation was produces by an obstacle
Er 17	MAG.DETEC ON	Magnetic closing security activated	Verify that the security edge activation was produces by an obstacle
Er 18	RSENS ON	RSENS security activated	Verify that the security edge activation was produces by an obstacle
Er27	C.SEC.M ON	Magnetic security contact activated	Verify that the security edge activation was produces by an obstacle
Er34	ERROR RADIO DESCRYPT	Receiving not programmed transmitters from another customer or installer	Verify that in the installation there are no emitters of another client/ installer activated with our control panel
Er35	ERROR RADIO RTDS	The radio signal received is very low	Verify the installation and the radio signal
Er37	S.OPTOEDGE.CL ON	Closing optical safety edge activated	Verify that the security edge activation was produces by an obstacle
Er38	S.OPTOEDGE.OP ON	Opening optical safety edge activated	Verify that the security edge activation was produces by an obstacle
Er40	PRESSURE SW ON	Pressure switch activation (hydraulic motor).	Verify that the pressure switch activation was produced by an obstacle.

7. VERSUS FUNCTIONS

7.1 Autoprogramming function

<table>
<tr><td>Model</td><td>All (except M22 model)</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P01</td><td>Autoprogramm ng</td><td>ON/OFF</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The autoprogramming function allows programming the control panel maneuvers by means of a single user action (by pressing control panel button START/OPEN or transmitter).</td></tr>
<tr><td>Configuration</td><td>To enable the autoprogramming function, it is needed to set to ON the P01 configuration parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the “Autoprogramming ON/OFF” function to an option switch.</td></tr>
<tr><td>Operating</td><td>If the autoprogramming function is enabled when the maneuver is programmed a single user action is needed. After this user action, the control panel automatically executes the opening and closing maneuvers. During these maneuvers the control panel searches and stores the opened/closed point references. Finally, the control panel exits the programming mode automatically.</td></tr>
<tr><td>Notes</td><td>The autoprogramming function can not be enabled if it is not possible to find an opened/closed point reference (this means, if no limit switches inputs or mechanical stop are present).

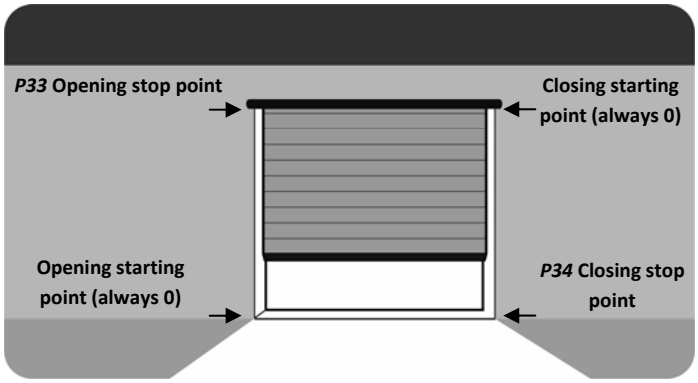
If this function is enabled, after the programming sequence the autoclosing timeout is set by default to 30 seconds. In addition the pedestrian maneuver is set by default to 1/3 of the main maneuver. Finally, in case of slow speed mode, the slow speed run will be a 15% of the main maneuver.

 
</td></tr>
</table>

7.2 Hall or time mode function

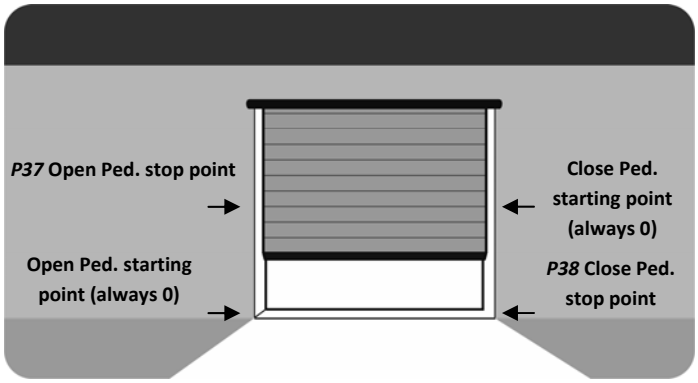
<table>
<tr><td>Model</td><td>Time mode (all) and Hall mode (M20,M30)</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P0D</td><td>HALL mode</td><td>ON/OFF</td></tr>
<tr><td>P0E</td><td>Time mode</td><td>ON/OFF</td></tr>
<tr><td>P33</td><td>Opening stop point</td><td>NUMERIC</td></tr>
<tr><td>P34</td><td>Closing stop point</td><td>NUMERIC</td></tr>
<tr><td>PCB</td><td>Opening stop point motor 2 (M22)</td><td>NUMERIC</td></tr>
<tr><td>PCC</td><td>Closing stop point motor 2 (M22)</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>VERSUS control panels can work either by time or by Hall.</td></tr>
<tr><td>Configuration</td><td>To enable Time or Hall modes it is necessary to set to ON the associated parameters (P0D or P0E parameters) by means of a VERSUS-PROG programming tool. It is also possible to enable or disable these functions by setting the mode Time/HALL function to an option switch. Enabling Time mode implies disabling the Hall mode and vice versa.</td></tr>
<tr><td>Operating</td><td>After configuring the working mode, the control panel will use Time or Hall signal as a position reference.</td></tr>
<tr><td>Notes</td><td>The main maneuver parameters that define its duration are the P33 and P34 configuration parameters (in addition to PCB and PCC in M22 model for second motor). The opened and closed positions are the starting points and they always take the 0 value. P33 parameter configures the opening stop point (opening maneuver duration) and the P34 parameter configures the closing stop point (closing maneuver duration). The PCB parameter sets the opening stop point for motor 2 (duration of opening operation) and the PCC parameter sets the closing stop point for motor 2 (duration of the closing) (model M22).

According to the selected working mode, all the position parameters will use a certain position units. In case of Hall mode, these units are pulses and in case of time mode, seconds or milliseconds will be used. By means of a VERSUS-PROG programming tool it is possible to see these position units.

 
</td></tr>
</table>

7.3 Pedestrian function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P37</td><td>Open Ped. stop point</td><td>NUMERIC</td></tr>
<tr><td>P38</td><td>Close Ped. stop point</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>VERSUS control panels can control 2 types of maneuvers: main and pedestrian maneuvers. The aim of the pedestrian maneuver is opening a portion of the door in order to let enough space to allow entering/exiting a person, without the need to open the hole door.</td></tr>
<tr><td>Configuration</td><td>The pedestrian mode is enabled by default and it is necessary to program its maneuver in the same way the main maneuver is programmed (except if autoprogramming function is enabled). The only difference is that the pushbutton needed to program the pedestrian maneuver is the PEDESTRIAN pushbutton.</td></tr>
<tr><td>Operating</td><td>After programming the pedestrian maneuver, if a PESESTRIAN pushbutton is pressed the pedestrian maneuver is executed and the door opens the portion of the programmed aperture.</td></tr>
<tr><td>Notes</td><td>The pedestrian maneuver parameters that define its duration are the P37 and P38 configuration parameters. The opened and closed positions are the starting points and they always take the 0 value. P37 parameter configures the opening stop point (opening pedestrian maneuver duration) and the P38 parameter configures the closing stop point (closing pedestrian maneuver duration).

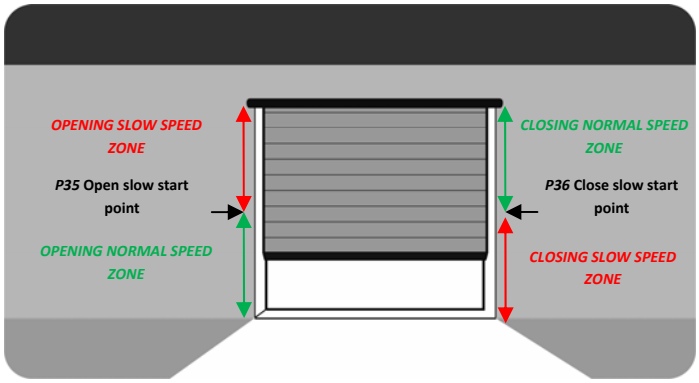
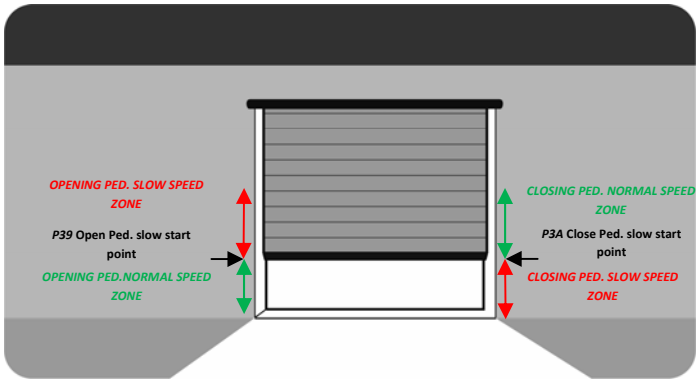
 
</td></tr>
</table>

7.4 Speed regulation and slow speed mode in AC motors function

<table>
<tr><td>Model</td><td>M20,M30, M22</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P04</td><td>Slow speed</td><td>ON/OFF</td></tr>
<tr><td>P46</td><td>Norm/Low speed factor</td><td>NUMERIC</td></tr>
<tr><td>P94</td><td>AC Motor speed regulation</td><td>NUMERIC</td></tr>
<tr><td>P95</td><td>AC Motor low speed regulation</td><td>NUMERIC</td></tr>
<tr><td>P35</td><td>Open slow start pt.</td><td>NUMERIC</td></tr>
<tr><td>P36</td><td>Close slow start pt.</td><td>NUMERIC</td></tr>
<tr><td>P39</td><td>Open Ped. Slow start pt.</td><td>NUMERIC</td></tr>
<tr><td>P3A</td><td>Close Ped. Slow start pt.</td><td>NUMERIC</td></tr>
<tr><td>PCD</td><td>Open slow start pt. motor 2 (M22)</td><td>NUMERIC</td></tr>
<tr><td>PCE</td><td>Close slow start pt. motor 2 (M22)</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>Some VERSUS control panels for AC motors allow controlling motor speed during the maneuver (normal speed regulation and slow speed mode).</td></tr>
<tr><td>Configuration</td><td>By default, the normal speed regulation function is enabled. This configuration parameter P94 allows modifying the normal speed regulation and it can take any value from 10% to 100%. The smaller the value, the slower the normal speed. This configuration parameter can be configured by means of VERSUS-PROG programming tool.

To enable slow speed mode it is necessary to set to ON the associated P04 parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the slow speed mode ON/OFF function to an option switch.

There are two configuration parameters that allow modifying the slow speed: The P46 parameter is used to adjust, in a coarse way, the normal/slow speed factor and it can take values from 0 to 255. The higher the value, the slower the slow speed according to the normal speed. The P95 parameter allows modifying the slow speed regulation, doing a fine adjustement, and it can take values from 0% to 90%. The higher the value, the slower the slow speed. Depending on the AC motor model these parameters will be needed to be adjusted in order to obtain the desired slow speed. This adjustment must be done with the AC motor connected to the door (full charge).</td></tr>
</table>

Operating	After configuring the parameters of normal speed regulation, these will be taken into account during the next maneuvers. After enabling the slow speed mode, a new programming sequence will be needed for main and pedestrian maneuvers. In this programming sequence, user will define the slow speed maneuver zones.
Notes	The slow speed maneuver parameters that define its duration are *P35*, *P36, PCD* and *PCE* configuration parameters for the main maneuver and *P39* and *P3A* configuration parameters for the pedestrian maneuver. *P35* and *P39* parameters configure the slow speed starting opening point and the *P36* and *P3A* parameters configure the slow speed starting closing point. PCD and PCE parameters set the slow speed starting opening or closing point for motor 2.To define these points it is necessary to press the START or PEDESTRIAN pushbutton during the programming sequence (except if autoprogramming function is enabled). For example, when programming the opening maneuver, the first press starts the maneuver in normal speed and the second press starts the slow speed maneuver and this second defines the slow speed starting point. - <u>Main maneuver slow speed points:</u>  - <u>Pedestrian maneuver slow speed points:</u> 

7.5 AC motor internal limit switches and blocking detection function

<table>
<tr><td>Model</td><td>M8,M10,M20,M30</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P1E</td><td>Limit switch AC motor</td><td>ON/OFF</td></tr>
<tr><td>P1F</td><td>Limit opening detected</td><td>ON/OFF</td></tr>
<tr><td>P20</td><td>Limit closing detected</td><td>ON/OFF</td></tr>
<tr><td>P51</td><td>Integrator threshold 1</td><td>NUMERIC</td></tr>
<tr><td>P52</td><td>Integrator threshold 2</td><td>NUMERIC</td></tr>
<tr><td>P3E</td><td>Max. time/pulses to limit</td><td>NUMERIC</td></tr>
<tr><td>P54…P5C</td><td>Switch X</td><td>SELECTOR</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>Some VERSUS control panels for AC motors allow detecting motor internal limit switches and motor blocking status.

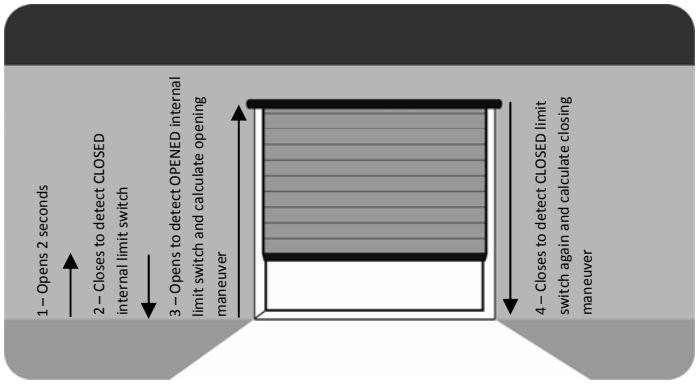
The motor blocking status detection is used as a safety function in order to avoid the motor activation due to a motor malfunction.

Motor internal limit switches detection function allows using the internal limit switches as an opened/closed position references. The use of these position references ensures a better door position control.</td></tr>
<tr><td>Configuration</td><td>To enable AC motor internal limit switches and blocking detection it is necessary to set to ON the associated P1E parameter by means of a VERSUS-PROG programming tool.

There is also possible to enable/disable this function by means of assigning this function to a one of the selector switches (P54 to P5C parameters).

There are also 4 status parameters (read-only parameters) that give information about this function. The P1F and the P20 parameters are set to ON if during the programming sequence AC motor internal switches are detected (P1F for the opening limit switch and P20 for the closing limit switch). P51 and P52 parameters inform about the electronic integrator circuit measured thresholds. These thresholds are measured during the programming sequence and they take a numeric value. They can be used to check an installation by an advanced installer or for customer service purposes.

Finally, there is another numeric configuration parameter that is used if AC motor internal limit switches detection is enabled. This is the P3E parameter and it configures the extra time/pulses that are added to search the programmed position references</td></tr>
</table>

Operating	After enabling these functions, a new programming sequence will be needed. During this programming sequence, internal limit switches will be searched.
Notes	With this function enabled, the programming sequence is slightly different to the normal programming sequence. After the first press, the control panel will start opening the door for 2 seconds and automatically it will close the door in order to search the close internal limit switch. After detecting it, it automatically starts opening the door until it detects the open internal limit switch and stops. Then it will start counting the autoclosing time (if not autoprogramming function is enabled). With another press the door will close until close internal limit switch is detected again. Finally the control panel will exit the programming sequence mode. 

7.6 Autoclosing function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P02</td><td>Autoclose</td><td>ON/OFF</td></tr>
<tr><td>P41</td><td>Autoclose value</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The autoclose function allows closing automatically the door after a certain period of time in opened position.</td></tr>
<tr><td>Configuration</td><td>To enable the autoclose function, it is needed to set to ON the P02 configuration parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the autoclose ON/OFF function to an option switch.

Autoclosing timeout is configured during the programming sequence but its value can be checked or modified by using the P41 configuration parameter. This parameter can take values from 0 seconds to several minutes. The units used for this parameter are seconds.</td></tr>
<tr><td>Operating</td><td>If the autoclose function is enabled when the maneuver reaches the opened position it starts a timer. When the timer value is equal to the autoclose timeout value the control panel starts closing automatically the door.</td></tr>
<tr><td>Notes</td><td>If autoprogramming function is enabled, after the programming sequence, a 30 second autoclosing timeout default value is set.

There are several cases that the autoclosing timer is cancelled/restarted:
- When “stop” command is received.
- When the number of closing security auto tests retries expires.
- When the number of closing security inversions are reached.
- When an “open” command is received (in this case autoclosing timer is restarted)</td></tr>
</table>

7.7 Close by security contact function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P1A</td><td>Closing by SEC.CL</td><td>ON/OFF</td></tr>
<tr><td>P49</td><td>Time to close by SEC.CL</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The close by security contact function allows closing automatically the door after security contact has been activated (when car has already exited/entered).</td></tr>
<tr><td>Configuration</td><td>To enable the close by security contact function it is needed to set to ON the P1A configuration parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the “Close by SEC.CL ON/OFF” function to an option switch.

The P49 configuration parameter allows modifying the pause timer that is started after the door reaches the opened position and the security contact is activated. This parameter can take values from 0 seconds to several minutes. The units used for this parameter are seconds.</td></tr>
<tr><td>Operating</td><td>If the close by security contact function is enabled, when the security contact is activated during the opening maneuver or when the door is already open, it automatically starts closing the door from the opened position after the pause timer expires. This allows to automatically closing the door when a car has already exited or entered to the garage.</td></tr>
<tr><td>Notes</td><td>The close by security command is lost in several cases:

- When “stop” command is received.
- When the number of closing security auto tests retries expires.
- When the number of closing security inversions are reached.
- When an “open” command is received.</td></tr>
</table>

7.8 Deadman function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P07</td><td>Deadman</td><td>ON/OFF</td></tr>
<tr><td>P4F</td><td>Press.time to deadman</td><td>NUMERIC</td></tr>
<tr><td>P5E...P77</td><td>IN XX</td><td>INPUT</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The deadman function allows moving the door even securities are activated.</td></tr>
<tr><td>Configuration</td><td>To enable the deadman function it is needed to set to ON the P07 configuration parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the “Deadman ON/OFF” function to an option switch.

The P4F configuration parameter allows modifying the button pressing time (button or deadman transmitter) needed to enter to deadman mode if a security is active.

P5E to P77 parameters allow assigning an input value to every available control panel input. “Open deadman” and “Close deadman” input values can be assigned to these inputs. By using these inputs control panel enters directly to deadman mode.</td></tr>
<tr><td>Operating</td><td>There are four ways to enter to the deadman mode:

1 - Deadman mode enabled by P07 configuration parameter. Every “open” and “close” command (even by control panel button or deadman transmitter) will move the door in deadman without taking into account the security inputs status.

2 - It is possible to enter to deadman mode, in programming state, by pressing the open and close buttons in order to fix the door position before starting the programming sequence.

3 – Control panel enters to deadman mode if there is any input configured as “Open deadman” or “Close deadman” type and it is activated.</td></tr>
</table>

	4 - Control panel enters to deadman mode in case of user wants to move the door (by using an “open” of “close” command) and there is a security activated. It is needed to press the open or close button (even by using a deadman transmitter) at least the pressing time defined by the *P4F* configuration parameter. Meanwhile the open and close button is pressed the LED associated to the active security will flash in order to inform the user.
Notes	By security, normal transmitters can’t be used to enter to deadman mode. Only special deadman transmitters can be used. In deadman mode securities are not taken into account but stop command and mechanical limit switches signals have higher priority. Therefore is a stop command or a mechanical limit switch is detected during deadman mode the movement will stop.

7.9 No stop on opening function

Model	All
Associated parameters	<table><tr><th>*ID*</th><th>*Description*</th><th>*Type*</th></tr><tr><td>*P03*</td><td>*No stop on opening*</td><td>*ON/OFF*</td></tr></table>
Description	The no stop on opening function avoids stopping the opening maneuver if an “alternative” or “close” pushbutton is pressed.
Configuration	To enable the no stop on opening function it is needed to set to ON the *P03* configuration parameter by means of a VERSUS-PROG programming tool. It is also possible to enable or disable this function by setting the “No stop on opening ON/OFF” function to an option switch.
Operating	If this function is enabled when an “alternative” of “close” pushbbutton is pressed during the opening maneuver it is not taken into account. This function is normally used on neighboring communities to avoid closing the door if a neighbor is waiting while the door opens and a new neighbor arrives and presses again the transmitter.
Notes	Even no stop on opening function is enabled, “stop” commands or security commands are taken into account to ensure user security.

7.10 Radioband function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P28</td><td>RBAND mode</td><td>ON/OFF</td></tr>
<tr><td>P23</td><td>RBAND detected</td><td>ON/OFF</td></tr>
<tr><td>P2E</td><td>Deadman if RSEC virgin</td><td>ON/OFF</td></tr>
</table>
</td></tr>
<tr><td>Associated errors</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>Er19</td><td>Test closing error</td><td>Error</td></tr>
<tr><td>Er20</td><td>Test opening error</td><td>Error</td></tr>
<tr><td>Er30</td><td>RBAND not found</td><td>Error</td></tr>
<tr><td>Er31</td><td>RBAND not programmed</td><td>Error</td></tr>
<tr><td>Wr10</td><td>Closing security edge active</td><td>Warning</td></tr>
<tr><td>Wr11</td><td>Opening security edge active</td><td>Warning</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The Radioband function allows using the Radioband security system on the VERSUS control panels.</td></tr>
<tr><td>Configuration</td><td>System set-up: In order to use Radioband system on VERSUS control panels an RSEC/R receiver must be connected to the control panel on the EXPANSION connector. Moreover, before proceeding with the control panel programming process it is needed to program the Radioband transmitter to the RSEC/R receiver (see Radioband transmitter and RSEC/R receiver user instructions to learn how to perform this programming process).

Parameters: To enable the Radioband function it is needed to set to ON the P28 configuration parameter by means of a VERSUS-PROG programming tool.

The parameter P23 is a status configuration parameter and it is set to ON when during the programming maneuver sequence a Radioband system is detected (RSEC/R receiver is detected and Radioband transmitter has been programmed on the receiver).</td></tr>
<tr><td>Operating</td><td>After connecting the Radioband system for the first time the control panel detects the system and displays the Er31 error to inform the user that it is necessary to program the maneuver in order to store the Radioband configuration.</td></tr>
</table>

	In the opposite hand, if the maneuver has been already programmed when a Radioband system was connected and the RSEC/R receiver is not detected, *Er30* is displayed to inform the user that a Radioband system was previously programmed and now it is not detected. In this case there are two options: RSEC/R is connected again or control panel maneuver has to be programmed again. After setting-up the hardware, configured the parameters and programmed the maneuver sequence, the Radioband system is ready. The programmed Radioband transmitters will be taken into account during the normal operation as following: - Every time a maneuver is started the programmed Radioband transmitters are tested (autotest process is performed). In autotest process, RSEC/R tries to communicate via radio with the Radioband transmitter. The time needed to perform an autotest process goes from a few milliseconds to 12 seconds at maximum (every attempt takes about 3 seconds at maximum and the maximum number of attempts are 4). After the 12 seconds if no Radioband transmitter answer is received an autotest error occurs. *Er19* error for closing autotest and *Er20* error for opening autotest. - If during normal operation Radioband security activation is detected, control panel executes the security inversion maneuver and displays the *Wr10* or *Wr11* warning in order to inform user that activation has occurred (*Wr10* is due to a closing security edge activation and the *Wr11* is due to opening security edge activation). If Radioband system is used in closing maneuver it is also possible to inhibit the Radioband activation during a portion of the closing maneuver (the last 4cm). By using this function, it is not necessary to avoid pressing the closing edge during the maneuver programming sequence. Therefore it is possible to let the door completely closed with the security edge pressed or activated. To program or configure the Radioband inhibition zone it is necessary to use the same parameters that are used to define the inhibition zone for wired security edges (see chapter 7.15). If the configuration parameter *P2E* is active and the Radioband Transmitter has not yet been programmed into the receiver RSEC/R, the control panel will operate only in deadman mode. Likewise if you unsubscribe the Radioband transmitter to the receiver RSEC/R, the control panel will operate in deadman mode. It will stop working in this mode at the moment that another RadioBand transmitter is programmed again into the receiver RSEC/R.
Notes	For more information and details regarding the Radioband system please refer to the Radioband transmitter and RSEC/R user instructions.

