User manual:

PR17 High speed door self-repairable.

Content .

01 – Introduction

This manual is the guide for the correct use and maintenance of the high-speed rolling door model **PR17** and is the original document in Spanish. Any discrepancies with a version translated into another language must be consulted with this original manual. The information contained in the manual is valid from the date of its publication until the publication of a new revision.

The photographs and drawings are illustrative and, therefore, this information may vary slightly from the actual component by ***INKEMA SISTEMAS, SL***

The colors displayed in this manual may differ from the actual colors due to different printing methods.

This manual is aimed at people involved in the daily operation, preventive maintenance and possible repairs of the high-speed door. Only personnel trained and duly informed of the possible risks are authorized to use and maintain the high-speed door.

Compliance with the instructions contained in its content ensures a long life of the door and compliance with safety regulations prevents the most common accidents that may occur during work or maintenance.

The instructions contained in this manual cannot, by themselves, make the job safe and do not exempt the user from observing the safety code or local or national law, rule or regulation.

01.01 – Warranty

The warranty for the high-speed door is ONE YEAR from the date of billing.

This guarantee includes the free replacement and installation of all those elements that have been proven useless due to a defect in material or manufacturing.

Failures or defects caused by the following reasons are excluded from this guarantee:

- Due to misuse of the equipment,
- Due to lack of maintenance,
- Due to accidents beyond the control of the equipment,
- Due to abrasion, shocks and/or impacts,
- Due to contact with acids and other corrosive elements,
- Due to wear and tear due to use.

Likewise, any change or manipulation of the product not authorized in writing by **INKEMA SISTEMAS, SL** will motivate the cancellation of the warranty period.

Any door repair or advanced maintenance work not carried out by **INKEMA SISTEMAS, SL** It will also cause a cancellation of the warranty period.

INKEMA SISTEMAS, SL Technical Service must be notified as soon as possible, and depending on the degree of failure or defect, the high-speed door must be made unusable until it has been repaired.

Likewise, it is highlighted that the following elements are exempt from the guarantee once handled:

- Electronic boards: once connected to power, burnt transformers due to network surges must be claimed from the energy supplier.
- Toothed canvas zipper: the breakage of one or more teeth of the zipper located on the sides of the canvas is due to an impact on it. In case of loss of multiple teeth, the door loses the function of automatic guidance of the canvas.
- Motors, reducers and electrical panels: although the panel or machine can be ordered in different materials and surface finishes, no material or surface finish guarantees the tightness of the motor and electrical installation when pressurized liquids are thrown onto them . If this type of cleaning is used, water may enter the interior, short circuits may occur and the device may burn, posing a danger to the safety of users.

INKEMA SISTEMAS, SL declines all responsibility for any possible accidents that may occur for this reason and for damage to the electrical components of the high-speed door.

The owner is reminded that, in accordance with the General Law for the Defense of Consumers and Users and other complementary laws (Royal Legislative Decree 1/2007 BOE-A-2007-20555), the owner and user must inform **INKEMA SISTEMAS, SL** of the lack of conformity within a period of two months from when he became aware of it. Failure to comply with said deadline will not entail the loss of the right to the corresponding sanitation, with the owner and user being responsible, however, for any damages or losses actually caused by the delay in communication.

01.02 – Responsibilities

The **manufacturer** must make available to the owner, once the high-speed door has been installed and its proper functioning has been verified, the following documentation:

a) Operating instructions.

b) Routine maintenance instructions.

c) Maintenance book.

The **owner** is responsible for the correct use of the high-speed door, even by third parties, and must comply with the following concepts:

a) Confirm the final verification of the high-speed door together with the installer, as well as the receipt of the documents related to the manufacturer's responsibility.

b) Train and instruct users and maintenance operators in the safe use of the high-speed door, in accordance with the information provided in this manual and current legislation.

c) The periodic maintenance recommended by the manufacturer as well as the procedures, warnings and advice contained in this manual.

d) If this manual is lost during the life of the high-speed door, you must request another copy of it from the manufacturer, mentioning the serial number and related order number on the high-speed door label. It is completely necessary and mandatory that the manual is always accessible so that it can be consulted at any time or if there is a question regarding its use.

e) Inform **INKEMA SISTEMAS, SL** , as soon as possible, of the breakdown or non-conformity of the high-speed door for its prompt repair, as well as proceed to block it in the event that the non-conformity is a potential danger to safety.