7.11 Radiosens function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P29</td><td>RSENS mode</td><td>ON/OFF</td></tr>
<tr><td>P2A</td><td>RSENS detected</td><td>ON/OFF</td></tr>
<tr><td>P92</td><td>RSENS dynamic radio</td><td>ON/OFF</td></tr>
<tr><td>P53</td><td>RSENS inhibition margin</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Associated errors</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>Er19</td><td>Test closing error</td><td>Error</td></tr>
<tr><td>Er22</td><td>RSENS not found</td><td>Error</td></tr>
<tr><td>Er23</td><td>RSENS not programmed</td><td>Error</td></tr>
<tr><td>Er33</td><td>RSENS synch. error</td><td>Error</td></tr>
<tr><td>Er36</td><td>RSENS radio error</td><td>Error</td></tr>
<tr><td>Wr18</td><td>RSENS activation</td><td>Warning</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The Radiosens function allows using the Radiosens security system on the VERSUS control panels.</td></tr>
<tr><td>Configuration</td><td>System set-up: In order to use Radiosens system on VERSUS control panels an RSEC/R receiver must be connected to the control panel on the EXPANSION connector. Moreover, before proceeding with the control panel programming process it is needed to program the RSENS transmitter to the RSEC/R receiver (see RSENS transmitter and RSEC/R receiver user instructions to learn how to perform this programming process).

Parameters: To enable the Radiosens function it is needed to set to ON the P29 configuration parameter by means of a VERSUS-PROG programming tool.

The parameter P2A is a status configuration parameter and it is set to ON when during the programming maneuver sequence a Radiosens system is detected (RSEC/R receiver is detected and Radiosens transmitter has been programmed on the receiver).</td></tr>
</table>

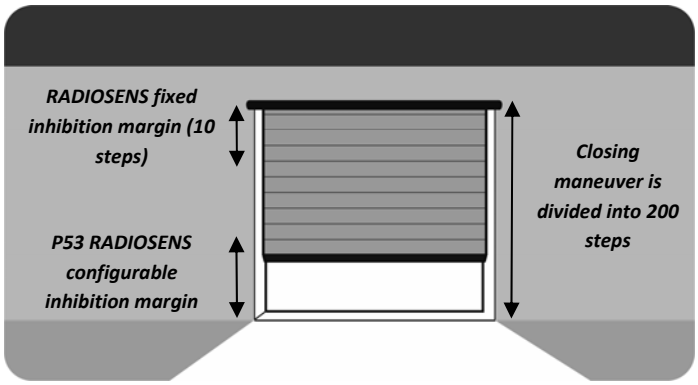
The *P92* parameter is used in order to activate the Radiosens dynamic radio function. This function allows to dynamically adjusting the RSENS transmitting radio power according to the radio link quality. If this function is enabled and the radio link quality is bad the RSENS transmitter battery can reduce its battery life faster.

As the Radiosens system is used as a wireless security system for closing maneuvers it is also possible to define an inhibition zone for the last centimeters of the maneuver. The inhibition zone is not compulsory for the Radiosens system as this system detects the door impact against the ground and the Radiosens sensor memorizes this impact. Afterwards the impact data will be taken into account during the normal operation. Even so if user wants to inhibit the last centimeters of the closing maneuver he can do it by configuring the *P53* parameter. This parameter can take values from 0 to 200. The closing maneuver is divided into 200 sections or portions, and the parameter defines the number of the portions where the Radiosens system will be not active. For example if the parameter takes the 10 value this means that the last 10 portions of the closing maneuver the Radiosens system will be inhibited. If we export this data to a 2-meter door this means that the last 10 centimeters of the closing maneuver won't take into account the Radiosens activation.

Moreover because of the uncontrolled vibrations that are detected when the motor starts closing the door, by default the Radiosens system is inhibited during the first 10 maneuver portions of the closing maneuver.

Besides being able to set the end zone of inhibition by parameter *P53*, it is possible to set it without the VERSUS-PROG programming tool during programming of the maneuver. If the Radiosens system is used, when the maneuver is programmed 2 opening-closing sequences are performed. The first sequence is performed by the user to program the travels of opening and closing. The second maneuver is carried out automatically so that the Radiosens system performs its measurements. It is during the closing sequence of the second maneuver when the user can set the closing inhibition zone for Radiosens system. Using the alternative button (START) of the control panel the user can specify the starting point of the inhibition zone during the closure. You can also use a transmitter configured as an alternative for this indication. If instead, the user takes no action during this automatically closing sequence, the inhibition zone will be set by default. The indication of the starting point of the inhibition zone by the alternative button (START) will only take effect when over 10% of the closing maneuver, in order to avoid total inhibition of the maneuver.

It is possible to check the inhibition zones by means of the RSENS transmitter. During the first 25 closing maneuvers, the RSENS transmitter red LED lights when the Radiosens is inhibited. Therefore the LED is ON during the first 10 maneuver portions and it is set to ON again when it enters to the last inhibition portions configured by using the *P53* parameter. After the 25 maneuvers are reached the LED doesn't lights again unless battery is removed and replaced again.



Operating	After connecting the "RSEC/R receiver + RSENS transmitter" system for the first time the control panel detects the system and displays the *Er23* error to inform the user that it is necessary to program the maneuver in order to store the Radiosens configuration. In case of using the Radiosens system the programming maneuver procedure is different to the normal procedure. Just after finishing the maneuver programming sequence, the control panel executes an automatic opening and closing maneuvers in order to let the Radiosens system perform its measures and calibrations that will be used during the normal operation. After these extra automatic maneuvers the control panel exits the programming state. In the opposite hand, if the maneuver has been already programmed when a Radiosens system was connected and the RSEC/R receiver is not detected, *Er22* is displayed to inform the user that a Radiosens system was previously programmed and now it is not detected. In this case there are two options: RSEC/R is connected again or control panel maneuver has to be programmed again. In case user modifies any configuration parameter related to the Radiosens system (i.e. *P92* or *P53*) the *Er33* error will be displayed. This error means that some configuration parameter has changed and it is needed to pass the new parameter values to the RSENS transmitter. Because of this is necessary to synchronize the RSENS transmitter to the RSEC/R receiver by programming again the transmitter to the receiver. After setting-up the hardware, configured the parameters and programmed the maneuver sequence the Radiosens system is ready. Therefore, the programmed RSENS transmitter will be taken into account during the normal operation. These are the operations that are performed during the normal operation: - Every time a closing maneuver is started the programmed RSENS transmitter is tested (autotest process is performed). In autotest process RSEC/R tries to communicate via radio with the RSENS transmitter. The time needed to perform an autotest process goes from a few milliseconds to 12 seconds at maximum (every attempt takes about 3 seconds at maximum and the maximum number of attempts are 4). After the 12 seconds if no RSENS transmitter answer is received an autotest error occurs. Because is a closing autotest *Er19* is displayed. - If during normal operation Radiosens security activation is detected control panel executes the opening security inversion maneuver and displays the *Wr18* warning in order to inform user that activation has occurred. During the normal operation or the system installation the *Er36* error can be shown. The main meaning of this error is that the radio link between the RSEC/R receiver and the RSENS transmitter has been lost. In addition to the shown error, the RSEC/R receiver will issue 6 beeps.

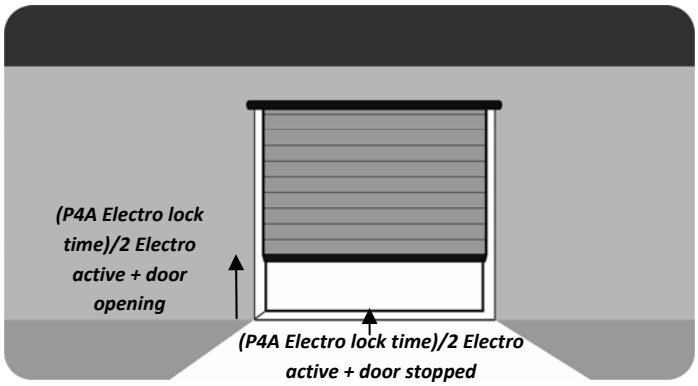
	There are several reasons that produce this error. The more evident reason is that the RSENS transmitter batteries are empty and they need to be replaced. But in other cases this error means radio interferences or a weak radio link. In these other cases the installation must be analyzed and some basic rules must be checked: - The control panel must not be not far away from the RSENS transmitter (10 meter maximum). - Metallic parts are not allowed between the control panel and the RSENS transmitter. - Some other radio sources (mainly those that are working on the same 868MHz band) can interfere to the Radiosens radio communication.
Notes	Pedestrian mode is not allowed when Radiosens system is used. Opening inversion maneuvers are not allowed when Radiosens system is used. Every closing maneuver must start from the OPENED point and it has to be executed the whole closing maneuver. Control panel sequence must be programmed again in case of any mechanical alteration or modification (installation maintenance, knock on the door, etc.). Even though a mechanical modification or alteration causes non desirable Radiosens detections and inversions it is possible to close the door by means of Deadman mode. For more information and details regarding the Radiosens system please refer to the RSENS transmitter and RSEC/R user instructions.

7.12 Electro lock and reverse strike at open functions

Model	All
Associated parameters	

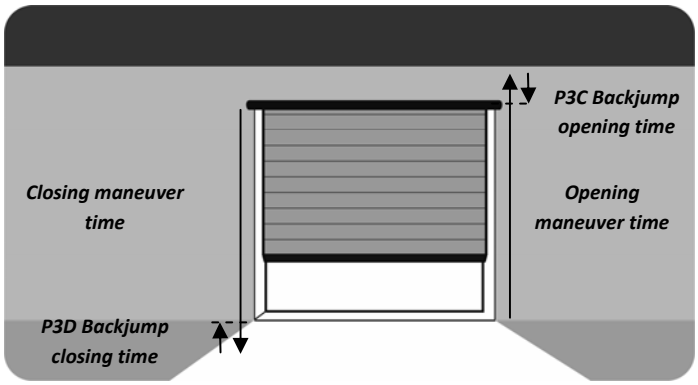
ID	***Description***	***Type***
P4A	*Electro lock time*	*NUMERIC*
P78...P7C	*OUT XX*	*OUTPUT*
PA1…PB0	*(TL-CARD-V) OUT XXX*	*OUTPUT*
P27	*Maximum speed close*	*ON/OFF*
PBD	*Reverse strike at open*	*ON/OFF*
P54…P5C	*Switch X*	*SELECTOR*

Description	The Electro lock function allows controlling an electro lock by means of a control panel output.

Configuration	To enable the electro lock function it is needed to assign the "Electro lock "output value to a control panel output. *P78* to *P7C* configuration parameters allow assigning an output value to every available control panel outputs by means of a VERSUS-PROG programming tool. *PA1* to *PB0* configuration parameters allow assigning an output value to expanded outputs that are available if TL-CARD-V is connected to the control panel. Electro lock function is enabled if one or more outputs are configured as "Electro lock" outputs. If electro lock function has to be disabled, "Electro lock" outputs must change its value. Electro lock timer is configured by means of the *P4A* parameter. This parameter can take values from 0 seconds to several seconds. The units used for this parameter are seconds. In control panels models that allow regulation of speed and slow speed, there is the possibility of activating the closing at maximum speed function by setting *P27 configuration parameter*. The closing at maximum speed makes a closing operation of 2 seconds after the slow speed part has finished, ensuring proper closure of the door and that the electrolock closes properly. Finally, the reverse strike at open function is a function normally associated to the electrolock function. To enable this function, use the PBD configuration parameter. There is also possible to control this function by means of assigning this function to one of the selector switches (P54 to *P5C* parameters).
Operating	After electro lock function is enabled, the control panel executes the electro lock sequence every time an opening maneuver is started. The electro lock time is divided in two parts: the first half time before the opening maneuver and the second half time once the opening maneuver has started.  The reverse strike at open function is done from the position of door CLOSED. If this function is activated once the open command has been received, the door will close during a little period of time to be able to liberate the door and then it will begin the opening sequence. If at the same time, the electrolock function is activated, this will be kept active during the liberation time of the door.
Notes	Electro lock can be controlled by means of a free voltage output or a voltage output. In case of the TL-CARD-V all its four outputs are free voltage but in case of the control panel outputs it depends on the control panel model. Some control panels have 12Vdc outputs and other control panel models have 12/24Vdc configurable outputs. If voltage outputs are used electro lock power consumption has to be carefully taken into account. Control panel output maximum current depends on the control panel

	model. If control panel output maximum current is not enough some control panel models have an auxiliary input (IN AUX) in order to supply extra current to the voltage outputs. In this case an extra power supply must be used and connected to this auxiliary input. If free voltage output is used an external power supply is needed.

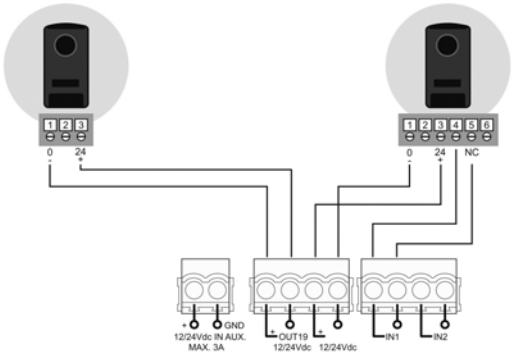
7.13 Backjump function

Model	All
Associated parameters	<table><tr><th>*ID*</th><th>*Description*</th><th>*Type*</th></tr><tr><td>*P0F*</td><td>*Backjump opening enable*</td><td>*ON/OFF*</td></tr><tr><td>*P10*</td><td>*Backjump closing enable*</td><td>*ON/OFF*</td></tr><tr><td>*P3C*</td><td>*Backjump opening time*</td><td>*NUMERIC*</td></tr><tr><td>*P3D*</td><td>*Backjump closing time*</td><td>*NUMERIC*</td></tr></table>
Description	The backjump function allows mechanically release the motor after the control panel reaches the OPENED and CLOSE maneuver reference points.
Configuration	To enable the backjump function it is needed to set the *P0F* configuration parameter to ON in case of opening backjump or set the *P10* configuration parameter to ON in case of closing backjump by means of a VERSUS-PROG programming tool. . Backjump opening and closing timers are configured by means of the *P3C* and *P3D* configuration parameters. These parameters can take values from 0 seconds to several seconds. The units used for this parameter are seconds.
Operating	After backjump function is enabled, the control panel executes the backjump sequence every time an opening or a closing maneuver finishes on the OPENED or CLOSED reference points. After the door finishes the opening or closing maneuver, it changes the movement direction during the configured backjump period in order to release the motor. 

7.14 Security contact autotest function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P5E...P77</td><td>IN XX</td><td>INPUT</td></tr>
<tr><td>P78...P7C</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>P54...P5C</td><td>Switch X</td><td>SWITCH</td></tr>
<tr><td>P48</td><td>Autotest max attempt</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Associated errors</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>Er19</td><td>Test closing error</td><td>Error</td></tr>
<tr><td>Er20</td><td>Test opening error</td><td>Error</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The security contact autotest function allows automatically test the connected security contacts before every opening and closing maneuvers to ensure that they are correctly working.</td></tr>
<tr><td>Configuration</td><td>System set-up: In order to use security contact autotest function on VERSUS control panels the security contact must be supplied by control panel voltage output. Depending on the control panel model this output can be 12Vdc or configurable 12/24Vdc. The security contact output it must be connected to the corresponding control panel input.

Parameters: The output that supplies the security contact must be configured as a “Autotest signal” if the security contact is used for closing and opening maneuvers. This configuration can be done by means of P78 to P7C configuration parameters by using a VERSUS-PROG programming tool. For the security contact signal input it must be configured as “SEC.CL autotest” in case of closing maneuver or “SEC.OP autotest” in case of opening maneuvers. This configuration can be done by means of P5E to P77 configuration parameters.

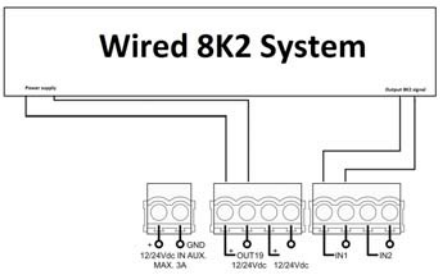
 
</td></tr>
</table>

	When the control panel output and an input are correctly configured to test the security contact, the autotest sequence is automatically executed. If user wants to enable or disable the autotest sequence, a switch can be configured as “SEC.CL test” or “SEC.OP test”. This configuration can be done by means of *P54* to *P5C* configuration parameters. If autotest sequence fails, the control panel can try to execute again the autotest sequence. The number of maximum number of tries can be configured by means of the *P48* configuration parameter. This parameter can take values from 0 to 200.
Operating	After security contact autotest function is configured and enabled, the control panel executes the autotest sequence every time an opening or a closing maneuver starts. These are the autotest sequence steps: - In the first step, the control panel removes the power supply of the security contact by using the configured test output. - In the second step, the control panel checks that the test input has no signal. This means that the security contact has released its output. - In the third step, the power supply of the security contact is recovered. - Finally in the fourth step it checks that the test input recovers the security signal. If any of these steps fail, the autotest sequence is not OK. In case there are autotest attempts, it repeats again the sequence until the maximum number of attempts are reached. Finally if the number of maximum number of attempts is reached autotest error is displayed. In case of opening autotest error *Er20* is displayed and in case of closing autotest error *Er19* is displayed. Every autotest sequence can take at maximum 4 seconds. Therefore the autotest maximum period depends on the number of configured attempts.
Notes	Even an autotest error happens it is possible to open/close the door by means of Deadman mode.

7.15 Security edge autotest function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P5E...P77</td><td>IN XX</td><td>INPUT</td></tr>
<tr><td>P78...P7C</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>P54...P5C</td><td>Switch X</td><td>SWITCH</td></tr>
<tr><td>P48</td><td>Autotest max attempt</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Associated errors</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>Er12</td><td>Test edge closing error</td><td>Error</td></tr>
<tr><td>Er13</td><td>Test edge opening error</td><td>Error</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The security edge autotest function allows automatically test the 8K2 wired security edges that allow autotest (i.e. Radioband external receiver with 8K2 output). The autotest is performed before every opening and closing maneuvers to ensure that they are correctly working.</td></tr>
<tr><td>Configuration</td><td>System set-up: In order to use security contact autotest function on VERSUS control panels the wired security edge must be supplied by control panel voltage output. Depending on the control panel model this output can be 12Vdc or configurable 12/24Vdc. Regarding the wired security edge output it must be connected to a control panel.

Parameters: The output that supplies the security edge must be configured as a “Autotest signal” if the security wired edge is used for closing or opening maneuvers. This configuration can be done by means of P78 to P7C configuration parameters by using a VERSUS-PROG programming tool. In case of security wired edge signal input it must be configured as “S.EDGE.CL autotest” in case of closing maneuver or “S.EDGE.OP autotest” in case of opening maneuvers. This configuration can be done by means of P5E to P77 configuration parameters.

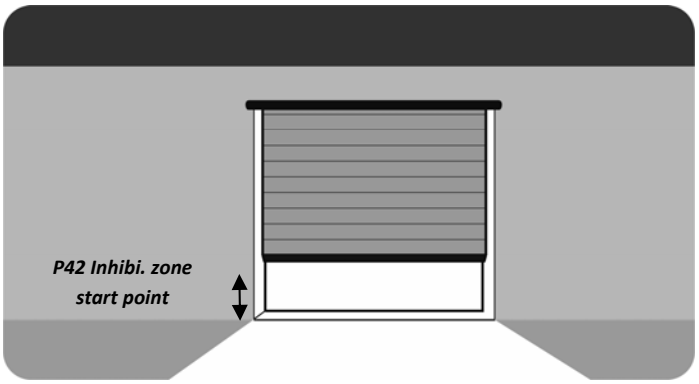
 
</td></tr>
</table>

	In case that a control panel output and an input are correctly configured to test the security wired edge, the autotest sequence is automatically executed. If user wants to enable or disable the autotest sequence a switch can be configured as “SEC.CL test” or “SEC.OP test” in order to decide if autotest sequence is executed or not. This configuration can be done by means of *P54* to *P5C* configuration parameters. If autotest sequence fails control panel can try to execute again the autotest sequence. The number of maximum number of tries can be configured by means of the *P48* configuration parameter. This parameter can take values from 0 to 200.
Operating	After security wired edge autotest function is configured and enabled, the control panel executes the autotest sequence every time an opening or a closing maneuver starts. These are the autotest sequence steps: - In the first step the control panel removes the power supply of the security wired edge by using the configured test output. - In the second step the control panel checks that the test input has no signal. This means that the security wired edge has released its output. - In the third step is recovers the power supply of the security wired edge. - Finally in the fourth step it checks that the test input recovers the security signal. If any of these steps fail the autotest sequence is not OK. In case there are autotest attempts it repeats again the sequence until the maximum number of attempts are reached. Finally if the number of maximum number of attempts is reached autotest error is displayed. In case of opening autotest error *Er13* is displayed and in case of closing autotest error *Er12* is displayed. Every autotest sequence can take at maximum 4 seconds. Therefore the autotest maximum period depends on the number of configured attempts.
Notes	Even an autotest error happens it is possible to open/close the door by means of Deadman mode.

7.16 Closing security wired edge or Radioband inhibition function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P06</td><td>Inhib. 4cm S.EDGE.CL</td><td>ON/OFF</td></tr>
<tr><td>P42</td><td>Inhib. zone start point</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The security edge inhibition function allows inhibit the closing security edge activation during the last closing maneuver centimeters. This function is common for wired 8K2 or optical security edges and for Radioband system.</td></tr>
<tr><td>Configuration</td><td>To enable the closing edge inhibition function it is needed to set the P06 configuration parameter to ON by means of a VERSUS-PROG programming tool.

The inhibition zone is the last centimeters of the closing maneuver and it can be configured by means of the P43 configuration parameter. This parameter is a position parameter and the units that are used depend on the time or Hall mode configuration. If the control panel is working on the time mode seconds are used as units and the inhibition zone can take values from 0 to 180 seconds. On the other hand, if control panel is working on the Hall mode pulses are used as units and the inhibition zone can take values from 0 to 18000 pulses. This inhibition zone value is common for normal 8K2 wired edge, optical wired edge or Radioband controlled edge.

 
</td></tr>
<tr><td>Operating</td><td>After closing edge inhibition function is configured and enabled, in normal operation when there is security activation due to an 8K2 closing edge, optical closing edge or closing Radioband it is not taking into account and the door will continue the closing maneuver.</td></tr>
<tr><td>Notes</td><td>VERSUS control panels are ready to directly control WITT (http://www.witt-sensoric.com/) and FRABA (http://www.fraba.com/) wired optical edges.</td></tr>
</table>

7.17 Closing security contact inhibition function

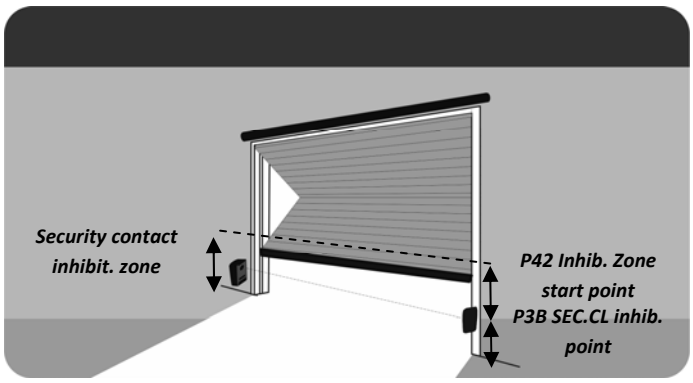
<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P08</td><td>SEC.CL inhibition</td><td>ON/OFF</td></tr>
<tr><td>P18</td><td>SEC.CL programmed</td><td>ON/OFF</td></tr>
<tr><td>P3B</td><td>SEC.CL inhib. point</td><td>NUMERIC</td></tr>
<tr><td>P42</td><td>Inhib. zone start point</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The closing security contact function allows inhibit the closing security contact for a specific zone of the closing maneuver. This function is used in 2-leaf up and over doors that are installed in such way that the door passes in front of the closing security contact when it executes the closing maneuver.</td></tr>
<tr><td>Configuration</td><td>To enable the closing security contact inhibition function it is needed to set the P08 configuration parameter to ON by means of a VERSUS-PROG programming tool.

After enabling this function the control panel sequence must be programmed in order to detect the security contact activation (activated by the door) and this activation defines the security contact position.

If the security contact is activated during the programming of the closing maneuver P18 configuration status parameter is set to ON.

The inhibition zone is defined by the sum of the following two parameters:

- The programmed security contact position is defined by the configuration status parameter P3B. This parameter is stored during programming sequence if security contact is detected. This is a position parameter and its units are seconds or pulses depending on the working mode (time or Hall).
- The inhibition margin is defined by the configurable parameter P42. This parameter is the same that is used in order to define the security edge inhibition zone. It is a position parameter; therefore its units are seconds or pulses depending on the working mode (time or Hall). This margin is added to the previous security contact position to get as result the whole inhibition zone.</td></tr>
</table>

	
Operating	After closing security contact inhibition function is configured and enabled, in normal operation when door is closing when it enters to the security contact inhibition zone any security contact activation doesn't produces an inversion maneuver.
Notes	Any manipulation or alteration of the closing security contact installation that can modify its position or presence implies a new control panel programming sequence.

7.18 Automatic 8K2/optical security edge detection function

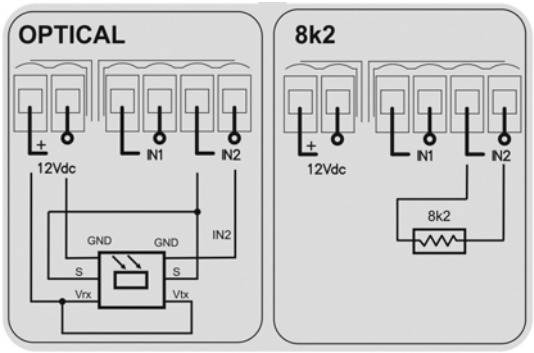
Model	All
Associated parameters	

ID	*Description*	*Type*
P5E...P60	*IN X*	*INPUT*
P29...P31 *PDC,PDD*	*Autodetect OptoEdge INX*	*ON/OFF*

Associated errors

ID	*Description*	*Type*
Wr10	*Security edge closing active*	*Warning*
Wr11	*Security edge opening active*	*Warning*
Wr37	*S. Optical edge opening active*	*Warning*
Wr38	*S.Optical edge closing active*	*Warning*

Description	The security edge autotest function allows automatically test the 8K2 wired security edges (i.e. Radioband external receiver with 8K2 output). The autotest is performed before every opening and closing maneuvers to ensure that they are correctly working.

Configuration	***System set-up:*** VERSUS control panels have 3 available inputs (IN1 to IN3) or five i the M22 model (IN1 to IN3 and IN8 and IN9) that can automatically detect 8K2 or optical edge signal. Before configuring the parameters the selected edge has to be connected to the control panel. In case of an 8K2 edge it can be directly connected but in case of optical edge power supply has to be provided. Depending on the control panel 12Vdc or 12/24Vdc outputs are available. Usually a fixed voltage output is used to supply the optical edge. It is also possible to set a configurable output as fixed output by setting its value to "Always ON". VERSUS control panels are ready to directly control WITT (http://www.witt-sensoric.com/) and FRABA (http://www.fraba.com/) wired optical edges. Please follow manufacturer datasheet in order to connect the optical edge to the VERSUS control panel.  ***Parameters:*** To configure the 3 available inputs as automatic 8K2/optical inputs "AUTOEDGE.CL" or "AUTOEDGE.OP" input values have to be set depending if the edge has to actuate during the opening or the closing maneuver. This configuration is done by using *P5E* to *P60* configuration parameters by means of a VERSUS-PROG programming tool. After the edge is connected and the input is configured the 8K2 or optical mode detection is performed during the normal control panel programming sequence. After programming, this sequence detection result can be checked by using the *P29* to *P31* status parameters. If the associated input parameter is set to ON it means that an optical edge has been detected otherwise a 8K2 edge is taken into account.
Operating	After 8K2/optical security edge automatic input function is configured in normal operation it takes into account its activation. When the edge is activated, the control panes executes the security inversion maneuver. If the active edge is the closing edge *Wr10* or *Wr38* warnings are displayed (8K2 or optical edge) and in this case the inversion maneuver opens the whole door. If the active edge is the opening edge *Wr11* or *Wr37* warnings are displayed (8K2 or optical edge) and in this case the inversion maneuver closes during 2 seconds.
Notes	Any change of the 8K2/optical edge mode (from optical to 8K2 or vice versa) implies a new control panel programming sequence in order to detect the new edge mode. Even the edge is active it is possible to open/close the door by means of Deadman mode.

7.19 Flash and pre-flash function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P91</td><td>Pre-Flash option</td><td>ON/OFF</td></tr>
<tr><td>P78...P7C</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>P54...P5C</td><td>Switch X</td><td>SWITCH</td></tr>
<tr><td>P4C</td><td>Flash frequency</td><td>NUMERIC</td></tr>
<tr><td>P4D</td><td>Pre-Flash time</td><td>NUMERIC</td></tr>
<tr><td>PDF</td><td>Flash in Autoclose</td><td>ON/OFF</td></tr>
<tr><td>PDE</td><td>Pre-flash function mode</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The flash and pre-flash function allows controlling a warning light.</td></tr>
<tr><td>Configuration</td><td>To enable the flash it is needed to configure any output to “Flash” value. P78 to P7C configuration parameters allow to assign the “Flash” output to any available control panel output by means of a VERSUS-PROG programming tool. In addition any TL-CARD-V output can be also programmed as “Flash” output by means of PA1 to PB0 configuration parameters.

The flashing frequency can be configured by using the P4C configuration parameter. This flashing frequency can take values from 0.1 to 5 seconds.

Regarding pre-flash function if it has to be enabled P91 configuration parameter has to be set to ON. If pre-flash function needs to be controlled by user without VERSUS-PROG programming tools “Pre-flash ON/OFF” function can be assigned to any switch. To configure the switch values P54 to P5C configuration parameters can be used.

Pre-flash time value can be configured by using the P4D configuration parameter. This parameter can take values from 0 to 60 seconds.

The pre-flash function takes into account the pre-flash mode that is configured using the PDE parameter. The operating modes are:

Value 0: Pre-flash before the opening and closing of the door.

Value 1: Pre-flash just before the opening.

Value 2: Pre-flash just before closing.

There is a flash function during the autoclose time that is configurable throught the configuration parameter PDF. If it is at on, flash is done during all the autoclose time.</td></tr>
<tr><td>Operating</td><td>After pre-flash/flash function is configured in normal operation it takes into account its control. If pre-flash is enabled it executes flash during the configured time before start an opening/closing sequence. After the door starts moving it keep flashing until the door stops, except when the flash during autoclose time is active during the closing maneuver.</td></tr>
</table>

Notes	In VERSUS control panels, flash function can be assigned to any type of output: free voltage output, voltage output, TL-CARD-V output and front light output.

7.20 Anti-intrusive function

Model	All
Associated parameters	<table><tr><th>*ID*</th><th>*Description*</th><th>*Type*</th></tr><tr><td>*P78…P90*</td><td>*OUT XX*</td><td>*OUTPUT*</td></tr><tr><td>*PA1…PB0*</td><td>*(TL-CARD-V) OUT XXX*</td><td>*OUTPUT*</td></tr></table>
Description	The anti-intrusive function allows detecting a non-desired entrance to the garage (thief, etc.). This function uses the closing security contact as a sensor to detect this non-desired entrance.
Configuration	To enable the anti-intrusive function it is needed to configure any of the available outputs as “Intrusive” by means a VERSUS-PROG programming tool. The *P78* to *P90* configuration parameters are used to configure the control panel outputs and the *PA1* to *PB0* configuration parameter are used to configure the TL-CARD-V extra outputs. The configured “Intrusive” outputs will be activated in case of non-desired entrance detection. Therefore these outputs can be used to activate any kind of alarm system. The output is “normally opened” and it changes to “normally closed” when it is activated. It keeps active until the door is completely closed. To use the anti-intrusive function, a closing security contact input is compulsory as the closing security contact is used as presence sensor. Therefore it is needed to configure any of the available inputs as closing security contact input.
Operating	If any output is configured as “Intrusive” the control panel checks the closing security contact activations. If an opening maneuver starts in order to open the garage door, the control panel checks the number of closing security contact activations. The first activation is understood as the user enters to its garage but the second activation means a non-desired entrance. If this second activation is detected before the door returns to the CLOSED status “Intrusive” outputs are activated in order to inform about a non-desired entrance.

7.21 Alarm function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P78…P90</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>P0A</td><td>Closing limit switch installed</td><td>ON/OFF</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The alarm function allows detecting a non-desired opening maneuver of the garage door (thief, etc.). This function uses the closing mechanical limit switch as a sensor to detect this non-desired opening maneuver.</td></tr>
<tr><td>Configuration</td><td>To enable the alarm function it is needed to configure any of the available outputs as “Alarm” by means a VERSUS-PROG programming tool. The P78 to P90 configuration parameters are used to configure the control panel outputs and the PA1 to PB0 configuration parameter are used to configure the TL-CARD-V extra outputs.

The configured “Alarm” outputs will be activated in case of non-desired opening maneuver. Therefore these outputs can be used to activate any kind of alarm system. The output is “normally opened” and it changes to “normally closed” when it is activated. It keeps active until the alarm condition is resolved.

To use the alarm function a closing mechanical limit switch input is compulsory as the mechanical limit switch is used as security sensor. Therefore it is needed to configure any of the available inputs as mechanical limit switch input.

In order to use the closing mechanical limit switch, it has to be detected on the control panel programming sequence. After programming the sequence it is possible to check the detection result by using the status configuration parameter P0A. If this parameter is set to ON it means that the closing limit switch has been detected.</td></tr>
<tr><td>Operating</td><td>If any output is configured as “Alarm” and a closing mechanical limit switch has been detected in programming sequence, the control panel checks the closing mechanical limit switch when the door is on the CLOSED position.

If manual or forced openings maneuver starts (motor is not activated by the control panel) the closing mechanical limit switch will be released. In this case as the control panel is still on the CLOSED position it detects the closing mechanical limit switch release and it activates the “Alarm” outputs to inform about a non-desired maneuver.</td></tr>
</table>

7.22 Panic function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P78…P90</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>P50</td><td>Panic active signal</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The panic function allows activating a special output by pressing during several seconds a transmitter button. This transmitter has to be programmed on any of the 4 available Motion channels of the control panel integrated receiver.

This can be used to inform a dangerous or emergency situation by means of a transmitter (thief, medical emergency, etc.)</td></tr>
<tr><td>Configuration</td><td>To enable the panic function it is needed to configure any of the available outputs as “Panic” by means a VERSUS-PROG programming tool. The P78 to P90 configuration parameters are used to configure the control panel outputs and the PA1 to PB0 configuration parameter are used to configure the TL-CARD-V extra outputs.

The configured “Panic” outputs will be activated (pulse output) in case of transmitter long activation is detected. Therefore these outputs can be used to activate any kind of alarm system. The output is “normally opened” and it changes to “normally closed” when it is activated. It keeps active for a short period of time (pulse).

To configure the time that is needed to press the transmitter button to activate the panic signal, P50 parameter can be used. This parameter can take values from 0 to 20 seconds.</td></tr>
<tr><td>Operating</td><td>If any output is configured as “Panic” and a transmitter is programmed on any of the 4 available Motion channels, the control panel checks the holding time of the transmitter button.

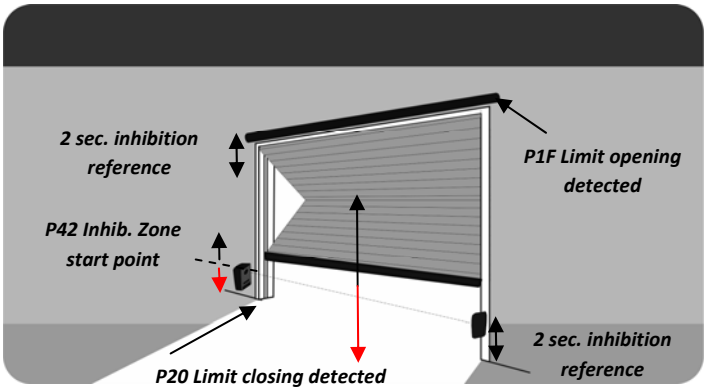
If this time is larger than the configured time it activates the “Panic” outputs to inform about a dangerous situation.</td></tr>
<tr><td>Notes</td><td>As this function uses the transmitter button holding time to activate an emergency output, radio interferences have to be taken into account, because they can affect to the “transmitter – control panel” communication.</td></tr>
</table>

7.23 Hydraulic mode function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P5E...P60</td><td>IN X</td><td>INPUT</td></tr>
<tr><td>P1F</td><td>Limit opening detected</td><td>ON/OFF</td></tr>
<tr><td>P20</td><td>Limit closing detected</td><td>ON/OFF</td></tr>
<tr><td>P54...P5C</td><td>Switch X</td><td>SWITCH</td></tr>
<tr><td>P42</td><td>Inhib. zone start point</td><td>NUMERIC</td></tr>
<tr><td>P2D</td><td>Extratime hydraulic mode</td><td>NUMERIC</td></tr>
<tr><td>PD3</td><td>Limit opening detected for M2</td><td>ON/OFF</td></tr>
<tr><td>PD4</td><td>Limit closing detected for M2</td><td>ON/OFF</td></tr>
</table>
</td></tr>
<tr><td>Associated errors</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>Er19</td><td>Test closing error</td><td>Error</td></tr>
<tr><td>Er20</td><td>Test opening error</td><td>Error</td></tr>
<tr><td>Wr40</td><td>Pressure switch active</td><td>Warning</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The hydraulic mode function allows controlling a hydraulic motor that has a pressure switch output signal.</td></tr>
<tr><td>Configuration</td><td>To enable the hydraulic mode function it is needed to configure any of the available inputs as “Pressure switch” by means a VERSUS-PROG programming tool. The P5E to P60 configuration parameters are used to configure the control panel inputs.

There are two cases where the pressure switch is activated: when there is any kind of obstacle that doesn’t allow the motor movement and when the motor starts moving.

- The first case is very useful in order to use the pressure switch as a security signal and also to use it to detect OPEN and CLOSE references during programming sequence process. When control panel maneuvers are programmed, if user reaches the top and bottom door limits and the hydraulic motor presses for an extratime, that is configured by P2D parameter, in these points, OPEN and CLOSE references are detected. Therefore in normal operation these references will be taken into account. To check if these references have been detected P1F and P20 status configuration parameters can be used. The ON value means that the reference has been detected. In case of 2 motors model (M22), the detection of the second motor is performed by PD3 and PD4 parameters.
- The second case is very useful in order to test pressure switch signal. If a pressure switch signal pulse is detected every time that the motor starts moving, this signal can be checked to perform the pressure switch autotest. In order to define the zone where this activation is possible and to inhibit the pressure switch security signal P42 parameter is used. Therefore every time a maneuver starts during the time configured by P42 pressure switch is inhibited and if test is enabled it checks that it is active during a short period of time. To enable or disable the pressure switch test it is necessary to assign the “Pressure switch test ON/OFF” function on any of the switches. This configuration can be done by using the P54 to P5C configuration parameters. If none switch is configured autotest is enabled by default.</td></tr>
</table>

Operating	If any input is configured as “Pressure switch”, the control panel is working on hydraulic mode. In this mode is always using Time mode by default. Hall mode is not allowed in hydraulic mode. In normal operation, the pressure switch signal is used as security signal if it is not inhibited. The signal is inhibited the first seconds of the maneuver. This time is the configured inhibition time and during this time if the pressure switch test is enabled it checks its activation. In order to inform the user that the pressure switch signal is inhibited the STOP/ERROR control panel red LED flashes. After leaving this inhibition zone the pressure switch is used as a security signal and if there is any activation control panel executes the security inversion maneuvers. It is possible to inhibit the pressure signal during the entire opening operation by assigning this function to a selector with parameters *P54* to *P5C*. In addition if any reference has been programmed by using the pressure switch signal (OPENED or CLOSED), the security signal is also inhibited 2 seconds before reaching the reference point detection. In this case the STOP/ERROR control panel red LED it also flashes to inform the user that it is inhibited in order to detect the OPENED or CLOSED reference. Once reached the reference and to ensure proper closing or opening of the door, the door continue closing / opening for the extra time parameter set by *P2D*.  If pressure switch test is enabled and there is no signal activation during the inhibition zone, test fails and *Er19* error is displayed in case of closing maneuver test and *Er20* error is displayed in case of opening maneuver test. During normal operation any pressure switch activation that results into a security maneuver, displays the *Wr40* warning in order to inform the user that a pressure switch security signal has been detected.
Notes	Slow speed mode is not allowed if hydraulic motors are used. If due to maintenance it is necessary to repair the hydraulic motor it is possible to temporally replace it by a electromechanical motor. In this case pressure switch test has to be disabled if it is enabled and the pressure switch input can be replaced by a normally closed contact (bridge). If hydraulic motor is used and door is in OPENED or CLOSED position for a long period of time it is highly recommended to enable the “Recharge maneuver” function in order to keep the door correctly opened or closed (see 7.24).

7.24 Recharge maneuver function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>PB6</td><td>Recharge maneuver</td><td>ON/OFF</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The recharge maneuver function allows refreshing the CLOSED and OPENED position and ensures that the door is correctly opened and closed.</td></tr>
<tr><td>Configuration</td><td>To enable the recharge maneuver function it is needed to set to ON the PB6 configuration parameter by means a VERSUS-PROG programming tool.</td></tr>
<tr><td>Operating</td><td>If recharge maneuver is enabled the control panel starts a 1 hour timer every time the door enters to CLOSED or OPENED position. After this timer finishes the control panel executes a 3 seconds opening maneuver in case of OPENED position or a 3 seconds closing maneuver in case of CLOSED position. This maneuver is executed in order to correctly keep the door closed or opened. After these 3 seconds maneuver the control panel starts again a 1 hour timer in order to refresh again the position after this timer expires.

If a normal opening or closing maneuver is executed the 1 hour timer is interrupted and it won’t be started again until the door enters to CLOSED or OPENED position.</td></tr>
</table>

7.25 Password blocking function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>PB1</td><td>Block ON/OFF by password</td><td>ON/OFF</td></tr>
<tr><td>PB4</td><td>Current blockage status</td><td>ON/OFF</td></tr>
<tr><td>PB2</td><td>Password value</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The password blocking function allows protecting control panel configuration by means of a password.</td></tr>
<tr><td>Configuration</td><td>To enable the password blocking function it is needed to set to ON the PB1 configuration parameter by means a VERSUS-PROG programming tool.

The password value is set using the PB2 configuration parameter that can take values from 0000 to 9999 (0000 value is set as default).

The status configuration parameter PB4 allows seeing if the control panel is currently blocked.</td></tr>
<tr><td>Operating</td><td>If password blocking function is enabled, configured password value is requested if user wants to modify control panel configuration. The password value is requested by VERSUS-PROG programming tools when user tries to modify configuration parameters.

If password is correctly introduced control panel is unblocked and user can change its configuration. After 2 minutes of no user activity control panel is blocked and password needs to be entered again if configuration needs to be changed.</td></tr>
<tr><td>Notes</td><td>Option switches changes are not taken into account if control panel is blocked by password. To take into account switches values password must be introduced by means of any VERSUS-PROG programming tool.

There is no way to recover or reset the password value, therefore password value lose implies a control panel repairing process.

For more information and details regarding the password introduction process please refer to the VERSUS-PROG programming tools user instructions.</td></tr>
</table>

7.26 Traffic control function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P5E…P60</td><td>IN X</td><td>INPUT</td></tr>
<tr><td>P78…P90</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>PB2</td><td>Traffic control mode</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The traffic control function allows managing the entry and exit of vehicles to neighboring communities where there is a single gateway. The control is done through 2 traffic lights with red and green traffic lights being installed one on the outside and one on the inside of the building.</td></tr>
<tr><td>Configuration</td><td>To enable this function, it is not necessary to activate any parameter. Just need to configure 4 outputs to control the 4 traffic lights (green inside, red inside, red outside and green outside). If you want to control the traffic lights by the direct outputs of the control panel, the configuration is required by P78 to P90 parameters. If instead you want to control the lights via a TL-CARD-V, the configuration is required by the parameters PA1 to PB0.

To perform a traffic control is necessary to set up inputs like "Start", "Open", "Open outside", "Start pedestrian" or "Open pedestrian." To perform this, the configuration parameters P5E to P60 are used.

By PB2 configuration parameter can be chosen the traffic control mode. Depending on how the mode is configured, the traffic lights are activated or deactivated in certain states of the door in a different way.</td></tr>
<tr><td>Operating</td><td>- JCM traffic control mode (value 0): In this mode, all traffic lights remain off when the door is closed. During the opening operation red lights come on inside and outside. Once the door is open the green light is lit inside or outside depending on whether the opening is performed from inside or outside the building. In this mode radio commands or wiring switch commands are interpreted as "Start", "Open", "Open pedestrian" and "Start pedestrian" as inside activation commands. So if you receive one of these commands when the door is open, the green inside light comes on and the red outside light remains on. On the contrary in this way wiring switch or radio commands like "Open outside", is considered as outside activation commands. If you receive such a command once the door is open, the green light is lit outside and red inside light remains on. If it is necessary within a command by radio or wiring switch commands can be configured as an input radio channel type or input terminal "Open outside."</td></tr>
</table>

7.27 Error and warning display function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P24</td><td>Error info displayed</td><td>ON/OFF</td></tr>
<tr><td>P80</td><td>Panel last error</td><td>NUMERIC</td></tr>
<tr><td>P9A</td><td>Panel last problem</td><td>NUMERIC</td></tr>
<tr><td>P9B</td><td>Panel last warning</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The error and warning display function allows expanding the displayed error information.</td></tr>
<tr><td>Configuration</td><td>To enable the error and warning display function it is needed to set to ON the P24 configuration parameter by means a VERSUS-PROG programming tool.

Last main active error can be checked by means of the P80 status configuration parameter. Last normal active error or problem can be checked by means of the P9A status configuration parameter. Finally, last active warning can be checked by means of the P9B status configuration parameter.</td></tr>
<tr><td>Operating</td><td>By default control panel reports a limited list of errors. These errors are those that are critical or those that inform about a security malfunction.

If user wants to expand the error information in order to see normal errors or warnings, error and warning function has to be enabled.

If no VERSUS-PROG programming tool is used the only way to know that there is an active error or warning is taking a look to the control panel STOP/ERROR red LED. If the LED is ON it means that there is an active error or warning. If error and warning display function is disabled only critical errors will be informed.

To know the active error or warning value it is necessary to use a VERSUS-PROG programming tool.</td></tr>
<tr><td>Notes</td><td>Active errors and warnings keep active until the error is solved and an opening or closing maneuver is started. Afterwards if everything is ok the error is deactivated</td></tr>
</table>

7.28 Opening function with presence detection

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P54…P5C</td><td>Switch X</td><td>SWITCH</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The opening function with presence detection allows opening the door only if the user is near her. The closing security contact input is used as presence detector, so the opening is not allowed until this input is active (for example you can use a magnetic loop vehicle detection connected to this input).</td></tr>
<tr><td>Configuration</td><td>To enable this function it is needed to assign the activation to one of the switches by means of the P54…P5C configuration parameters. Once the function assigned to the switch, it can be activated setting at ON the switch.</td></tr>
<tr><td>Operating</td><td>If the function is enabled, if you receive an order to open when the door is closed, the door will not open if the closing security contact input is not active (detects presence). After opening the door, the closing security contact will no longer be used as a presence detector and it will be used as a safety element during the closing.</td></tr>
<tr><td>Notes</td><td></td></tr>
</table>

7.29 Maintenance warning function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Typo</th></tr>
<tr><td>P78...P7C</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>P32</td><td>Limit maneuvers</td><td>NUMERIC</td></tr>
<tr><td>PC0</td><td>Reset partial maneuvers</td><td>NUMERIC</td></tr>
<tr><td>PE2</td><td>Maintenance month limit</td><td>NUMERIC</td></tr>
<tr><td>PE3</td><td>Maintenance month counter</td><td>NUMERIC</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The maintenance warning function allows the installer to control the maintenance of the installation. The maintenance warning is activated once it exceeds the maximum number of maneuvers scheduled or the maximum time in months.</td></tr>
<tr><td>Configuration</td><td>To enable this function, you must assign the role of maintenance warning to one of the outputs of the control panel. This assignment is done by configuration parameters P78 ... P7C if using a control panel output or by output configuration parameters PA1 ... PB0 when using a TL-CARD-V output.

The maximum number of operations is fixed by setting numerical parameter P32. The numerical parameter PC0 indicates the number of maneuvers counted by that moment. once the maintenance warning is activated, this parameter must be put at 0.

In case of realizing a maintenance by time, the parameter PE2 is used to fix the maintenance period in months. The PE3 parameter performs the function of counting months. Once overloaded the maintenance period, it is necessary to put this parameter at 0.</td></tr>
<tr><td>Operating</td><td>If the maintenance warning function is activated the control panel does the following:

• After reaching the maximum number of maneuvers or the maintenance period, the output configured as performed maintenance warning flashes when the door is in the OPEN and CLOSED positions.

• During the movement of the door, the output configured as maintenance warning is always off.

• The output configured as maintenance output has a second function associated: the indication of emergency stop activated. If the control panel has an emergency stop installed, the maintenance warning output is held activated during all the time that the emergency stop is activated.</td></tr>
<tr><td>Notes</td><td></td></tr>
</table>

7.30 Firewall function

<table>
<tr><td>Model</td><td>All</td></tr>
<tr><td>Associated parameters</td><td>
<table>
<tr><th>ID</th><th>Description</th><th>Type</th></tr>
<tr><td>P5E...P60</td><td>IN X</td><td>INPUT</td></tr>
<tr><td>P78…P90</td><td>OUT XX</td><td>OUTPUT</td></tr>
<tr><td>PA1…PB0</td><td>(TL-CARD-V) OUT XXX</td><td>OUTPUT</td></tr>
<tr><td>PD7</td><td>Automatic opening by fire alarm</td><td>ON/OFF</td></tr>
<tr><td>PD5</td><td>Autoclosing or auto-opening time (in second units) when fire alarm activated.</td><td>NUMERIC</td></tr>
<tr><td>P54...P5C</td><td>Switch X</td><td>SELECTOR</td></tr>
</table>
</td></tr>
<tr><td>Description</td><td>The firewall function allows to open / close the door automatically upon receipt of a fire alarm or signal. The opening and closing is performed without taking into account the safety signals of the control panel. At the same time, the control panel informs about the input in this mode with its outputs.</td></tr>
<tr><td>Configuration</td><td>To enable this function, you must assign an input signal or fire alarm at one of the inputs of the control panel. This assignment is done by the configuration parameters P5E ... P50. You can assign a type signal normally open or normally closed type signal.