Consult the Technical Department in case of doubt or discrepancy.

02 – Security.

The rapid rolling door model PR17 has been designed in accordance with the European Directives:

- **2006/42/EC** . Machinery Directive.
- **2014/35/EU** . Electrical Material Directive to be used with Low Voltage.
- **2014/30/EU** . Electromagnetic Compatibility Directive .
- **EU 305/2011** . Regulation on Construction Products.

And it has been tested and certified in accordance with the following standards:

- **EN 12445:2001.** Commercial, industrial garage doors and gates. Safety of use of motorized doors. Test methods.
- **UNE-EN 12605:2000.** Industrial, commercial and garage doors and gates. Mechanical aspects. Test methods.
- **UNE-EN 12604:2000.** Commercial, industrial garage doors and gates. Mechanical aspects. Requirements.
- **UNE EN 12444:2001:** Industrial, commercial, garage doors and gates. Resistance to wind load. Test and calculation.

- **UNE EN 12424:2000.** Commercial, industrial garage doors and gates. Resistance to wind load. Classification.

02.01 – Security instructions.

This high-speed door has been designed and manufactured to meet the highest levels of safety, however, the manufacturer declines all responsibility for possible material damage, failures or accidents that may have occurred during the operation or installation of the product and that are a consequence of non-compliance. of the instructions and recommendations contained in this manual.

- Carefully read the instructions in this manual before using the door or carrying out maintenance actions.
- Electrically disconnect the door before any maintenance work.
- The door must be handled only by authorized personnel who have been previously trained and informed.
- It is prohibited to remove safety and warning pictograms, if any.
- Make sure that there are no people within the range of action of the high-speed door before use.
- The high-speed door safety equipment must never be disconnected or dismantled from the high-speed door during service.
- In case of door malfunction, disconnect it electrically and immobilize it in the upper or lower position depending on the owner's needs.
- Modifications or alterations to the door will be made only with written authorization from the manufacturer. These changes must satisfy all safety recommendations of the original equipment.
- The instructions contained in this manual cannot, by themselves, make work safe and do not exempt users from observing local, national and international safety code, law or regulation.
- Disconnect and lock the high-speed door once the validity date of the preventive maintenance actions marked as Important in the Maintenance Chart has expired.
- The use of the high-speed door as a means of lifting people or objects, as well as any other use other than opening and closing the passageway, is strictly prohibited.

Respect for safety regulations prevents the most common accidents that may occur during the use and maintenance of the product.

02.02 – Safety and warning instructions.

Figure Figure 1shows and describes the symbols used in this manual.

Figure 1. Symbols.

In addition to the symbols shown in Figure 1, the notes in Figure 2 will be used in this manual. Depending on the level of risk involved in non-compliance with the instructions contained in each note, one type of note or another is used.

DANGER	CAUTION	IMPORTANT

This is a high level statement. Failure to follow instructions will most likely result in serious injury or death.	This is a mid-level statement. Failure to follow the instructions contained therein will most likely result in the possibility of personal injury.	This is a low level statement. instructions contained therein are not followed, the most likely consequences will be material damage.