The time of opening / closing is set by the configuration parameter number PD5.

The choice of whether you need to open or close is done by setting ON / OFF PD7 configuration. If ON opening is done, if OFF closing is done.

There are 2 types of outputs fire information: flash and activation. The first performs the normal function of flash but in the case that the fire signal is active remains in flash until the signal turns off. The second simply follows the input fire signal and it is activated during automatic opening / closing.

To open the door with the fire signal active, it is necessary to configure an input with this functionality of "Forced opening".</td></tr>
<tr><td>Operating</td><td>If the firewall function is activated, the unit performs the following actions:

• It monitors the input of fire signal and when it is activated, it starts an autoclosing or auto-opening time. Once the time is finished, the door opens or closes automatically (depending on the parameter PD5).

• If during the closing or opening a safety element is activated, the control panel reverses and returns to autoclosing or auto-opening after 5 seconds. At the third continuous activation of the safety element, the control panel closes without taking into account the safety element.

• In case of automatic closing, the door can only be opened by the “Forced opening" input.

• During the time that the fire signal is active, if there is a flash signal, it is also active until the fire signal disappears.

• If there is a fire signal output, it is activated during automatic closing or opening of the</td></tr>
</table>

	door. Once finished, the exit maneuver is desactivated. • Using an options selector it is posible to activate the automatic opening function due to deactivation of the signal fire. This function allows you to automatically open the door once this has closed due to the activation of a fire signal and this signal is then turned off. To assign this function to a selector options, it is necessary to configure one of the configuration parameters P54 ... P5C. This function is not compatible with the automatic opening fire signal function (parameter PD7).
Notes	

7.31 TAMPER function

Model	Models with TAMPER input available (M22)
Associated parameters	<table><tr><th>*ID*</th><th>*Description*</th><th>*Type*</th></tr><tr><td>*P78…P90*</td><td>*OUT XX*</td><td>*OUTPUT*</td></tr><tr><td>*PE0*</td><td>*TAMPER activations counter*</td><td>*NUMERIC*</td></tr></table>
Description	TAMPER function allows the installer to configure an output of the control panel in order to inform on the box tampering. This output can be used to control an alarm, warning siren, etc.. You can also control the number of manipulations by a counter that can be accessed and reset by VERSUS-PROG.
Configuration	To enable this function, you must assign a TAMPER output in one of the control panel outputs. This assignment is done using configuration parameters *P78 ... P90*.
Operating	Some models of VERSUS control panels incorporate a TAMPER type input that allows the installation of a switch that controls the opening of the cover of the box. When the cover of the control panel box is opened, tamper output is activated indicating the manipulation of the control panel. The opening of the cover is recorded by the activations counter parameter that can be accessed and reset by the programming tool.
Notes	

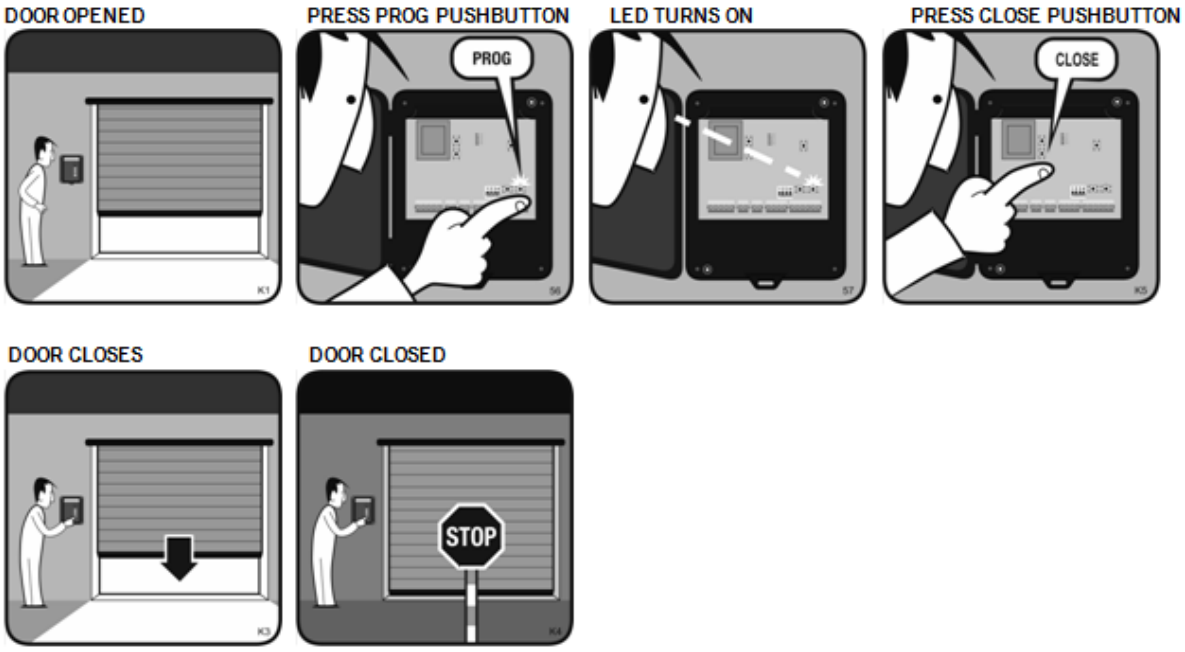
8. PROGRAMMING OF MANEUVERS

8.1 Door positioning

Before performing a program the door should be fully in closed position.

8.2 Door positioning in Dead man mode

Press the PROG button to enter Programming mode. The PROG Led will turn on. Through the buttons OPEN and CLOSE, if there are available, you can position the door to the totally closed position.

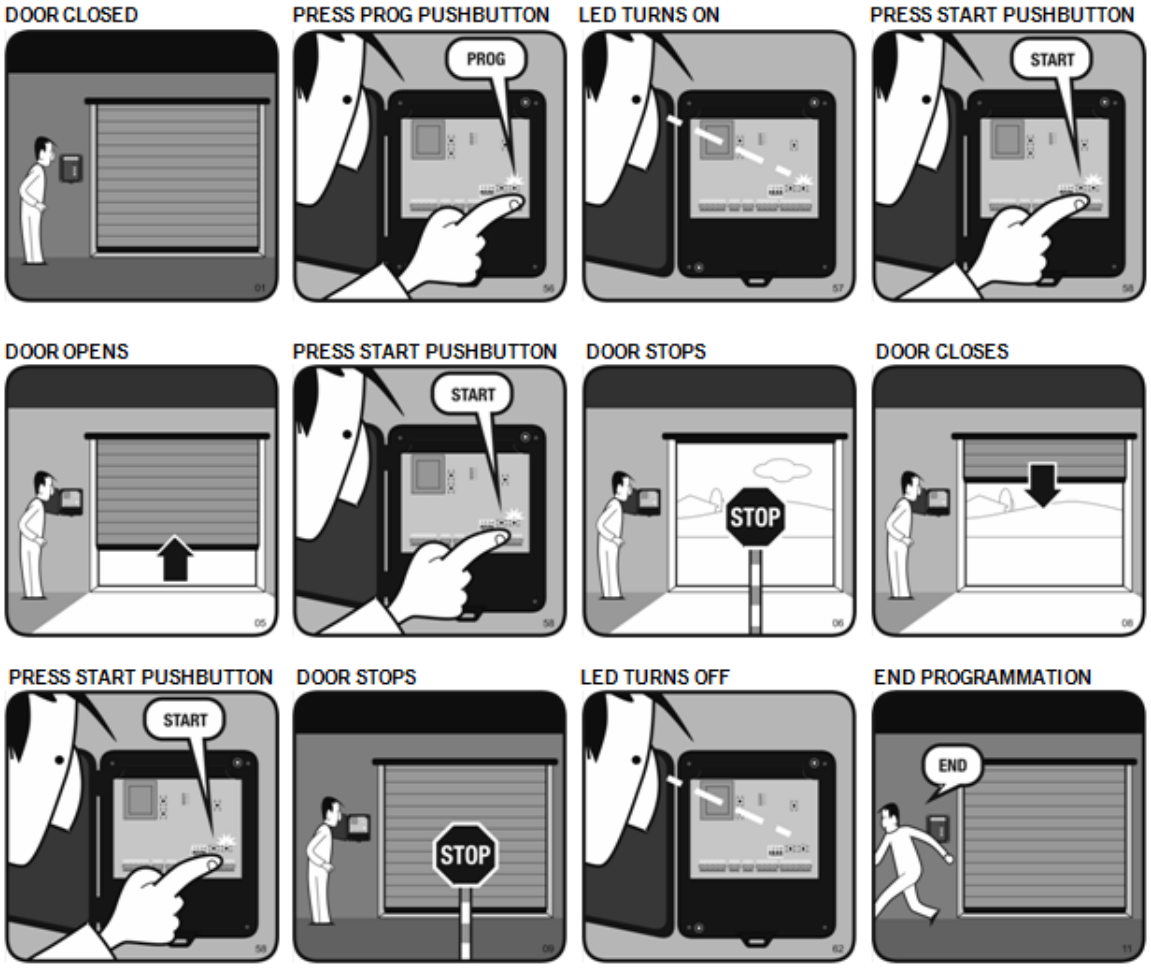


8.3 Auto-Programming

Follow the steps to perform the auto-programming. It is necessary to have the autoprogramming function activated *(P01 parameter)*:

1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door opens
6. Press START pushbutton to stop the door at the desired positon
7. The door stops
8. The door closes automatically
9. Press START pushbutton to stop the door at the desired positon
10. The door stops
11. The PROG Led turns off
12. The programming is finished

The control panel is programmed with the following fixed parameters: slow speed manoeuvre is 15% of the total manoeuvre, the pedestrian opening is 1/3 of the total opening time and autoclosing time is 30 seconds (in total opening and in partial opening).

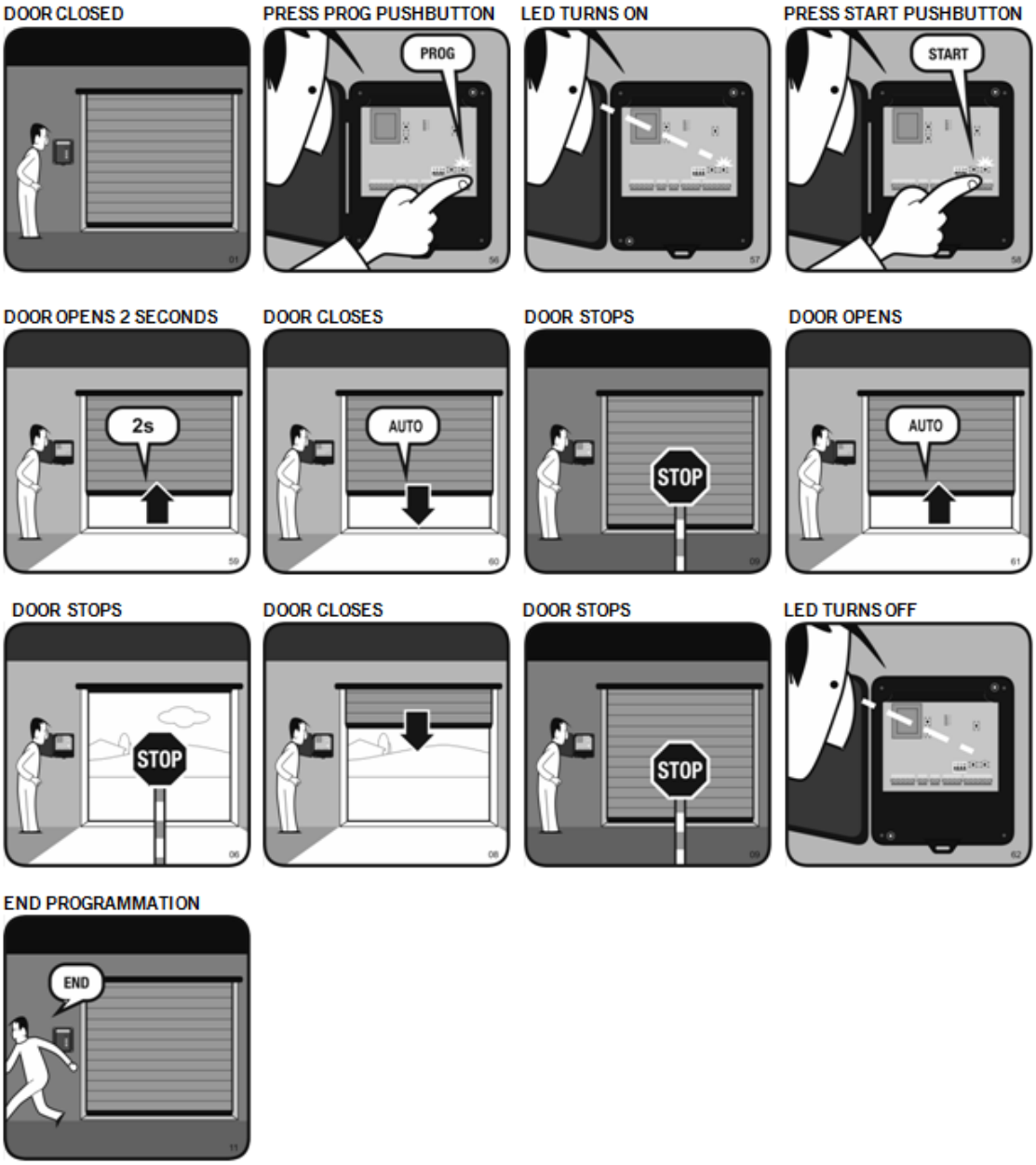


8.4 Auto-Programming with internal limit switches detection

Follow the steps to perform the auto-programming with internal limit switches detection. It is necessary to have the autoprogramming function activated *(P01 parameter)* and the internal limit switches detection activated *(P1E parameter)*:

1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door opens two seconds and stops
6. The door closes automatically until the closed position
7. The door stops
8. The door opens automatically until a mechanical stop or a limit switch is reached
9. The door stops
10. The door closes automatically until a mechanical stop or a limit switch is reached
11. The door stops
12. The PROG Led turns off
13. The programming is finished

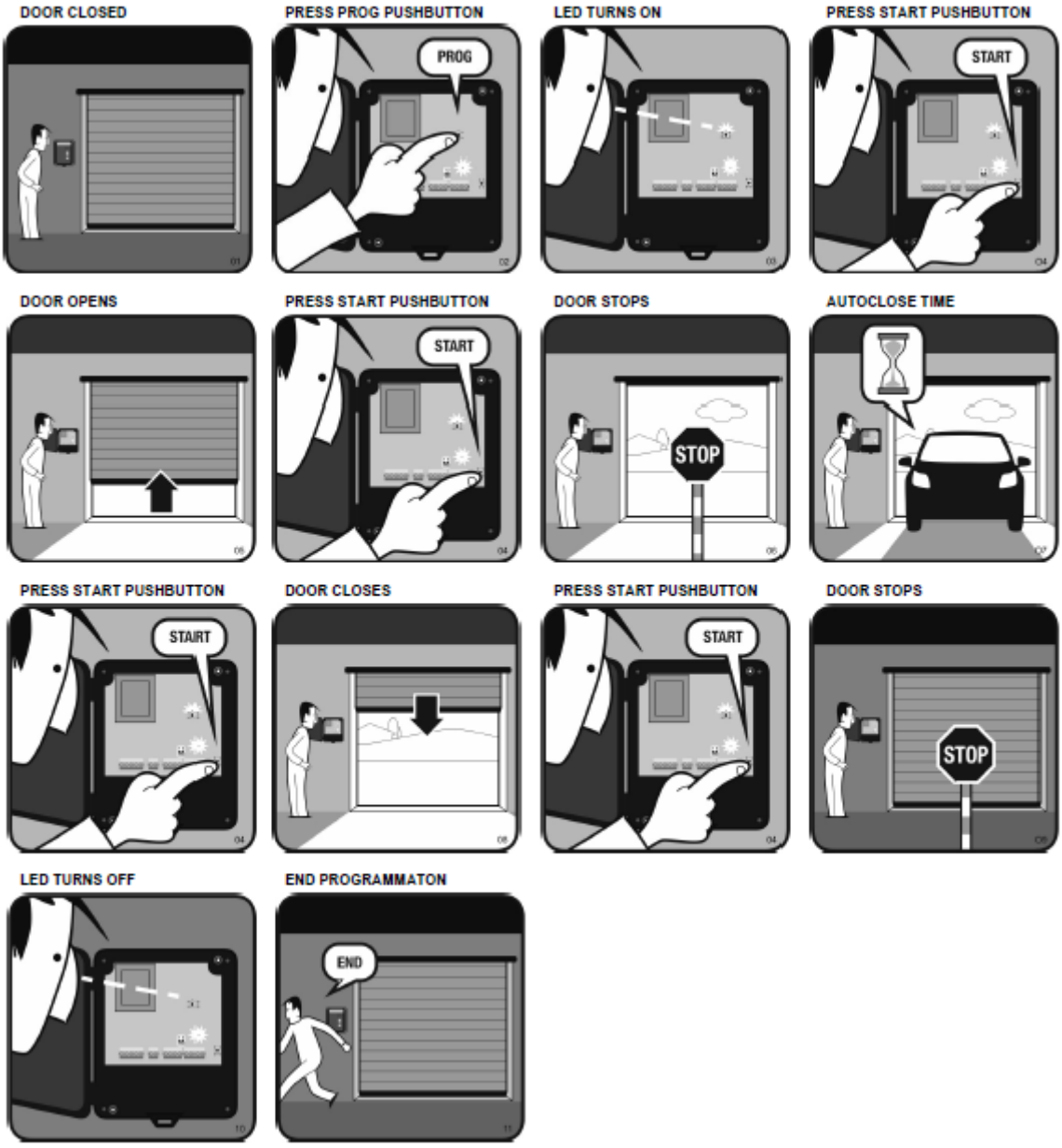
The control panel is programmed with the following fixed parameters: the pedestrian opening is 1/3 of the total opening time and autoclosing time is 30 seconds (in total opening and in partial opening).



8.5 Manual Programming

Follow the steps to perform the manual programming:

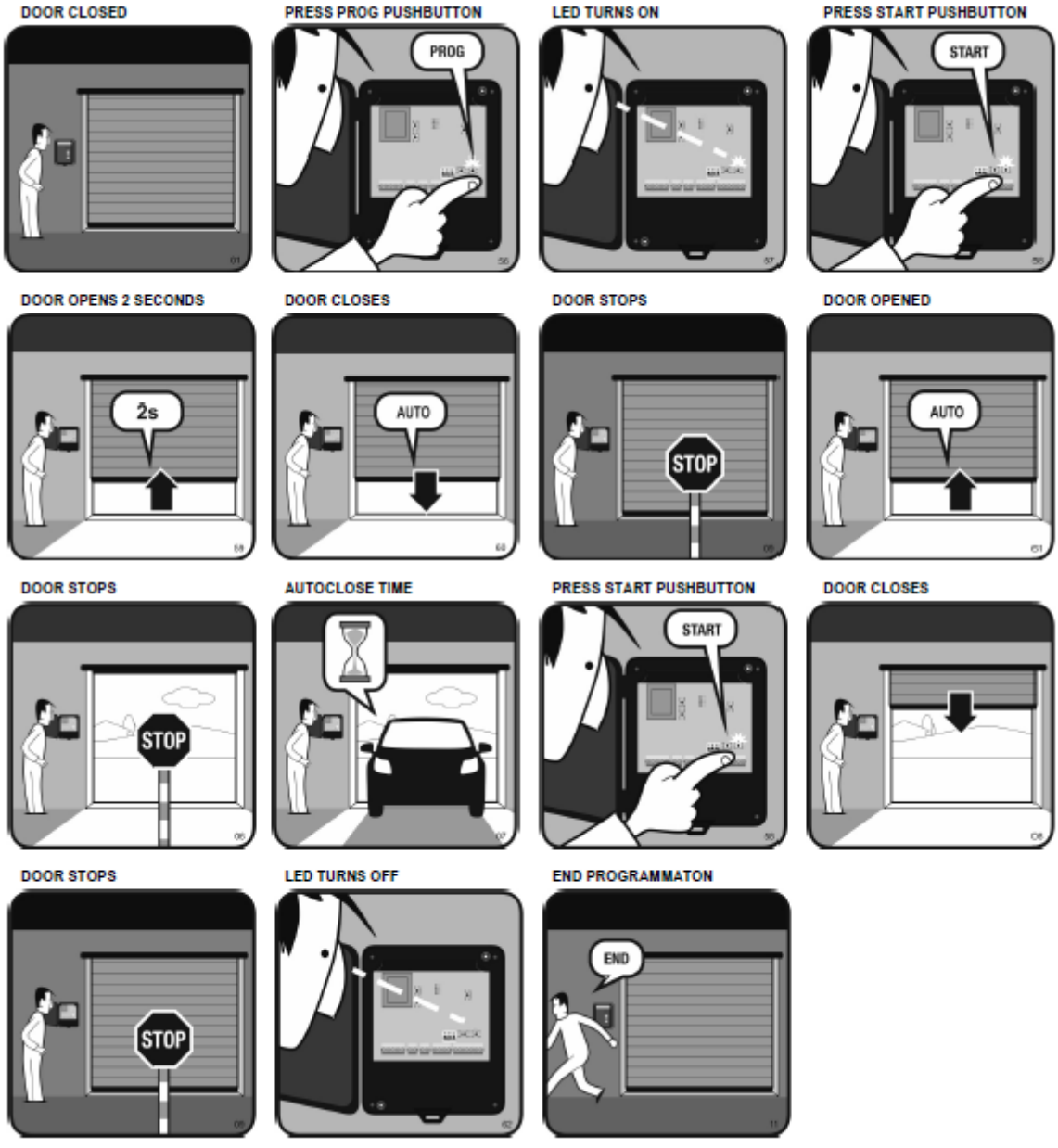
1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door opens
6. Press START pushbutton to stop the door at the desired position
7. The door stops
8. Wait to program the desired autoclose time
9. Press START pushbutton to close the door
10. The door closes
11. Press START pushbutton to stop the door at the desired position
12. The door stops
13. The PROG Led turns off
14. The programming is finished



8.6 Manual Programming with internal limit switches detection

Follow the steps to perform the manual programming with internal limit switches detection. It is necessary to have the internal limit switches detection activated *(P1E parameter)*:

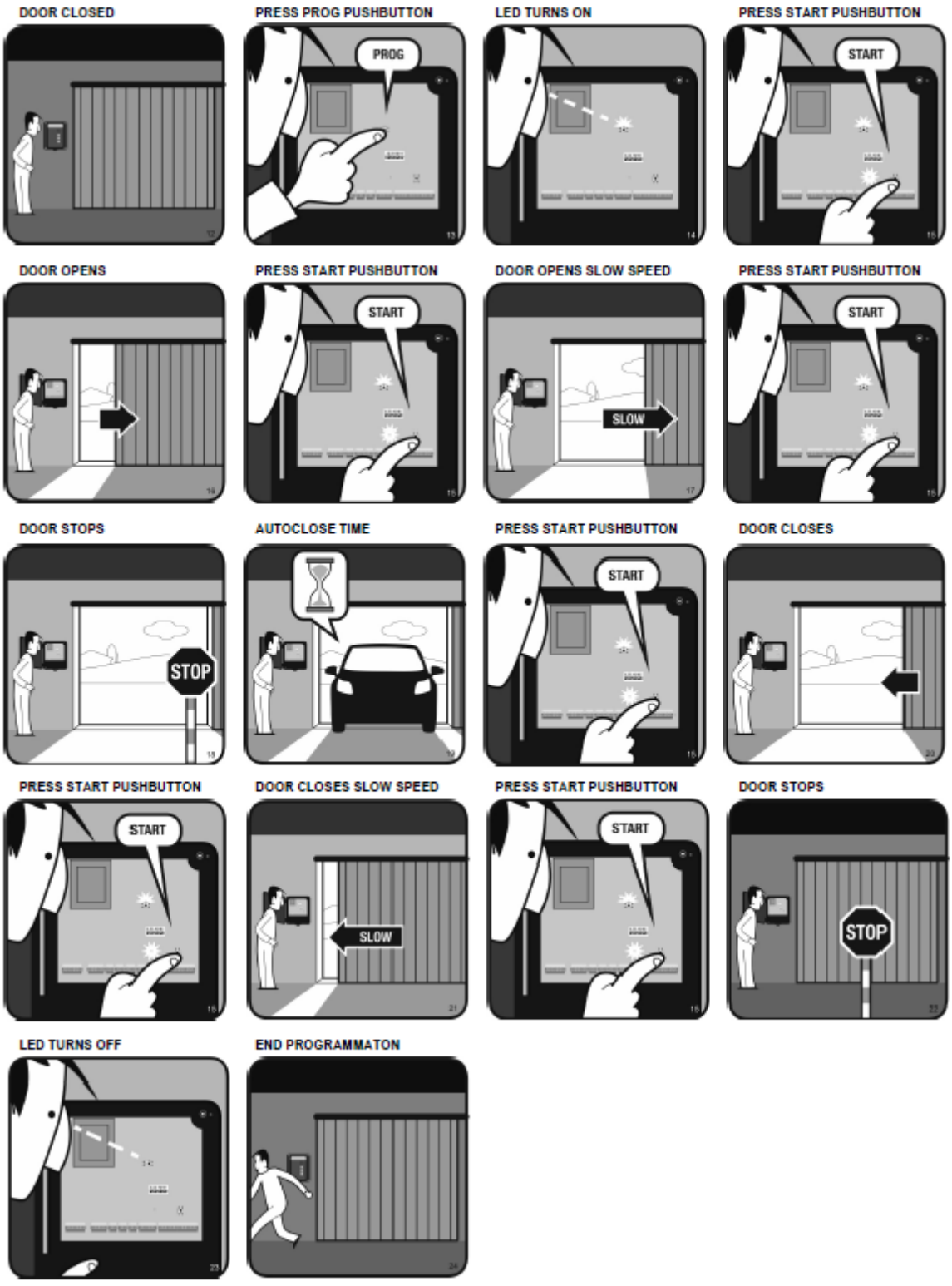
1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door opens two seconds and stops
6. The door closes automatically until the closed position
7. The door stops
8. The door opens automatically until a mechanical stop or a limit switch is reached
9. The door stops
10. Wait to program the desired autoclose time
11. Press START pushbutton to close the door
12. The door closes until a mechanical stop or a limit switch is reached
13. The door stops
14. The PROG Led turns off
15. The programming is finished