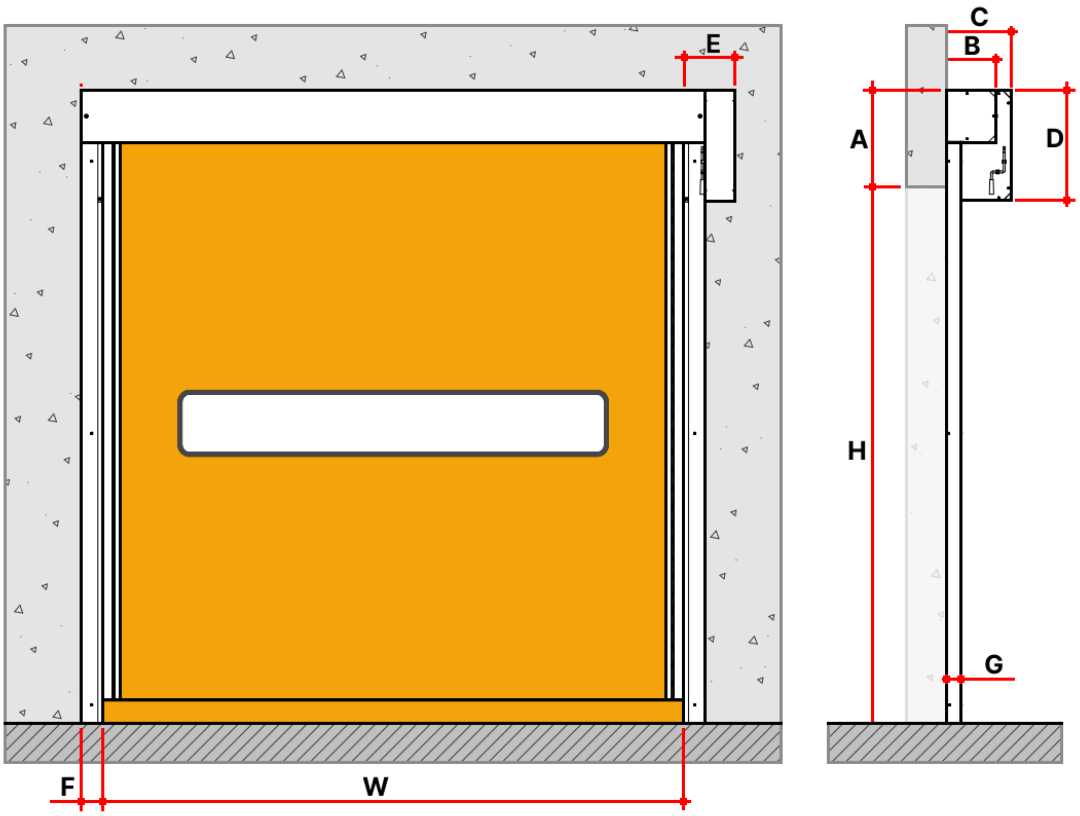
03 – Technical characteristics

03.01 – Features and limits of use

Characteristic	*Value or range*	*Unit*
DOOR		
Application	Exterior / Interior (Medium level of tightness)	
Minimum gap	Width= 1400 ; High=2100	mm
Maximum gap	Width= 3000 ; High=3000	mm
Opening speed (average speed)	1.5	m/s
Closing speed (average speed)	1	m/s
Work temperature	Between -5 and 40	ºC
STRUCTURE		
Material	S-275	
Finish	Lacquered	
CANVAS		
Tissue	AT 1100 dtex polyester	
Covering	2 SIDED PVC	
Density	900	g/m^2
Finish	Color lacquered on two sides	
Thickness	0.8	mm ^{2}
Tensile strength	400	daN /5cm
Tear resistance	fifty	daN
Adherence	10	daN /5cm
Work temperature	Between -30 and +70	ºC
Flame retardant level	M2	
CONTROL UNIT		
Feeding	220V AC +/- 10%	V
Accessory power outlet	12DC/500	V/mA
auxiliary contact	YES (tension free)	
Flash light output	220/10	GOES
Automatic closing time	From 1 sec to 1000 min	
Cabinet material	ABS	
Dimensions	L280 x W186 x H90	mm
Controls	Push button (UP/STOP/DOWN)	
LCD screen	YEAH	
Tightness	IP54 (IP65 with cable gland)	
Protection level	IP65	
Opposite engine side button panel	YES (ALT/STOP button)	
current disconnector	NO	
Working temperature	Between -20 and 50ºC	
SAFETY TRANSDUCERS		