8.7 Manual Programming with slow speed function activated

Follow the steps to perform the manual programming with slow speed function activated. It is necessary to have the slow speed function activated *(P04 parameter)*:

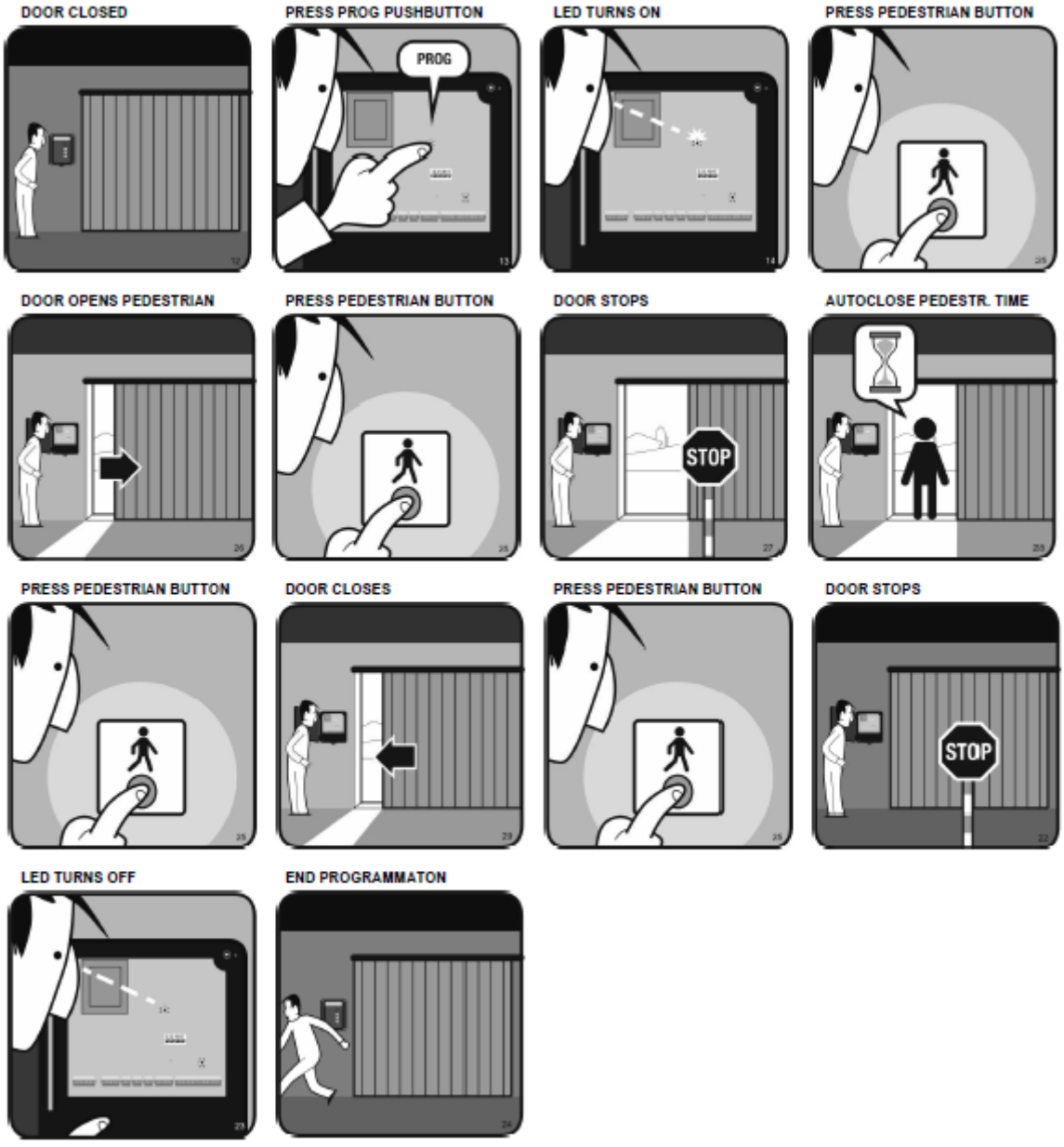
1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door opens
6. Press START pushbutton at the desired position to move the door at slow speed
7. The door finishes opening at slow speed
8. Press START pushbutton to stop the door at the desired position
9. The door stops
10. Wait to program the desired autoclose time
11. Press START pushbutton to close the door
12. The door closes
13. Press START pushbutton at the desired position to move the door at slow speed
14. The door finishes closing at slow speed
15. Press START pushbutton to stop the door at the desired position
16. The door stops
17. The PROG Led turns off
18. The programming is finished


DOOR CLOSED
PRESS PROG PUSHBUTTON
PROG
LED TURNS ON
PRESS START PUSHBUTTON
START
DOOR OPENS
PRESS START PUSHBUTTON
START
DOOR OPENS SLOW SPEED
SLOW
PRESS START PUSHBUTTON
START
DOOR STOPS
STOP
AUTOCLOSE TIME
PRESS START PUSHBUTTON
START
DOOR CLOSES
PRESS START PUSHBUTTON
START
DOOR CLOSES SLOW SPEED
SLOW
PRESS START PUSHBUTTON
START
DOOR STOPS
STOP
LED TURNS OFF
END PROGRAMMATON

8.8 Pedestrian Programming

Follow the steps to perform the pedestrian programming:

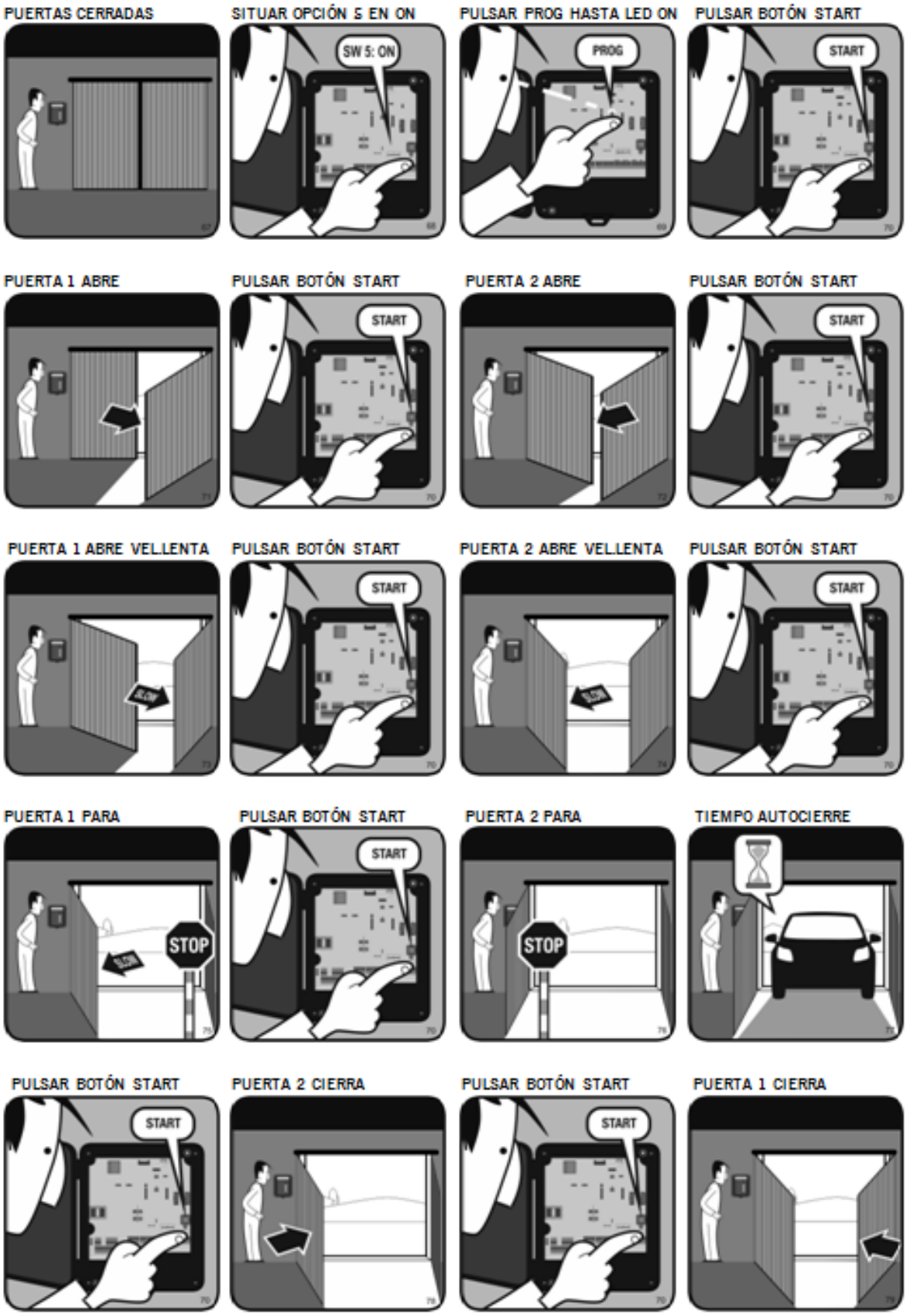
1. Door is in the totally closed position
2. Press PROG pushbutton to enter programming mode
3. The PROG Led will turn on
4. Press PEDESTRIAN button instead of START pushbutton to program the maneuver
5. The door opens
6. Press PEDESTRIAN button to stop the door at the desired positon
7. The door stops
8. Wait to program the desired autoclose time
9. Press PEDESTRIAN button to close the door
10. The door closes
11. Press PEDESTRIAN button to stop the door at the desired positon
12. The door stops
13. The PROG Led turns off
14. The programming is finished

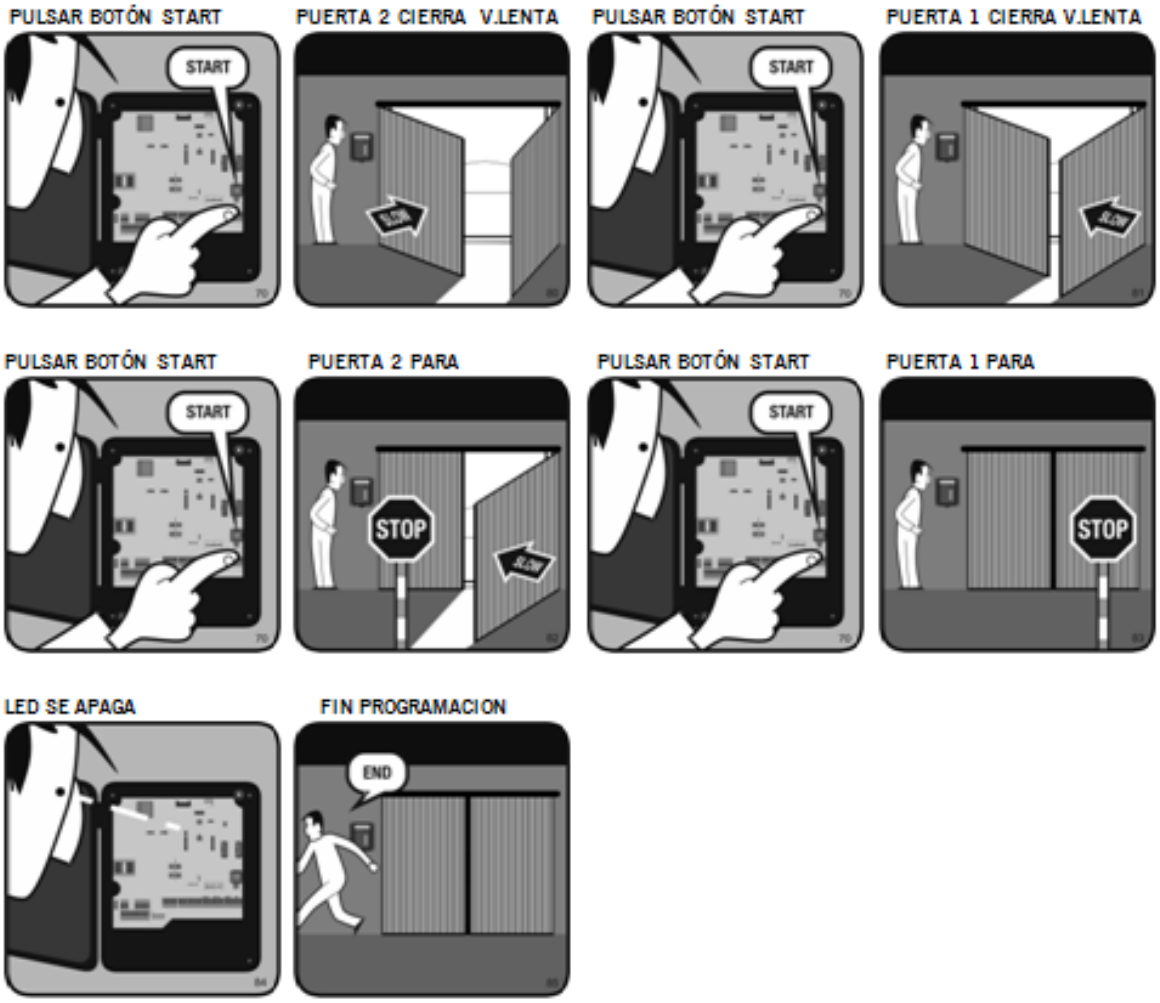


8.9 Manual programming with slow speed function activated with two motors

Follow the steps to perform this programming:

1. Door is in the totally closed position
2. Set option 5 at ON
3. Press PROG pushbutton to enter programming mode, until PROG Led turns on
4. Press START pushbutton or a programmed transmitter to program the maneuver
5. The door 1 opens
6. Press START pushbutton
7. The door 2 opens
8. Press START pushbutton
9. The door 1 opens at slow speed
10. Press START pushbutton
11. The door 2 opens at slow speed
12. Press START pushbutton
13. The door 1 stops
14. Press START pushbutton
15. The door 2 stops
16. Wait to program the desired autoclose time
17. Press START pushbutton
18. The door 2 closes
19. Press START pushbutton
20. The door 1 closes
21. Press START pushbutton
22. The door 2 closes at slow speed
23. Press START pushbutton
24. The door 1 closes at slow speed
25. Press START pushbutton
26. The door 2 stops
27. Press START pushbutton
28. The door 1 stops
29. The PROG Led turns off
30. The programming is finished


PUERTAS CERRADAS
SITUAR OPCIÓN 5 EN ON
SW 5: ON
PULSAR PROG HASTA LED ON
PROG
PULSAR BOTÓN START
START
PUERTA 1 ABRE
PULSAR BOTÓN START
START
PUERTA 2 ABRE
PULSAR BOTÓN START
START
PUERTA 1 ABRE VEL.LENTA
PULSAR BOTÓN START
START
PUERTA 2 ABRE VEL.LENTA
PULSAR BOTÓN START
START
PUERTA 1 PARA
STOP
PULSAR BOTÓN START
START
PUERTA 2 PARA
STOP
TIEMPO AUTOCIERRE
PULSAR BOTÓN START
START
PUERTA 2 CIERRA
PULSAR BOTÓN START
START
PUERTA 1 CIERRA


PULSAR BOTÓN START
START
PUERTA 2 CIERRA V.LENTA
SLOW
PULSAR BOTÓN START
START
PUERTA 1 CIERRA V.LENTA
SLOW
PULSAR BOTÓN START
START
PUERTA 2 PARA
STOP
SLOW
PULSAR BOTÓN START
START
PUERTA 1 PARA
STOP
LED SE APAGA
FIN PROGRAMACION
END

9. PROGRAMMING CODES IN THE RECEIVER

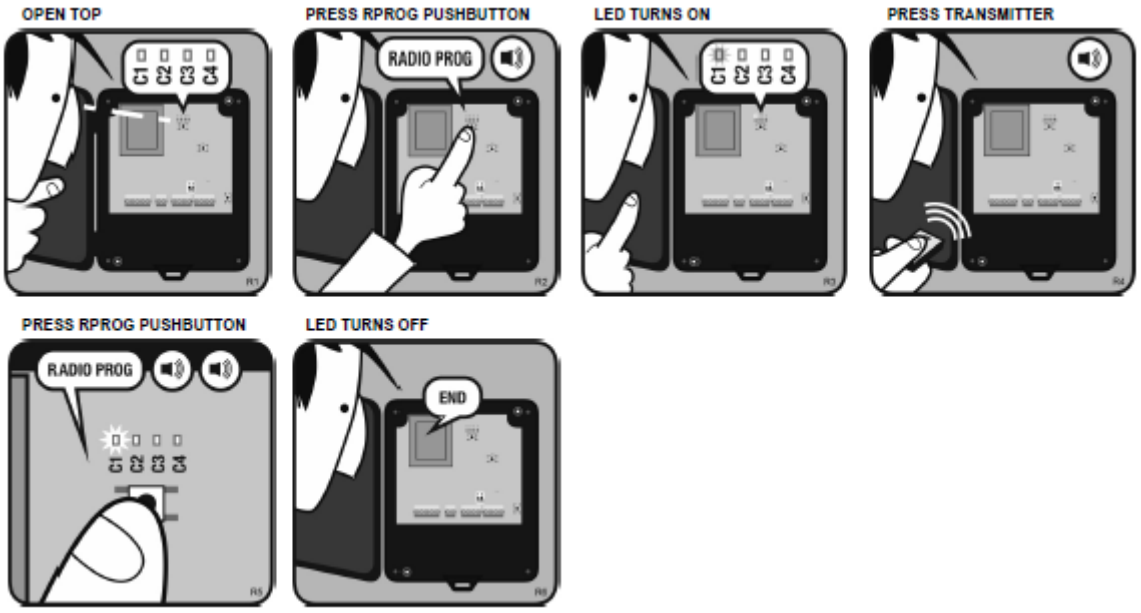
9.1 Manual Programming MOTION transmitters

Press the receiver programming button for 1 sec. and an acoustic signal will be heard. The receiver will enter programming mode 1. If the receiver programming button is held pressed down, the receiver will enter programming modes 2, 3, 4 and 5, cyclically passing from one configuration to the next. Once the programming configuration for the transmitter to be registered has been chosen, send the code to be programmed by pressing the transmitter.

Mode	Configuration of transmitter programming in the receiver	Led
1	By pressing the desired channel of the transmitter, the alternative input will be activated	C1
2	By pressing the desired channel of the transmitter, the pedestrian input will be activated	C2
3	By pressing the desired channel of the transmitter, the open input will be activated	C3
4	By pressing the desired channel of the transmitter, the close input will be activated	C4
5	Programming of the 4 pushbuttons sequentially on the receiver (alternative, pedestrian, open and close)	All intermittent

Every time a transmitter is programmed, the equipment will issue an acoustic signal for 0.5 sec. After 10 seconds without programming or by pressing the programming button, or by pressing the first two buttons of a transmitter (depending on the programming mode), the equipment will exit programming mode, issuing two 1 sec. acoustic signals. If, on programming a transmitter, the equipment memory is full, it will issue seven 0.5 sec. acoustic signals and exit programming.

N.B.: Each transmitter channel can be configured independently on the equipment, occupying only one memory position.



9.2 Programming by radio

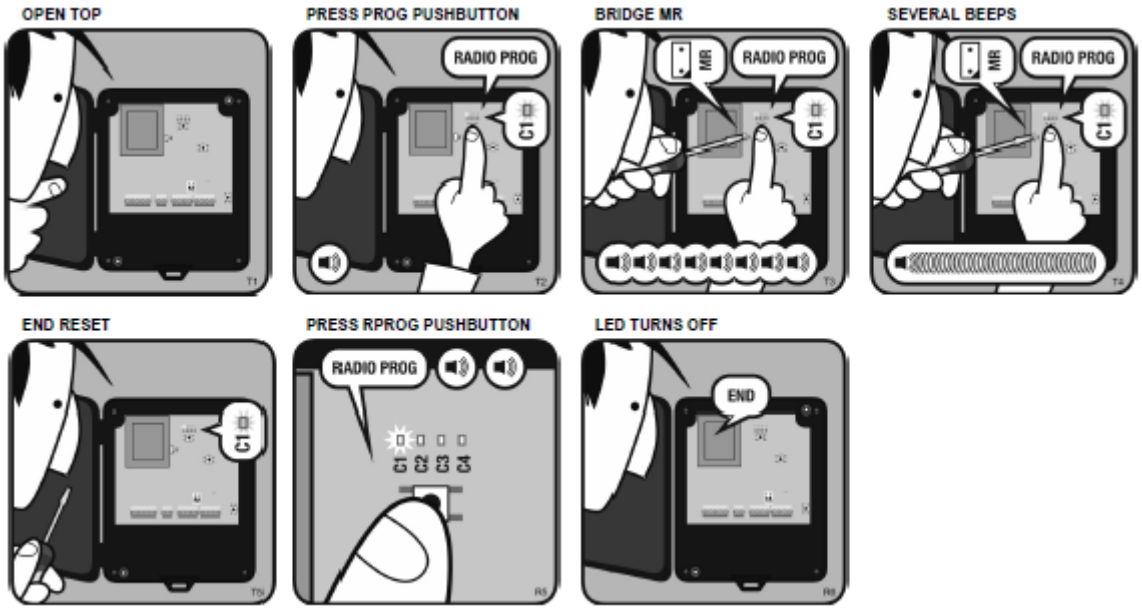
To enter programming, press the first two buttons on a transmitter that has already been registered on the equipment. The equipment will issue a 1 sec. acoustic signal. On pressing any button on the new transmitter, the equipment will issue another 1 sec. acoustic signal to indicate that it has been memorised. The new transmitter will maintain the same channel configuration as the transmitter registered.

After 10 seconds without programming or by quickly pressing the programming button or pressing the first two transmitter buttons, the equipment will exit programming mode, issuing two 1 sec. acoustic signals.

9.3 Reset

In programming mode, the programming button is held down for over 10 sec. The equipment will issue 10 short acoustic warning signals followed by others at a faster pace to indicate that the operation has been successful. The equipment is now in programming mode. The pilot programming light will also follow the acoustic indications by flashing.

After 10 seconds without programming or quickly pressing the programming button, the equipment will exit programming mode, issuing two 1 sec. acoustic signals.