Primary security	Photoelectric sensor curtain	
ENGINE		
Feeding	3~230/400	V
Output torque	35 or 80 (depending on door size)	Nm
Exit speed	130 or 112	rpm
Engine power	0.55 or 1 (depending on door size)	kW
Frequency	50 or 60	Hz
Rated current	3.45 or 5.6 (depending on door size)	TO
Protection index	IP54	
Work temperature	Between -5 and 60	ºC
Continuous sound pressure level	<70	dB
Weight	Approx. 18	kg
EXTRA OPTIONS		
Magnetic field	*(Optional)*	
Single channel remote control	*(Optional)*	
Two-channel remote control	*(Optional)*	
Quad-channel remote control	*(Optional)*	
Volumetric radar	*(Optional)*	
Additional button panel	Yeah	
Shooter	*(Optional)*	
Photocell opening	*(Optional)*	
Extra safety photocell	*(Optional)*	
Engine cover	Yeah	
Intermediate stoppage	*(Optional)*	
Uninterruptible Power Supply (UPS)	*(Optional)*	
Acoustic light warning	*(Optional)*	
Acoustic warning (buzzer)	*(Optional)*	
Ultrasonic detector	*(Optional)*	
Pre-frame	*(Optional)*	

03.02 – Dimensions



	H	W	A	B	C	D	E	F	G
Min.(mm)	2100	1400	480	265	335	560	340	110	82
Max.(mm)	3000	3000							

Figure 2. Limit dimensions for PR17LDA door.

04 – Instructions for use.

04.01 – Expected use

The high-speed door is intended to close an opening in a building and is intended to give access to people or vehicles.

The door must be completely open to be able to go through it.

04.02 – Incorrect use

Any other use different from that mentioned in section "04.01 – Intended use" will be considered incorrect use.

Incorrect use of the high-speed door is expressly considered to be:

- Hanging and/or lifting objects, animals and/or people using the door mechanism.
- Hold or press using the door mechanism.

The manufacturer is not responsible for any damage of any nature that may have been due to improper use.

It must be taken into account that corrosive and aggressive environments: conditions with acid and/or caustic, can negatively influence the operation and safety of the high-speed door.

04.02.01 – Safety risks due to improper use

- Do not manipulate the control panel or the motorization to increase or reduce the speed of movement of the high-speed door.
- Do not modify the high-speed door or any part of it.
- Do not operate the high-speed door after suffering a blow to the structure, the canvas or any of the safety elements until technically competent personnel have verified its correct operation.
- Do not attempt to operate the high-speed door if its operation is interrupted due to a fault. Immobilize the door and contact the **INKEMA SISTEMAS technical service SL** for repair and verification of correct operation.
- Do not carry out work on the door control panel or drive system without disconnecting the power supply.

04.03 – Mode of use.

The high-speed door operates by manually activating a system of buttons that activate, through the electrical panel, the gear motor, which rotates the shaft, rolling or unrolling the PVC canvas.

At the beginning of the day, before the first operation, visually inspect the door and make sure that there are no defects in the structure, canvas, motorization or safety elements.

Before raising or lowering the door, make sure that there are no people or objects in its operating area .

04.03.01 – Door opening

In the standard configuration, a dark green button is placed on each side of the door to facilitate bidirectional passage (Figure 7). One of them is fixed on the control panel (1) and the other button on the button panel, which is located on the other side of the door (2) in the most suitable passage place. Thus, by pressing either of the two, the door opens instantly.

04.03.02 – Door closing

manual closure

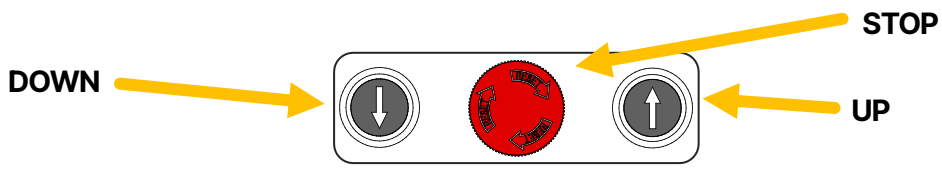
The high-speed door can be closed using a manually operated push-button system.

Before pressing the button, make sure that the area of influence of the door is free of obstacles.

Press and release the down button and check that the door performs the closing maneuver until it reaches its fully closed position.

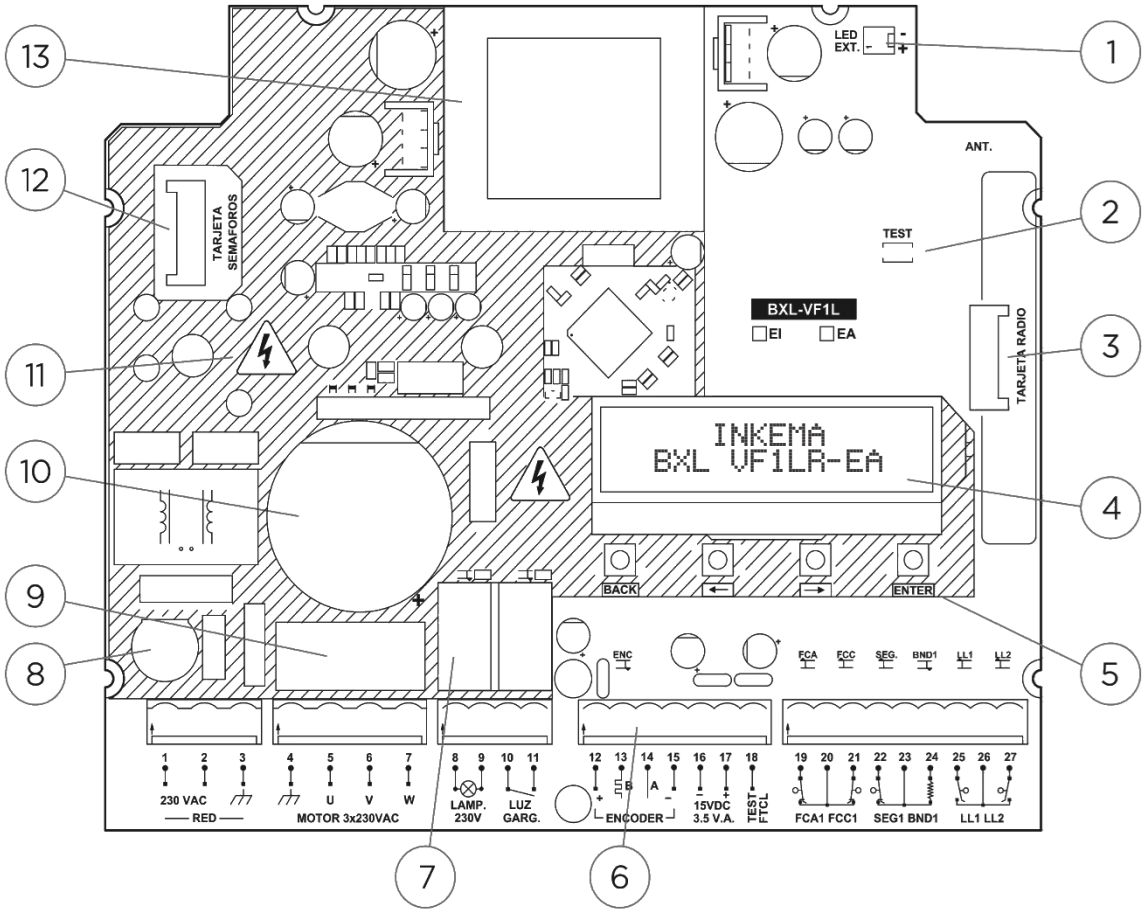
automatic closing

If the automatic closing function is activated, the open door closes after the programmed time has elapsed. If the Stop function is activated, the automatic closing stops. If the door is open and the transit photocell is intercepted or the OPEN key is pressed, the automatic closing time is set to zero (the counter is reset).