10. ACCESSORIES

10.1 VERSUS-PROG portable programmer

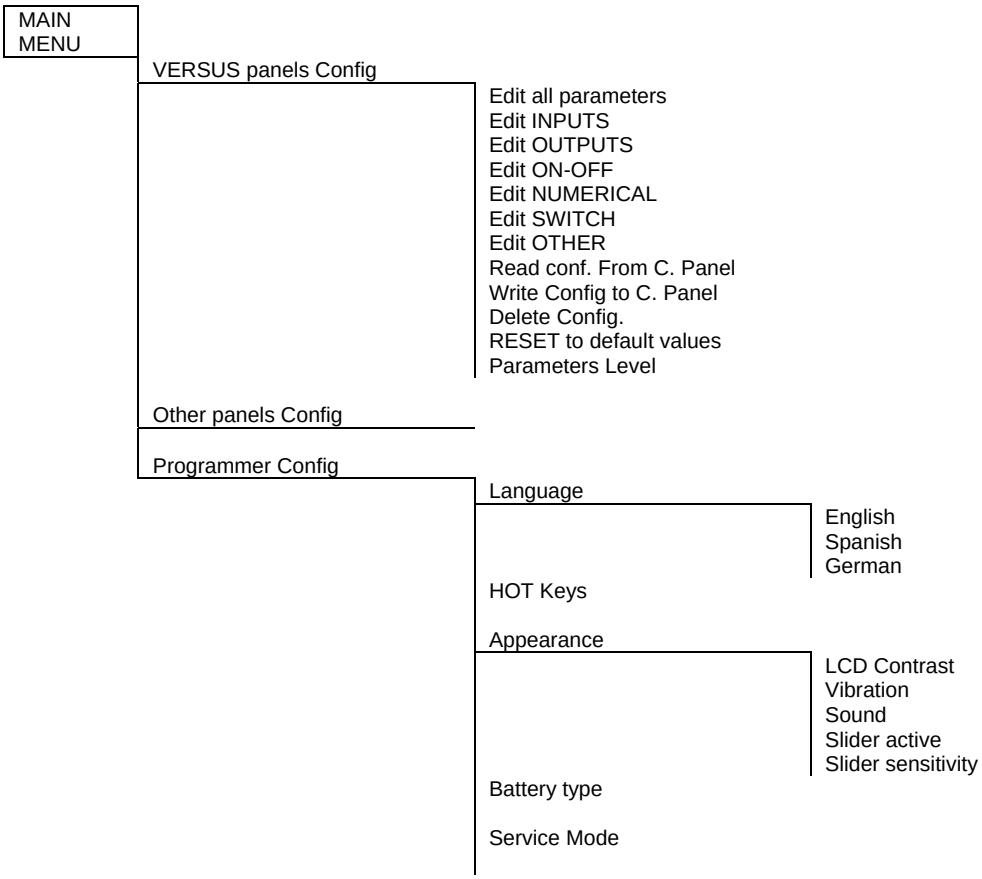
1. DESCRIPTION

This is a portable tool that permits to parameterize certain specifications (Inputs, outputs and software functions) from new generation control panels. Is also compatible with panels which are programmable with PROG-MAN.
It operates via a rotary menu using fixed and configurahble function keys
It has a backlit display, which shuts down after 20 seconds of inactivity. The programmer has an automatic cut-off function after 3 minutes to save battery.
Configuration cables for the new generation control panels are supplied VERSUS.

2. TECHNICAL SPECIFICATIONS

Frequency	868,35MHz / 13,56MHz
Power Supply	2x1.5 AA alkaline batteries / batteries Rechargable / through MINI-USB
Standby consumption	0,75mW
Via cable / via proximity operating consumption	300mW / 850mW
Radiated Power	<25mW
Operating Temperature	-10ºC to 60ºC
Watertighness	IP20
Dimensiones	70 x 180 x 35 mm

3. MENU



4. OPERATION

4.1 VERSUS PANELS CONFIG

It allows configuring the new generation control panels.

4.1.1 EDIT: ALL PARAMETERS (INPUTS, OUTPUTS, ON-OFF, NUMERICAL, SWITCH AND OTHERS)

Allows reading and/or editing the applicable parameters to the control panel, which will be displayed on screen depending on what control panel model the programmer is connected to.
To read or modify parameters, place the cursor over the desired field and enter pressing the key Intro.
You can view the currently configured value on top of the screen of the controller, the default value is placed on the centre and the configuration options are at the bottom. Using the lateral movement arrow keys and vertical movement arrow keys (slider)you can navigate through the settings. To confirm a setting, press the key Intro.
After changing any parameter from the control panel, a complete programming manoeuvre must be performed.

4.1.2 READ CONF. FROM C. PANEL

Allows reading and saving different configurations from the control panels
The display will show the names of the previously saved configuration settings.
If you want to save a new configuration file, select "add new one" and choose a name to using the arrow keys.
If you want to save the configuration settings on an existing file, select the file with the cursor and accept. Note that the previous settings will be erased and only the new configuration will be saved.

4.1.3 WRITE CONFIG TO C. PANEL

Allows writting different configurations to the control panels
Choose the desired configuration setting with the cursor and press Intro. The configuration settings are recorded automatically and a operation message operation will be displayed if the operation is successful

4.1.4. DELETE CONFIG

Allows eliminating any existing configurations from programmer intern memory

4.1.5 RESET TO DEFAULT VALUES

It allows configurating the control panel with the default values.

4.1.6 PARAMETRES LEVEL

The parameters are organized in two different levels, basic and advanced.
Allows selecting what parameters will be displayed in the programmer

4.2 OTHER PANELS CONFIG

It allows setting the control panels configurable with PROG-MAN.

4.3 PROGRAMMER CONFIG

It allows setting the programming software.

4.3.1 LANGUAGE

This allows for the required language to be selected . There are 3 languages vailable depending on the version

4.3.2 HOT KEYS

It allows assigning different functions to the hot keys. Select the key you want to configure using the navigation keys and the slider to navigate and assign different options to the hot keys.

4.3.2 APPEARANCE

Allows adjusting the parameters and/or deactivate some of the programmer appearance parameters: LCD contrast, vibration, sound, slider active, slider sensitivity and battery type.

4.3.3 BATTERY TYPE

Allows choosing if the programmer batteries are re-chargeable or not.
When a charge of the rechargeable batteries is required, the programmer recharges the batteries slowly. If you want to load them quickly, remove the batteries and recharge them with an external charger.

Attention: Do not attempt to charge non-rechargeable batteries.

4.3.4 MODO SERVICIO

Transfers the programmer control to the PC for: updating firmware, change languages and manage configurations form the PC

USE OF THE PROGRAMMER

The programmer is designed for the management of installations as per the general description. Not guaranteed for other uses.

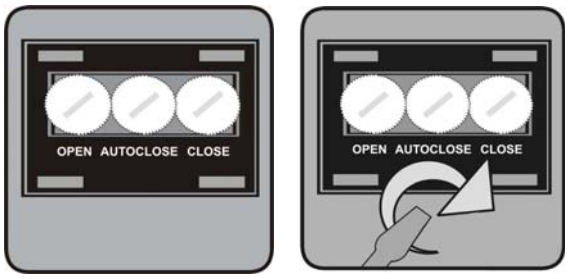
The manufacturer reserves the right to modify equipment specifications without prior notice.

JCM TECHNOLOGIES, S.A. declares here with that the product VERSUS-PROG complies with the relevant fundamental requirements as per Article 3 of the R&TTE Directive 1999/5/EG, insofar as the product is used correctly.

CE DECLARATION OF CONFORMITY

See website www.jcm-tech.com

10.2 V-POT card



DESCRIPTION
Potenciometers card for manage and program the programmable parameters of the control panel.

CONNECTION
Connect the card to the control panel on the indicated terminals. The control panel must be without power supply.
Note: In case of installation with the box upside, turn up the card and then the frontal buttons will be reconfigured to the new position of the control panel.

OPERATING
Modify the values of the potenciometers always with the door stopped.

Notes:
The values depend on the control panel and only will be taken into account when the door is opened, stopped or closed.
The card keeps the last values programmed even when it is disconnected from the control panel.

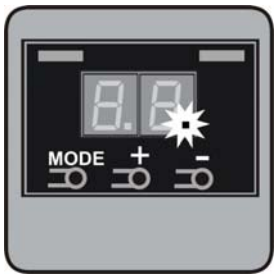
10.3 V-DPLAY card

DESCRIPTION
Display card for manage and program the programmable parameters of the control panel.

CONNECTION
Connect the card to the control panel on the indicated terminals. The control panel must be without power supply.
Note: In case of installation with the box upside, turn up the card and then the frontal buttons will be reconfigured to the new position of the control panel.

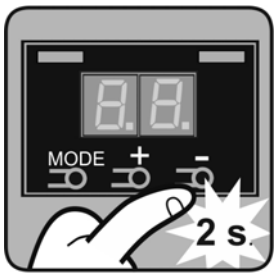
OPERATING

1. STANDBY MODE



It is only available to enter standby mode if the door is not in movement and if there is no error activated.

2. DOOR STATE INDICATION MODE



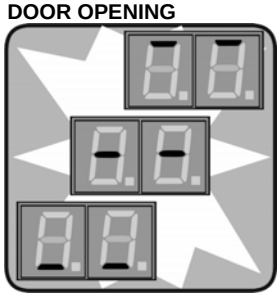
When the door is in movement, the control panel indicates the state of the door: opened, closed or moving.

You also can access to visualize the state of the door pressing any of the buttons of the display card during 2 seconds. The display will indicate the state of the door. The control panel will get out this mode automatically after 30 seconds.

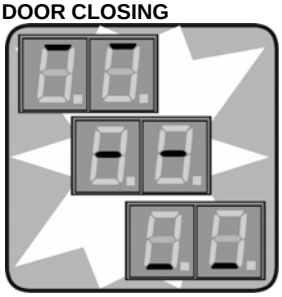
DOOR OPENED

DOOR CLOSED

DOOR OPENING

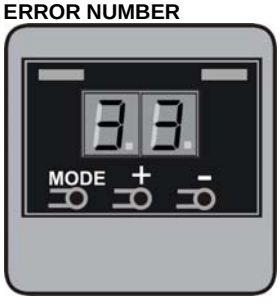


DOOR CLOSING

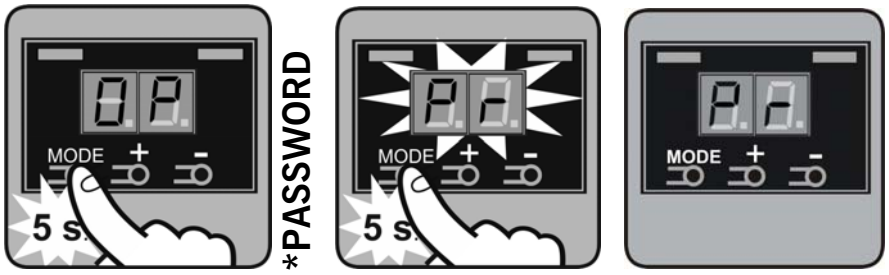


ERROR

ERROR NUMBER



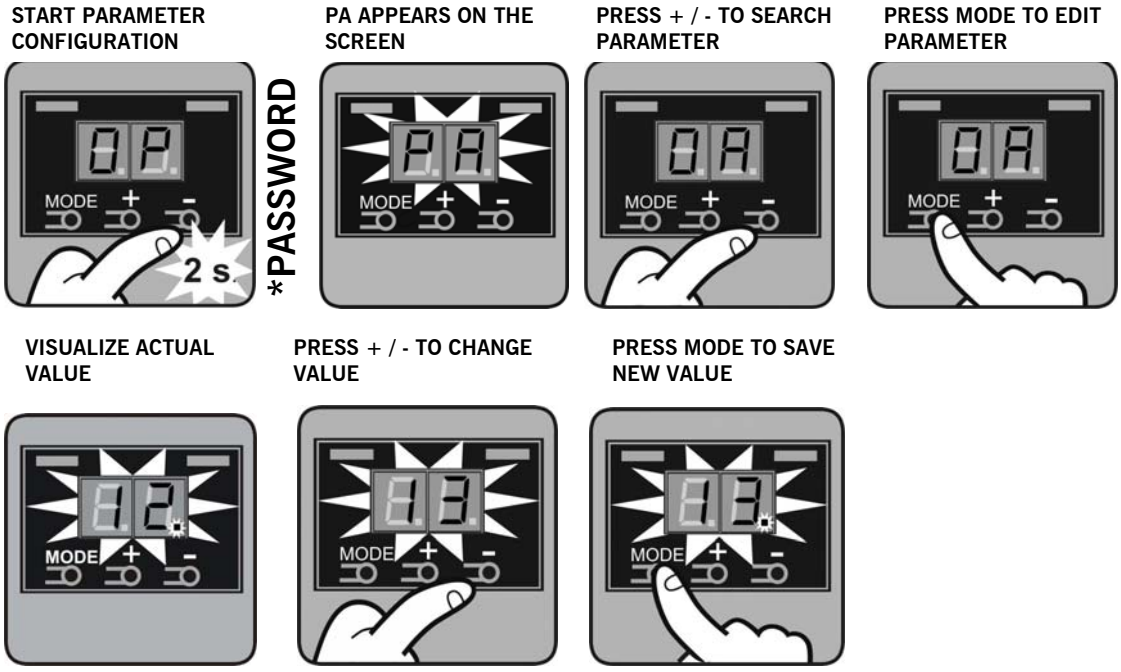
3. PROGRAMMING MODE



Being in “Door state indication” mode, press the MODE button during 5 seconds. PR will appear on the display indicating that the control panel has entered programming mode. Once finished the programming of the maneuver, the control panel will exit this mode automatically after 30 seconds.

4. PARAMETER CONFIGURATION MODE

Being in “Door state indication” mode, press the + or – button during 2 seconds to enter in “Parameters configuration” mode. To exit this mode wait 10 seconds without pressing any button.



Notes:

The values depend on the control panel and only will be taken into account when the door is opened, stopped or closed.

The card keeps the last values programmed even when it is disconnected form the control panel.

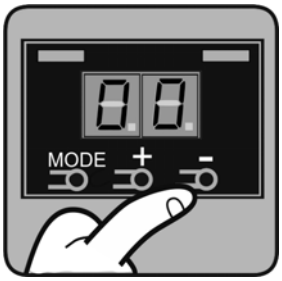
The numeric parameters have a scale factor according to the maximum number that they can adopt. See the section 5 of the GAMMA VERSUS MANUAL for finding this scale factor (named as DPLAY factor).

* CONTROL PANEL WITH PASSWORD

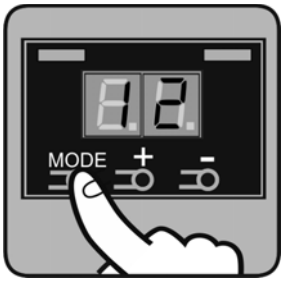
If the control panel is blocked by password, this one must to be introduced to access 3 and 4 modes, Programming and Parameter Configuration modes, respectively.
For example, if the password is 1234, follow the steps below:

P1 APPEARS ON THE SCREEN

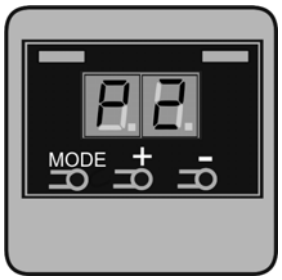
PRESS + / - TP ENTER VALUE 12



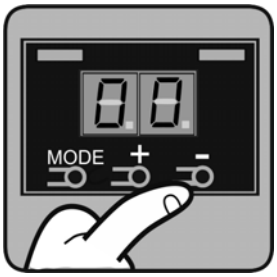
PRESS MODE TO VALIDATE VALUE 12



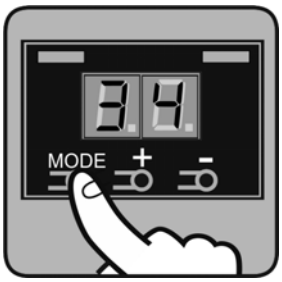
P2 APPEARS ON THE SCREEN



PRESS + / - TO ENTER VALUE 34



PRESS MODE TO VALIDATE VALUE 34



IF PASSWORD ERROR, AN ERROR APPEARS

10.4 V-EXPAND card

DESCRIPTION

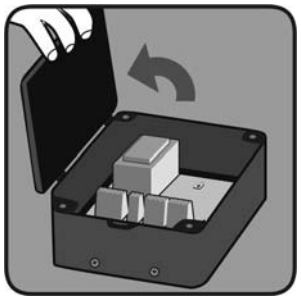
Expansion card with inputs and outputs and/or functions. Each card has two card connectors. Multiple cards may be connected in series.

It also has an additional power supply 230Vac, to increase the possible consumption of the cards, or to feed externally and operate autonomously.

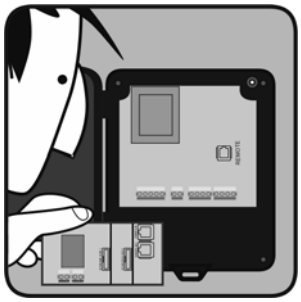
INSTALLATION

A) Installation in boxes with dimensions 285x225x92mm.

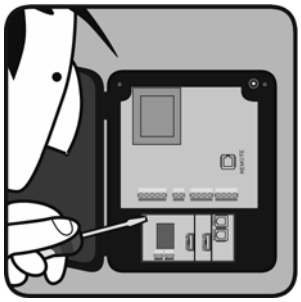
1.OPEN BOX



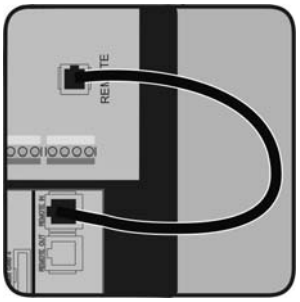
2.PLACE CARD



3. SCREW CARD

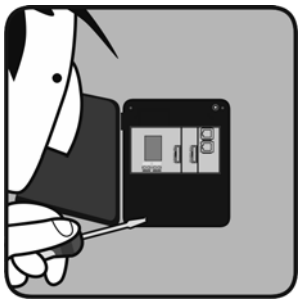


4.CONNECT CARD

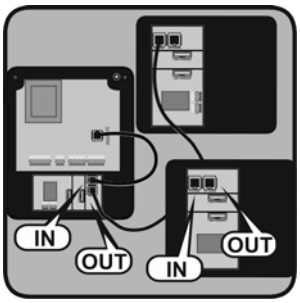


B) Installation in additional small box with dimensions 180x152x88mm.

1.PLACE IN ADDITIONAL CARD



2.CONNECT CONTROL PANEL



USE OF THE SYSTEM

This equipment is designed to be installed with control panels for door and gate installations. It is not guaranteed for directly activating equipment other than that specified.

The manufacturer reserves the right to change the specification of the equipment without prior warning.

IMPORTANT ANNEX

Disconnect the power supply whenever you proceed to the installation or repair of the control panel.

In accordance with the European low voltage directive, you are informed of the following requirements:

· For permanently connected equipment, an easily accessible connection device must be incorporated into the cabling.

· This system must only be installed by a qualified person that has experience with automatic doors/gates and knowledge of the relevant EU standards.

· The instructions for use of this equipment must always remain in the possession of the user.

· Terminals with a maximum section of 3.8mm2 must be used to connect the cables.

· The frequency of the RadioBand system does not interfere in any way with the 868 MHz remote control systems.

10.5 Output expansión card TL-CARD

DESCRITION

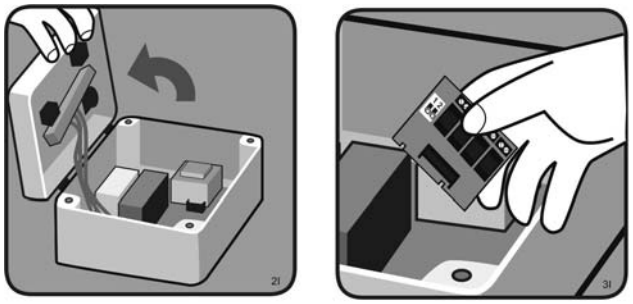
Pluggable output expanding card for connecting to a control panel. It has 4 voltage-free outputs (max. 230V 5A).

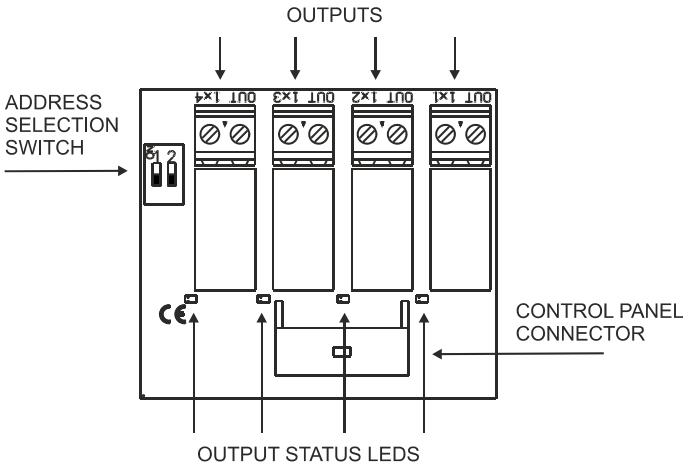
TECHNICAL CHARACTERISTICS

Supply	12V dc
Op. temperature	-20ºC to +85ºC
Size	50x65x20mm
Number of relay	4
Maximum relay current	5A- 230V; 10A- 125VA
Output voltage	Voltage free (Maximum voltage applied 230V)
Selector	4 possible board adresses

INSTALLATION AND CONNECTIONS

Plug the expanding card to the control panel on the connectors indicated.
The control panel should be without power supply.





OPERATING

The control panel will autodetect the presence of the espanding card (TL-CARD-V).
The configuration of the card will depend on function assignation done from control panel.
Select trough the switch the desired address for the plugged card.

SWITCH SELECTOR

Switch 1	Switch 2	Outputs address			
		1x1	1x2	1x3	1x4
OFF	OFF	101	102	103	104
OFF	ON	111	112	113	114
ON	OFF	121	122	123	124
OFF	OFF	131	132	133	134

Notes:

The functions of each output of the TL-CARD-V (101 to 134) are managed by the control panel. This function has a default value and it can be modified throught the configuration accessories like V-DPLAY and VERSUS-PROG.

USE OF THE EQUIPMENT

Designed for the automation of automatic doors, according to the general description. Not guaranteed for other uses.
The manufacturer reserves the right to alter equipment specifications without prior notification.

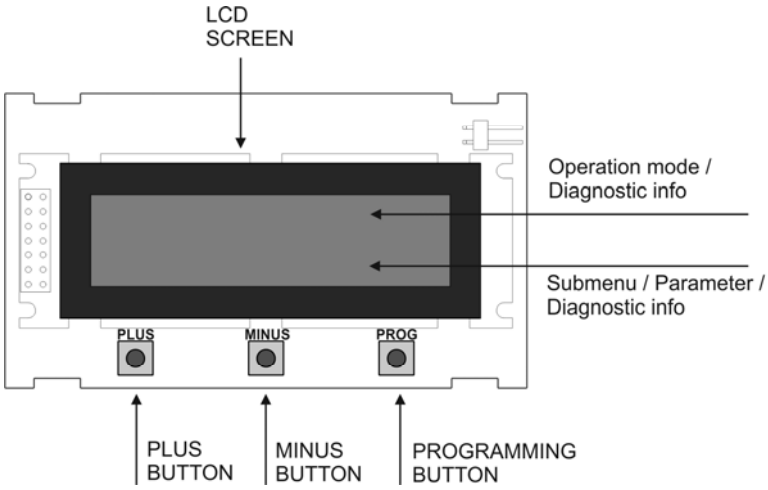
CE DECLARATION OF CONFORMITY

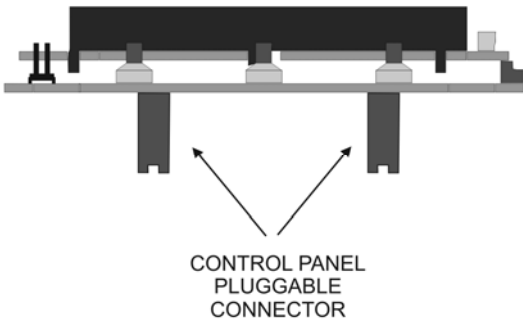
See web www.jcm-tech.com

10.6 Portable programmer V-LCD

Description

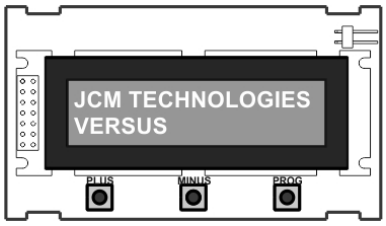
Display card for manage and program the configurable parameters of the Versus control panel.





Connection

Connect the card to the control panel on the indicated terminals. The control panel must be without power supply.
When the control panel is power supplied, the V-LCD is on standby mode and the following message will appear on the screen of the V-LCD.

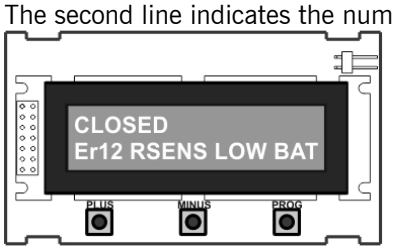


Operating modes

Being on standby mode, press PROG button to select the operation mode. Every time you press PROG button, you will pass from one mode to the next.
The operation modes are detailed below.

Door status mode

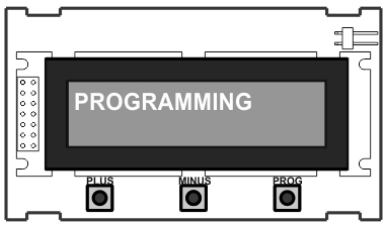
The first line indicates the status of the door (CLOSED, OPENING, OPENED, CLOSING)
The second line indicates the number of error, if there has been one.