04.03.03 – Control panel: INKEMA S BXL-VF1LR-EA S

Feeding	230VAC
Maximum load	1hp / 0.75kW
AC main fuse	6A
Voltage output	15VDC 3.5W
Work temperature	-20ºC / 70ºC
Dimensions	L280 x W196 x H90mm
Weight	1600g
Tightness	IP54 (IP65)



1. Led cover connector
2. TEST push button
3. Radio card socket
4. LCD screen
5. Selection keypad
6. Connection terminal block
7. Auxiliary output relays
8. AC power input fuse
9. Bus load relay
10. Bus capacitor
11. High voltage zone 230VAC
12. Traffic light card socket
13. Power transformer

DESCRIPTION:

The INKEMA S BXL-VF1LR-EA S control panel is designed to be part of an up-and-over, ascending or sliding door automation system, with a 230VAC three-phase motor.

The box has the following characteristics:

- Control of 1 three-phase 230VAC motor up to 0.75kW (delta connection).
- Intuitive multilingual programming menu using 4 keys and backlit LCD screen.
- Support for 1-channel incremental encoder in the VF1L version and absolute encoder in the VF1L-EA version.
- Independent regulation of power and speed in opening and closing.
- Configurable test of safety devices before each opening or closing.
- Two independent key entries for different activation modes.
- Output for 230V flash lamp and output for garage light contact reprogrammable to other functions.
- SMINN radio card socket (6 pin).
- Independent inputs for a photocell and a band (resistive or contact) or a second photocell.
- LEDs indicating the status of the inputs and outputs of the panel.
- Voltage output for peripherals of 15VDC (3.5W) protected by resettable fuse .
- Optocoupled inputs with high electrical isolation.
- Storage of number of maneuvers (partial and total) and events to facilitate maintenance. Maintenance signal configurable on external LED.
- Maneuver learning system that facilitates start-up and configuration.
- Obstacle detection with configurable sensitivity by amperometric sensor and/or encoder.

IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION

Before installing the box:

- Check that the door/shutter is in good mechanical condition and well counterbalanced.
- Remove everything that is not necessary from the environment and turn off the AC power
- Proceed to install the panel at a minimum height of 1.5 m. preferably next to the door.
- Use power and motor cables of adequate section.
- Power the panel through a circuit breaker/emergency switch that is easily accessible by the user.

IMPORTANT SAFETY INSTRUCTIONS FOR USE

Once the mechanism is installed and as a prevention, the user must:

- Keep control of the mechanism out of the reach of children.
- Monitor the movement of the door, keeping the area free of people and objects.
- Act with caution when handling the door manually (unlocked) as it can move without control, due to its weight , the state of the fixings, springs and counterweights.

If a system malfunction is observed, the user must IMMEDIATELY contact technical support. You should not use the mechanism as it may cause damage.

SETTING

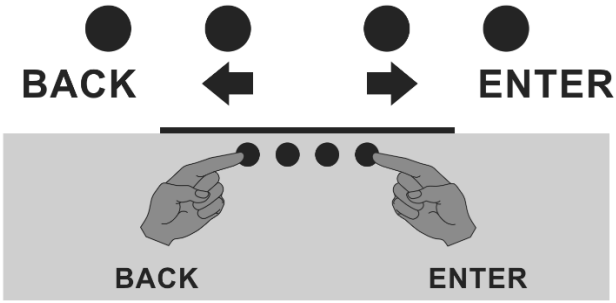
To facilitate the configuration and maintenance of the panel, it has an advanced menu system accessible through an integrated 4-key keyboard and data presentation on a backlit LCD display that allows the panel to be configured in a simple, fast and intuitive way.