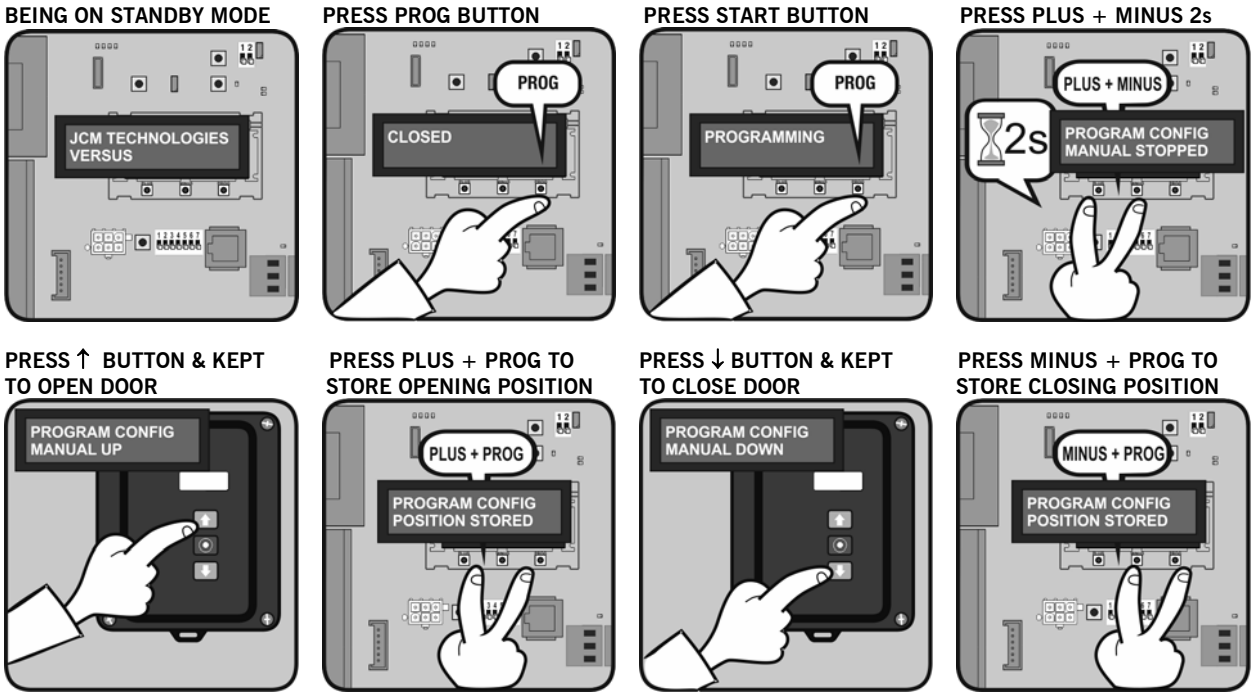
Programming mode

It allows programming the maneuver of the door.

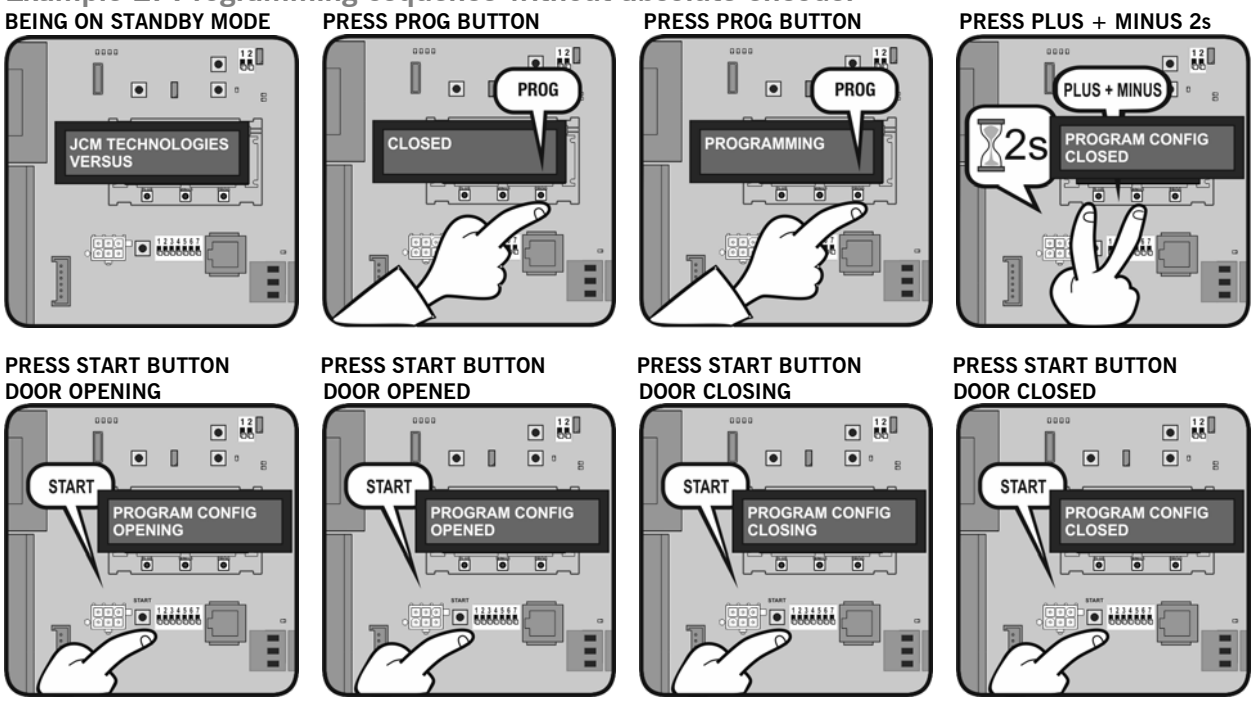
There are two possible ways of programming the maneuver (with absolute encoder or without it).



Example 1: Programming sequence with absolute encoder

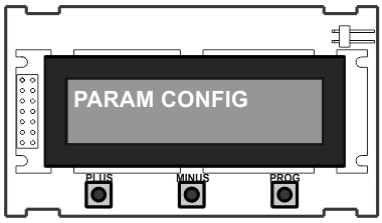


Example 2: Programming sequence without absolute encoder



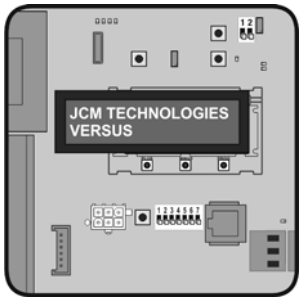
Param config mode

It allows editing all the parameters of the control panel and changing them.

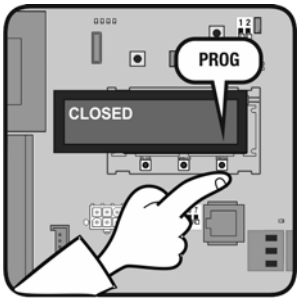


Example 1: EDIT INPUTS

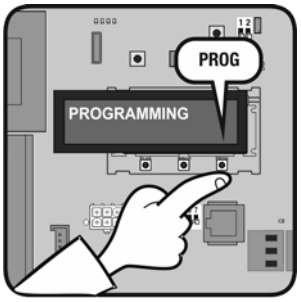
BEING ON STANDBY MODE



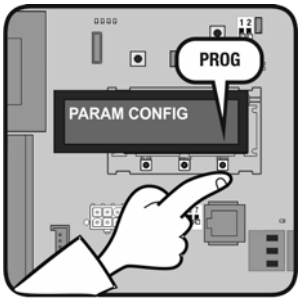
PRESS PROG BUTTON



PRESS PROG BUTTON

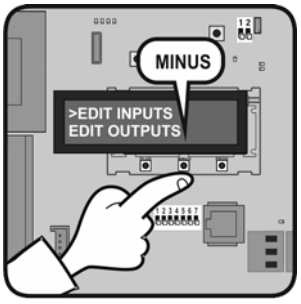


PRESS PROG BUTTON



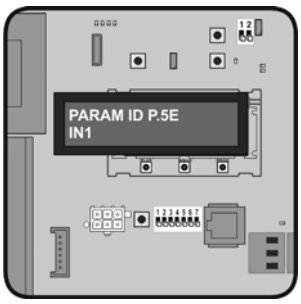
PRESS PLUS + MINUS 2s TO ENTER MENU

PRESS MINUS BUTTON TO GO DOWN THE MENU



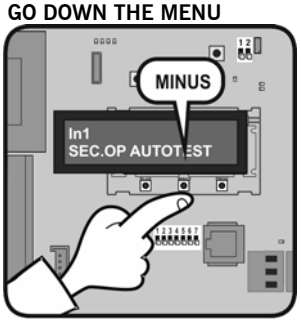
PRESS PROG BUTTON TO SELECT THE ">" OPTION

WAIT



PRESS PROG BUTTON

PRESS MINUS BUTTON TO GO DOWN THE MENU



PRESS PROG BUTTON TO SELECT THE DESIRED OPTION

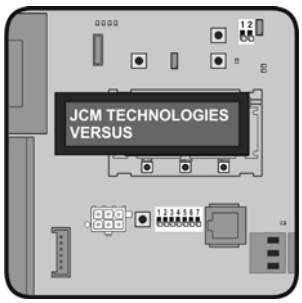
Example 2: EDIT NUMERICALS

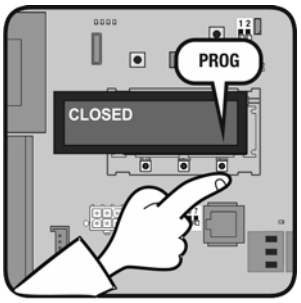
BEING ON STANDBY MODE

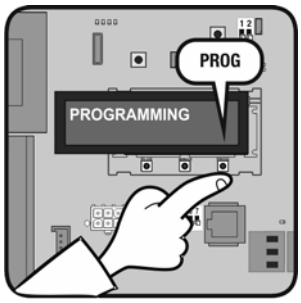
PRESS PROG BUTTON

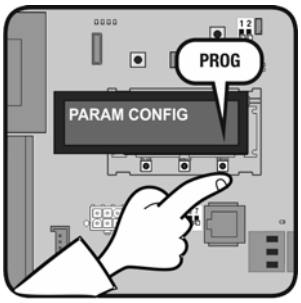
PRESS PROG BUTTON

PRESS PROG BUTTON



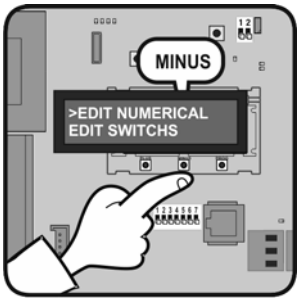






PRESS PLUS + MINUS 2s TO ENTER MENU

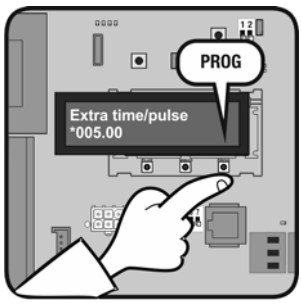
PRESS MINUS BUTTON TO GO DOWN THE MENU



PRESS PROG BUTTON TO SELECT THE ">" OPTION

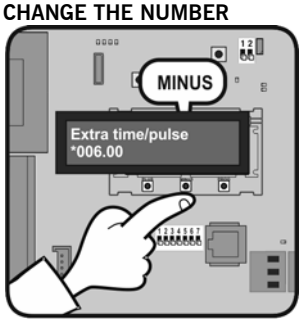
WAIT

PRESS PROG BUTTON

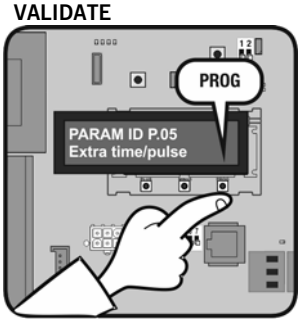


PRESS PLUS BUTTON TO SELECT A DIGIT POSITION

PRESS MINUS BUTTON TO CHANGE THE NUMBER

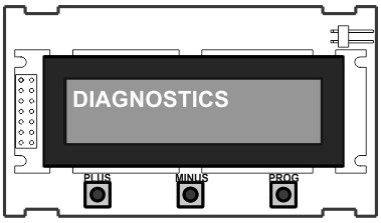


PRESS PROG BUTTON TO VALIDATE



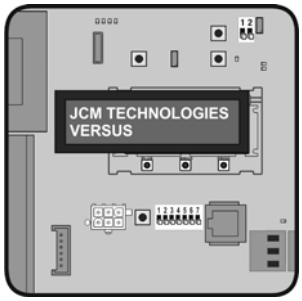
Diagnostics mode

It allows checking all the parameters of the control panel.

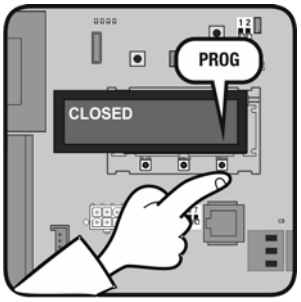


Example

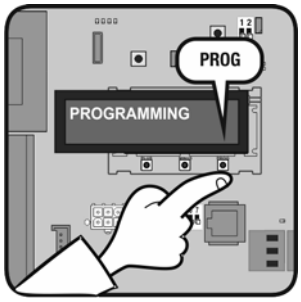
BEING ON STANDBY MODE



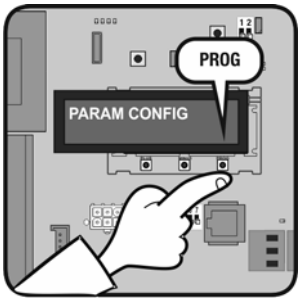
PRESS PROG BUTTON



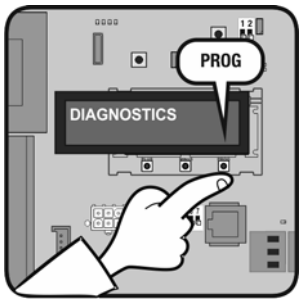
PRESS PROG BUTTON



PRESS PROG BUTTON

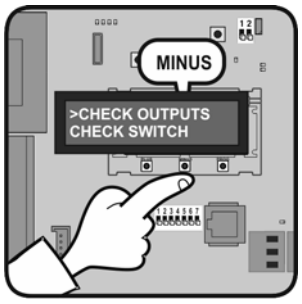


PRESS PROG BUTTON



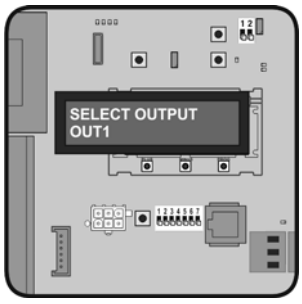
PRESS PLUS + MINUS 2s TO ENTER MENU

PRESS MINUS BUTTON TO GO DOWN THE MENU



PRESS PROG BUTTON TO SELECT THE “>” OPTION

WAIT

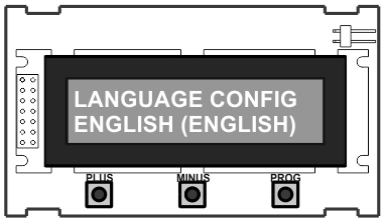


PRESS PROG BUTTON

WAIT TO SEE THE FUNCTION THAT HAS THIS OUTPUT

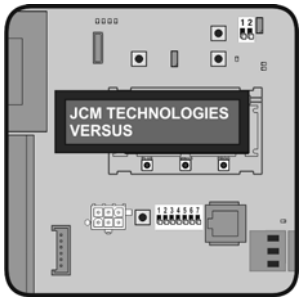
Language config mode

It allows changing the language of the V-LCD. There are three available languages in each control panel, different languages depending on the customization.

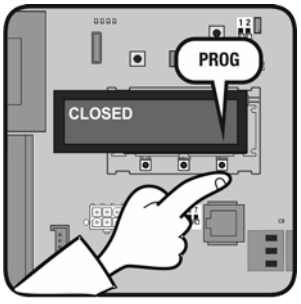


Example

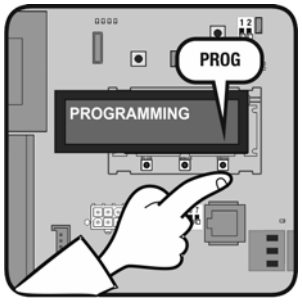
BEING ON STANDBY MODE



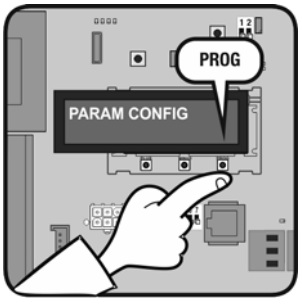
PRESS PROG BUTTON



PRESS PROG BUTTON



PRESS PROG BUTTON

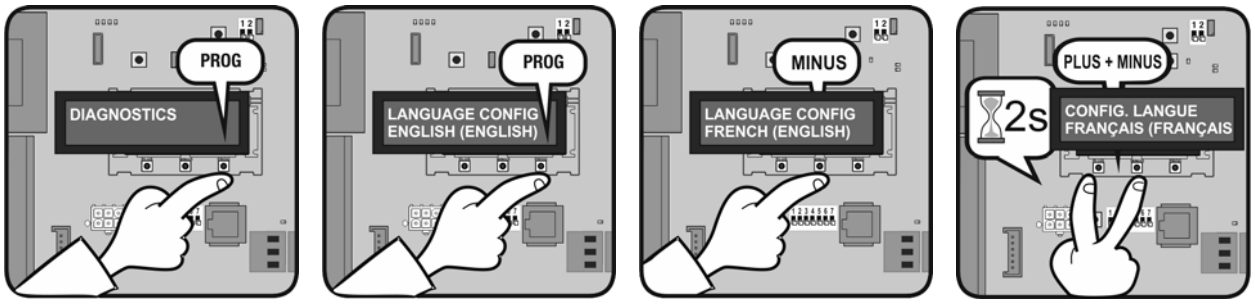


PRESS PROG BUTTON

PRESS PROG BUTTON

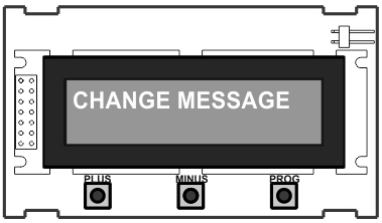
PRESS MINUS BUTTON TO GO DOWN THE MENU

PRESS PLUS + MINUS TO SELECT THE DESIRED OPTION



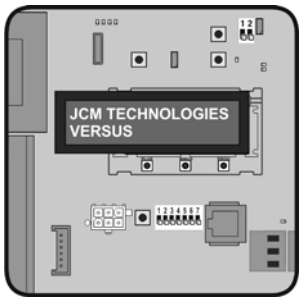
Change message mode

It allows changing the initial message of the V-LCD.

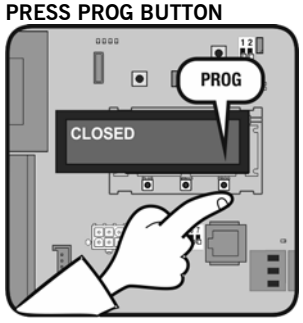


Example

BEING ON STANDBY MODE

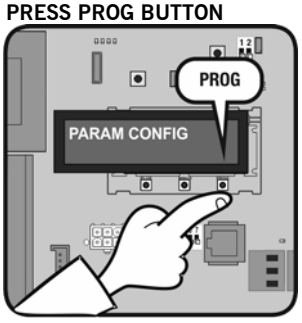


PRESS PROG BUTTON

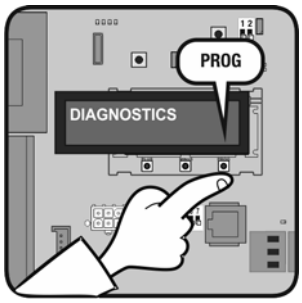


PRESS PROG BUTTON

PRESS PROG BUTTON

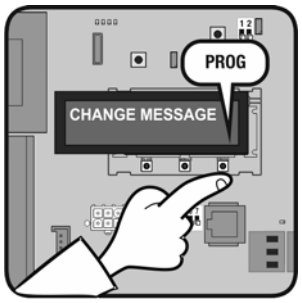


PRESS PROG BUTTON



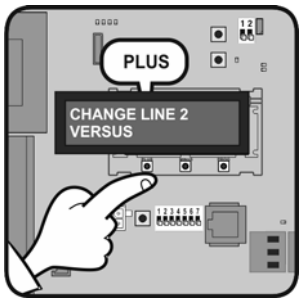
PRESS PROG BUTTON

PRESS PROG BUTTON

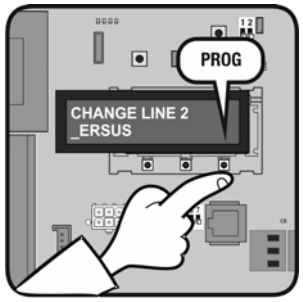


PRESS PLUS + MINUS 2s TO ENTER MENU

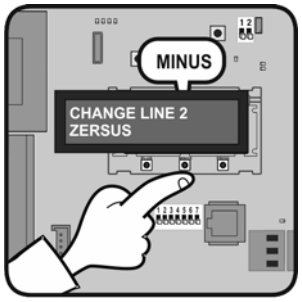
PRESS PLUS BUTTON TO CHANGE LINE 2



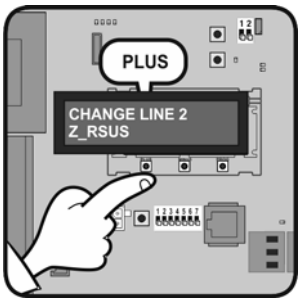
PRESS PROG BUTTON TO SELECT THE LETTER



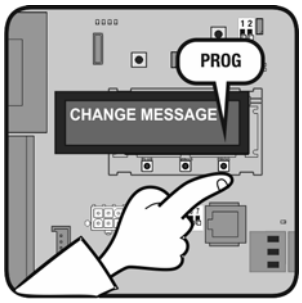
PRESS MINUS BUTTON TO CHANGE THE LETTER



PRESS PLUS BUTTON TO CHANGE POSITION



PRESS PROG BUTTON TO VALIDATE



Maintenance

Use of the system

This equipment is designed to be installed with Versus control panels. It is not guaranteed for directly activating equipment other than that specified.
The manufacturer reserves the right to change the specification of the equipment without prior warning.

JCM TECHNOLOGIES, S.A. declares herewith that the product **V-LCD** complies with the requirements of the 2006/42/CE Machinery Directive, as well as with the ones of the 2004/108/CE Electromagnetic Compatibility Directive and 2006/95/CE Low Voltage Directive, insofar as the product is used correctly.

EC Declaration of conformity

See web www.jcm-tech.com

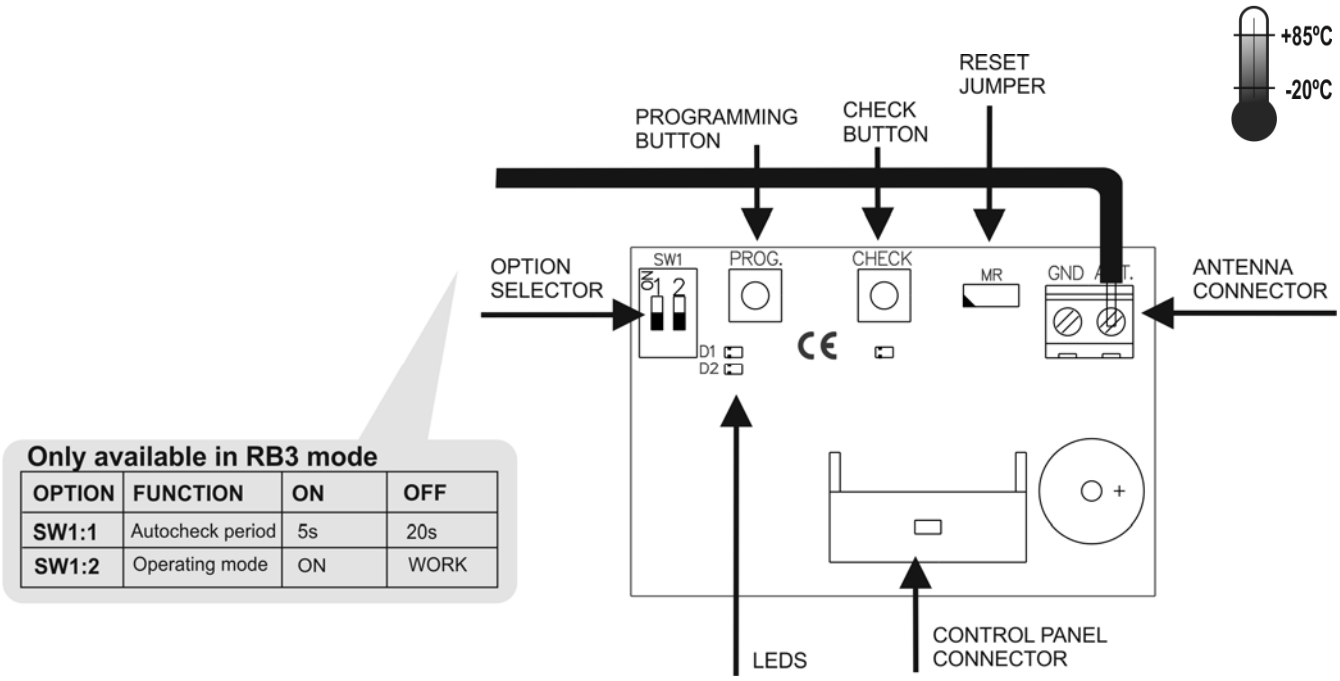
10.7 Radio Receiver RSEC3

Introduction

RADIOSENS system is designed for Fast doors and Flat-slat rolling shutters in an Industrial, Commercial or Residential environment. RADIOSENS is an impact detection system installed at the principal edge of the door. It works detecting any obstacle before the strength exceeds regulations limits and then inverting door movement.
RADIOSENS is a wireless system based on an RF transmitter and a receiver card plugged in the control panel which permanently monitors the status of the transmitter programmed.
The RadioBand system is designed of domestic, commercial and industrial door applications where a safety edge is used.
The system complies with the EN ISO 13849-1 standard, category 2, PLc.