Press the BACK + ENTER keys simultaneously to access the configuration menu. The LCD will light up. To move through the menu the box has 4 keys which are:

While using the setup menu, both lines of the display are normally used; In one of them, the < and > symbols will appear at the ends to indicate that the user is browsing that line. When navigating in the top line you navigate

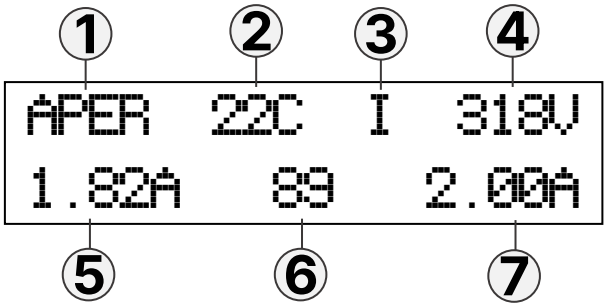
between menus and parameters (the current value appearing if applicable in the bottom line). Navigating the line below navigates between the possible values of the selected parameter, shown in the upper line.

Therefore, the <- / -> keys are used to move between the elements of the current navigation level, the ENTER key is used to select an element or validate the selection of a value, and the BACK key is used to cancel the modification of a parameter and in general, go back.



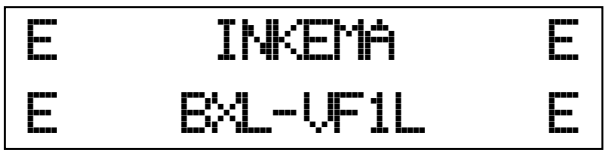
SCREEN

The LCD screen on the panel shows different useful values during the maneuver for the installer while testing the automation.



1. Current phase.
2. Frame temperature.
3. Input inhibition indication.
4. Bus voltage.
5. Current electricity consumption.
6. Stroke percentage / Pause time remaining.
7. Maximum current maneuver consumption.

Out of maneuver, on the main screen, the box may show four E's in the corners to indicate that one or more error records are stored. Upon entering the menu, the box will show each of the records, waiting for the installer to press ENTER to read each one.



ERROR LOG

The panel stores the incidents or errors that occur while it is powered, accumulating them until the next time the installer enters the configuration menu. When there are issues to review in the log, the box will display an E in each corner of the screen to indicate this. Possible errors are listed below with a brief explanation.

SEG1/SEG2 TEST FAILURE

The security test on the indicated photocell has failed. Check the connection of the photocell and its power.

ERROR CONFIGURATION

An error has been detected in the configuration data storage memory. If the error persists, contact technical service.

LOG ERROR

An error has been detected in the history data storage memory. If the error persists, contact technical service.

ENGINE OVERCONSUMPTION

A motor consumption greater than the configured limit has been detected.

DC IGBT MOTOR

A short circuit has been detected in the circuit that provides power to the motor.

DC MOTOR

A short circuit has been detected in the quick cut safety circuit.

OBSTACLE MOTOR SENS

A collision with an obstacle has been detected by the sensitivity of the amperometric sensor. If no collisions have occurred, reduce parameter M1 SENSIB .

ENC ENGINE OBSTACLE

Collision with an obstacle has been detected by encoder. If no collisions have occurred, reduce the M1 SENS parameter. ENC.

OBSTACLE ENGINE LIM

A collision with an obstacle due to a consumption limit has been detected. If no collisions have occurred, reduce parameter M 1 LIM. PRES.

ENCODER STOP

It has been detected that the motor has stopped rotating through the encoder. This can occur due to interlocking or stop.

LACK OF LEARNING

It is mandatory to perform a learning maneuver before being able to perform maneuvers normally.

FOOT SEC.

At least one safety is active before starting the maneuver.

HIGH IGBT TEMPERATURE

The power circuit temperature has risen above the safety limit.

LOW BUS VOLTAGE

The frame does not receive enough external voltage or the motor absorbs more energy than the frame can deliver.