Technical data

Frequency	Multifrequency system auto-adjustable 868 MHz
Memory	RS3: 1 transmitter; RB3: 6 transmitters (3 on closing, 3 on opening)
Standby / Operating consumption	Max 90mA
Radiated power	< 1mW
Size	82 x 190 x 40 mm
Range (in open field)	50 metres



Only available in RB3 mode

OPTION	FUNCTION	ON	OFF
SW1:1	Autocheck period	5s	20s
SW1:2	Operating mode	ON	WORK

Starting up

Mechanical installation

Connect the receiver to the control panel without power supply.

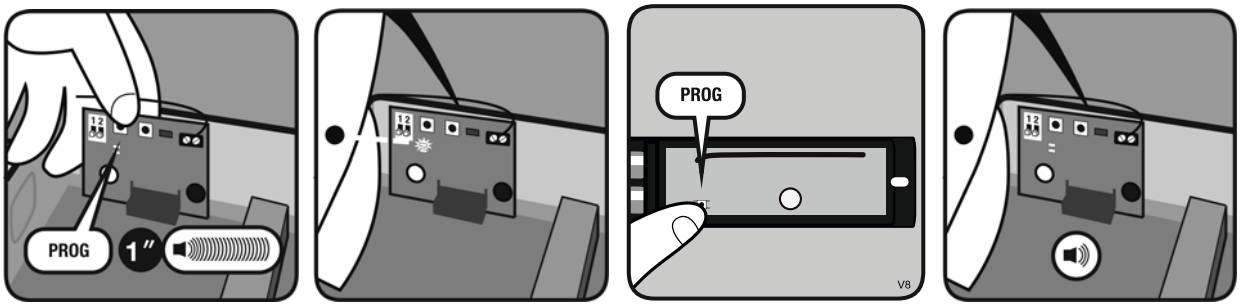
Memorizing transmitter into receiver

RS3 and RB3 systems are not compatible, so it cannot be stored in the same receiver.
In addition, a transmitter may be memorized only in one receiver.

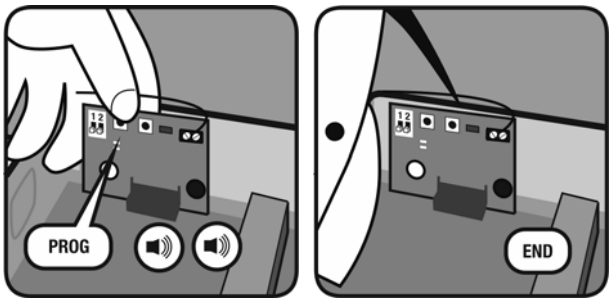
Memorizing RS3

Receiver only keeps a RS3 transmitter in memory at the same time. This is stored always as security on closing.

PRESS RPROG PUSHBUTTON **LED TURNS ON** **PRESS TRANSMITTER PROG** **ONE BEEP AND PROGRAMMED**



PRESS RPROG PUSHBUTTON **LED TURNS OFF AND END PROG**



Memorizing RB3

The receiver can memorize up to 6 transmitters RB3 (3 for security on closing and 3 for security on opening).

Before memorizing, place the options selectors in the desired position. Any subsequent changes will entail reprogramming.

Press PROG button and keep pressed until desired mode selected. Then follow the steps above.

Memorizing of one safety transmitter (IN1 input)

Mode	Configuration of transmitter memorizing in the receiver.	Led R1	Led R2
1	Safety edge activates relay 1 on the receiver	ON	OFF
2	Safety edge activates relay 2 on the receiver	OFF	ON
3	Safety edge activates the two relays 1 and 2 at the same time	ON	ON

Memorizing of two safety transmitters (IN1 and IN2 input)

Mode	Configuration of transmitter memorizing in the receiver.	Led R1	Led R2
4	Safety edge in IN1 activates relay 1 and safety edge in IN2 activates relay 2 (with switch SW1: 2 to OFF, the IN2 input is not tested)	Flashing	Flashing

Note: If you change the options selectors and the sensitivity after memorizing the safety devices, you must return to memorize these devices for the changes to take effect.

System programming

After memorizing of the desired transmitter, perform the programming of the control panel with the security element memorized. See **programming** section on control panel user's manual.

Note: If you change the position of transmitter RS3, you must perform the system programming again, otherwise RS3 will indicate a safety error, and the door will not work properly.

Maintenance

Table of message/error indication beeps and leds

LEDs perform a flash every 5 seconds, indicating that the equipment has a good power supply.

Equipment	D1/D2 Leds	Check Led	Beeps	Message / error	Solution
RSEC3	OFF	OFF	4 beeps every 20 seconds	Indicates RS3 transmitter low battery when trying to begin a manoeuvre	Verify the batteries of the transmitter
RSEC3	OFF	OFF	4 beeps every 20 seconds	Communication failure between RSEC3 and RS3 transmitter when trying to begin a manoeuvre	Verify the radio signal with the Check function.
RSEC3	---	---	14 continuous beeps	You are trying to store an RS3 and already has a RB3 stored, or vice versa.	Reset receiver's memory and store the desired device.
RSEC/R in Check mode	OFF	Led flashing according coverage table	1 beeps every 5 seconds	Communication via radio OK between RSEC3 and RB3 transmitter	---
RSEC/R in Check mode	OFF		3 beeps every 5 seconds	Communication failure between RSEC3 and RB3 transmitter	Verify the radio signal with the Check function.
VERSUS Control panel	Led ERR ON		No beeps	Any error	Use VERSUS-PROG to know the number of error

VERSUS Control panel	Leds INX ON		No beeps	INX Input connection error	Connect correctly or program the safety transmitter into the receiver
VERSUS Control panel	Leds INX ON		---	Safety input activated	
VERSUS Control panel	Leds INX flashing		---	Closing or opening with safety activated	

System Check (Check function)

Press the receiver's CHECK button for at least 1 second to enter check mode. The indicator light will come on and four beeps will be heard.
Perform a complete door opening and closing manoeuvre. During the system check a beep will be heard every 1,5 seconds.
To exit Check mode, press the CHECK button or wait 5 minutes. On exiting check mode, seven consecutive beeps will be heard and the indicator light will flash continuously.

If the communication fails:

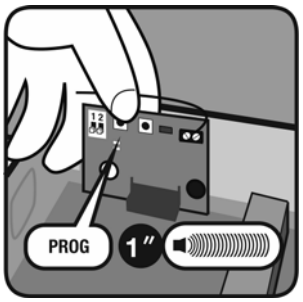
- In case you work with RB3, halt the door manoeuvre and press the safety edges installed to detect what has failed.
- In case you work with RS3, halt the door manoeuvre and check in operating mode (outside the Check function) that the D" green led indicates a coverage failure too.

Perform another system check until the result is correct.

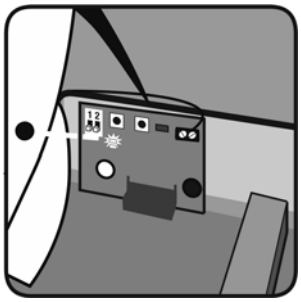
Press the safety edges	Nº flashes check led	Signal coverage	Result of check	Solution
Three consecutive beeps are heard	1	Very weak	Safety edge failure	Change the orientation of the transmitting-receiving aerials or install an AED-868 or FLAT-868 outdoor aerial to ensure the desired range.
	2	Weak	OK	The battery consumption will be higher
A single beep is heard	3	Normal	OK	
A single beep is heard	4	Good	OK	
A single beep is heard	5	Very good	OK	

Reset

PRESS RPROG PUSHBUTTON AND HOLD PRESSED



LED TURNS ON

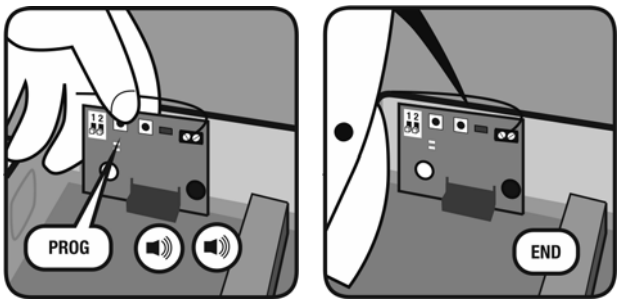


BRIDGE MR

SEVERAL BEEPS & END RESET

PRESS RPROG PUSHBUTTON

LED TURNS OFF & END PROG



Replacing a transmitter

If a transmitter becomes damaged the whole system must be reset and replaced, and non-damaged transmitters must then be re-programmed into the receiver.

Use of the system

The system is designed to be installed as specified in the introduction. Other applications than specified are not guaranteed.
Manufacturer reserves the right to change the equipment specification without prior warning

Important annex

Disconnect power supply whenever you proceed any installation or repair of the control panel.
In accordance with the European low voltage directive, the following requirements are informed:
· For permanently connected equipments, an easy-access connection device must be provided.
· This system must only be installed by qualified persons with experience in automatic doors/gates installations and with knowledge of the applicable EU standards.
· The instructions for use of this equipment must always remain in the possession of the user.
· System's work frequency does not interfere with the 868 MHz remote control systems.

JCM TECHNOLOGIES, S.A. declares herewith that the product **RSEC3** complies with the relevant fundamental requirements as per Article 3 of the R&TTE Directive 1999/5/EG, and complies with the relevant fundamental requirements of the 2006/42/CE Machinery Directive, as well as with the ones of the 2004/108/CE Electromagnetic Compatibility Directive and 2006/95/CE Low Voltage Directive, insofar as the product is used correctly.

EC Declaration of conformity

See website www.jcm-tech.com

10.8 Updator

DESCRIPTION

Accessory to update the firmware version of JCM products.
Updates the firmware: Receivers 500 codes, Access500, Access1000 and Access2000 Access Control Units, Prog-Man and Versus-Prog portable programmers, and control panels of the Versus gamma.

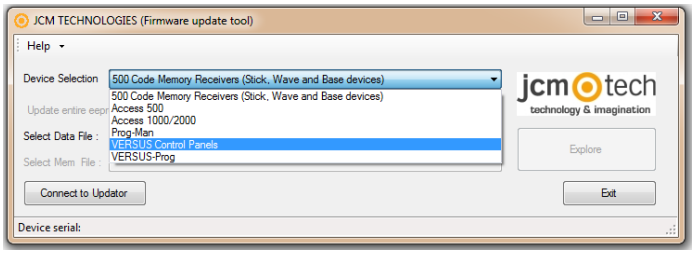
OPERATING

To download the latest version of firmware on the Updator, connect the Updator through a USB cable (type A - Mini B) to your PC and follow the prompts.

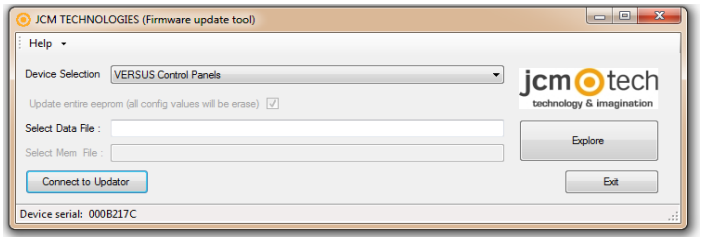
DOWNLOAD FIRMWARE TO UPDATOR

1 - Run Software "Firmware update tool" from the PC.

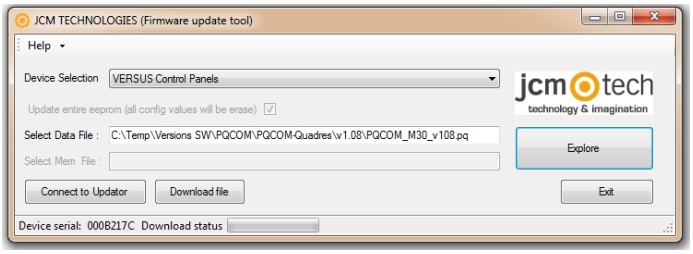
2 - On the main screen select, on the "Device Selection" option, the device that you want to update the firmware. If it is a receiver of 500 codes, an access control unit or the Prog-man portable programmer, you should insert the updating memory card in the Updator for the firmware to be downloaded to the card.



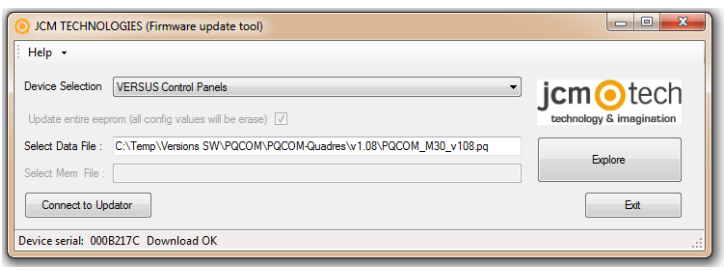
3 - Press the "Connect to Updator" and if the connection is correct, at the bottom of the window you will see the serial number of the Updator (Device serial).



4 - Using the "Explore" to choose the firmware file corresponding (with extension *.pq).



5 - Press the button "Download file" to download the chosen file to the device Updator. Wait until you finish the download process (the state is indicated by the bar "Download Status"). Once the process is finished, it is indicated in the bottom of the window by "Download OK".

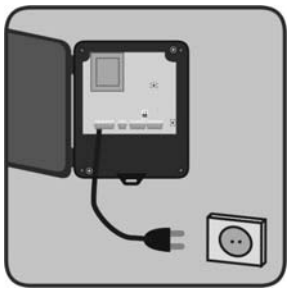


6 - Disconnect the Updator form the PC and proceed to update the device. If you downloaded the firmware on the updating memory card, when you insert the card into the device and feed it, the device will be updated with the new firmware. If it is a firmware update for a control panel, follow the instructions shown in the chapter "Upgrading VERSUS Control Panels."

UPGRADING VERSUS CONTROL PANELS

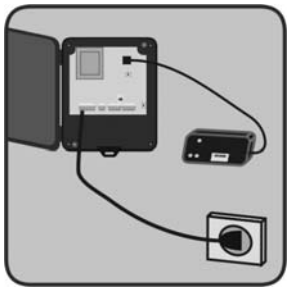
To update the firmware of the control panel with the version loaded on the Updator, connect the Updator through an Ethernet cable to the control panel via the RJ45 connector.

UNPLUG POWER SUPPLY



CONNECT UPDATOR

PLUG POWER SUPPLY



LED'S FLASHES

WAIT 10S → UPGRADING OK

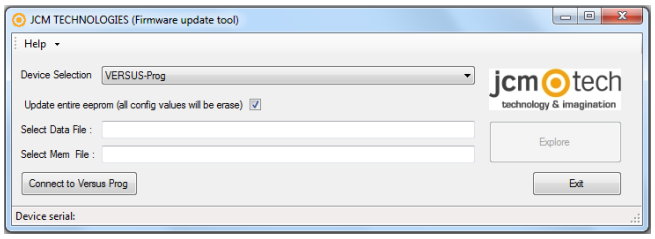
Note: It is important to remember that when the firmware upgrading is done, the control panel will lose all the settings stored before and will return to the factory values by default.

UPGRADING VERSUS-PROG PORTABLE PROGRAMMER

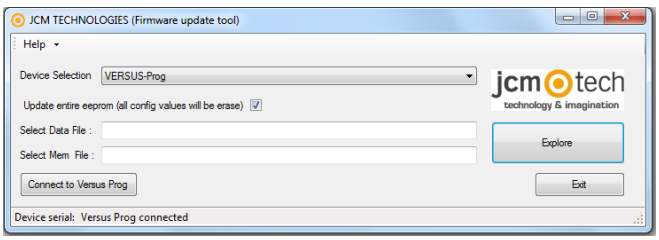
To download the latest version of firmware on a handheld programmer, connect the Versus-Prog through a USB cable (Type A - Mini B) to your PC and follow the prompts.

1 - Run the software "Firmware update tool" from the PC.

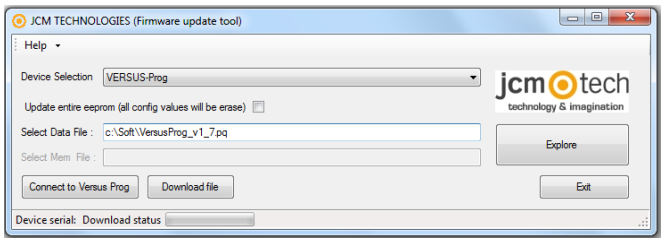
2 - On the main screen select, on the "Device Selection" option, the Versus-Prog device.



3 - Press the button "Connect to Versus Prog" and if the connection is correct, at the bottom of the window you will see "Device Serial: Prog Versus connected".



4- Using the "Explore" button, choose the firmware file (with extension *.pq). Then the program will request the firmware update file from memory (with extension *.mem). This second file will update the parameters of the programmer to default settings or factory parameters. If you want to keep the current settings, click on the box "Update entire eeprom" to deselect this option.

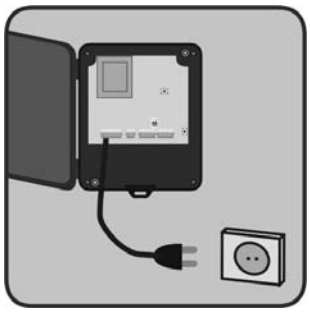


5 - Press the button "Download file" to download the chosen file to the device Updator. Wait until you finish the download process (the state is indicated by the bar "Download Status"). After the process, in the bottom of the window "Download OK" is indicated.

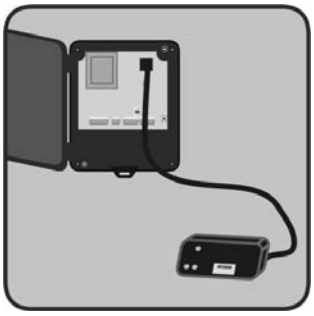
UPGRADING V-LCD ACCESSORY

To update the firmware of the V-LCD accessory with the version loaded on the Updator, the V-LCD must be connected to the control panel. Connect Updator through an Ethernet cable to the control panel via the RJ45 connector

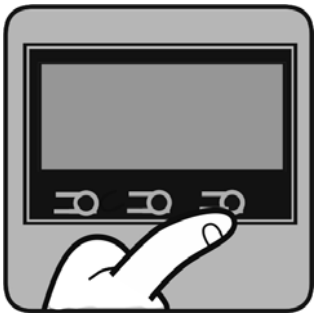
UNPLUG POWER SUPPLY



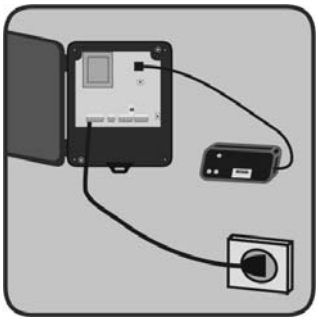
CONNECT UPDATOR



PRESS THE V-LCD RIGHT BUTTON



PLUG POWER SUPPLY



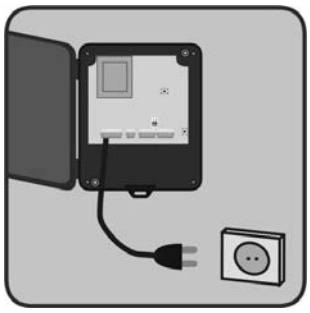
UPDATING ON SCREEN DURING UPGRADING PROCESS

END UPGRADING, UPDATE COMPLETED ON SCREEN

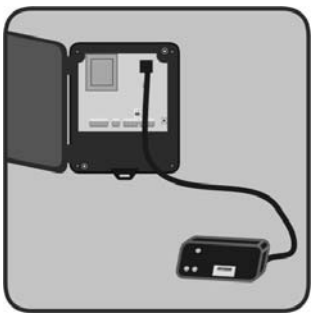
UPGRADING V-GSM ACCESSORY

To update the firmware of the V-GSM accessory with the version loaded on the Updator, the V-GSM must be connected to the control panel. Connect Updator through an Ethernet cable to the control panel via the RJ45 connector.

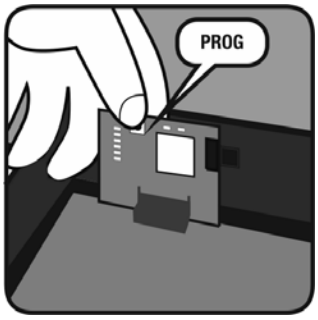
UNPLUG POWER SUPPLY



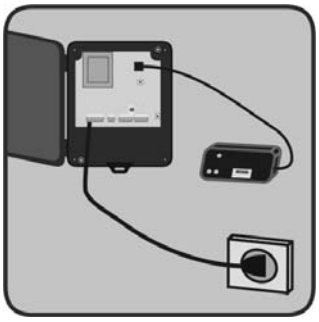
CONNECT UPDATOR



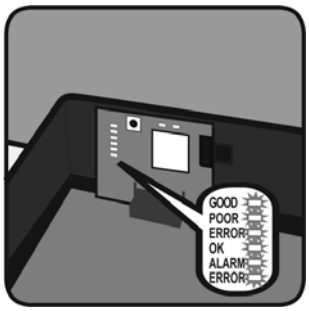
PRESS THE V-GSM RIGHT BUTTON



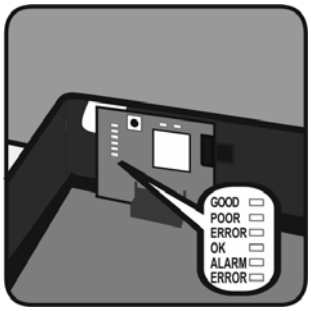
PLUG POWER SUPPLY



FLASHES DURING UPGRADING PROCESS



END UPGRADING, LEDS OFF



11. SAFETY INSTRUCTIONS FOR INSTALLATION

Disconnect the power supply whenever you proceed to the installation or repair of the control panel.

· The panel must be installed while the power is disconnected.

· Before installing the panel, remove all unnecessary ropes or chains and disable any equipment such as locks that is not necessary for the automatic operation.

· Before installing the panel, check that the door is in good mechanical condition, correctly balanced and that it opens and closes correctly.

· Install the manual unlocking device at a height lower than 1.8m.

· Install any permanent control next to the door away from any moving part and at a minimum height of 1.5m.

· For permanently connected equipment, an easily accessible power disconnection device must be incorporated into the wiring. It is recommended that this be of the emergency switch type.

· If the control panel is supplied without emergency stop button, this will be incorporated in the installation, connecting it to the STOP terminal.

· For correct use of the security edge, this must never be activated when the door is fully closed. It is wise to install the ends of run before activating the edge.

· This equipment can only be handled by a specialist fitter, by maintenance staff or by a suitably trained operator.

·To connect the power supply and motor wiring, 2.5 mm2 section terminals must be used.

· Use protective goggles when handling the equipment.

· Fuses must only be handled when the appliance is disconnected from the mains.

· The instructions for using this equipment must remain in the possession of the user.

· European door normative EN 12453 and EN 12445 specify the following minimum protection and door safety levels:

- for single-family dwellings, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and in the case of automatic closing, it is necessary to complement this with a presence detector (e.g. photocell).

- for communal and public installations, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and complement this with a presence detector (e.g. Photocell)

12. SAFETY INSTRUCTIONS FOR THE USE

· Do not allow children to play with the door controls.

· Keep the remote controls out of the reach of children.

· Watch the door movement and keep people away until the door is fully open or closed.

· Precaution when operating the manual unlocking device, as the door may suddenly fall due to the bad condition of the springs or door unbalance. Details on how to use the manual unlocking device must be provided by the manufacturer or the device installer.

· Examine the installation frequently, especially the cables, springs and supports, to detect signs of wear, damage or unbalance. Do not use the door if repair work or adjustments are required, as this may cause damage.

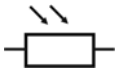
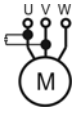
13. SAFETY INSTRUCTIONS FOR MAINTENANCE

ANNEX A: SYMBOLOGY

In this annex you can find all the related symbology that is used in this manual.

Connections

- Normally closed contact 
- Normally open contact 
- 8k2 resistive safety edge 

- Optical safety edge 
- 8k2 / Optical safety edge 
- Light 
- Single phase motor connection 

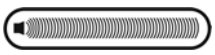
- Three phase motor connection 

Drawings

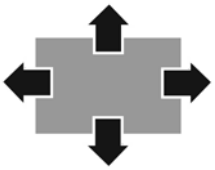
- Courtesy light 
- Flash 
- Motor 

- Stop pushbutton 

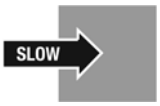
- Pedestrian pushbutton 

- Parachute 
- Electrolock 
- Transmitter photocell 
- Receiver photocell 
- Opening safety edge 
- Closing safety edge  
- Autoclosing time 
- Lock 
- Unlock 
- Writen indication 
- Led turned on 
- One beep 
- One beep long 
- Several beeps 
- Screw units/metric 

- Movement arrows



- Slow movement arrow



- Pedestrian entry

- Vehicle entry

- Industrial entry