TICKETS NOT AVAILABLE

The input reading circuit has stopped working. If the problem persists, contact technical service.

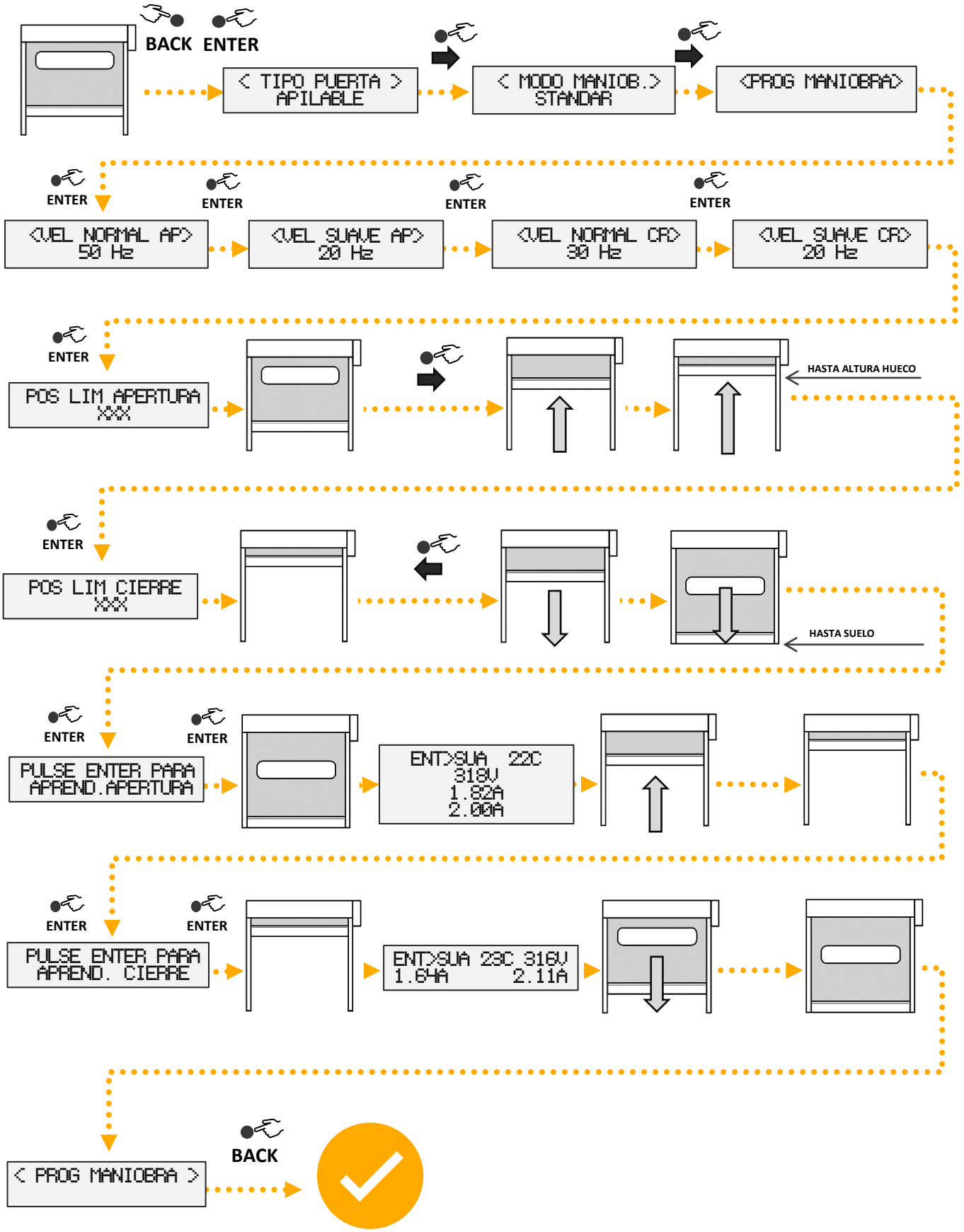
ENCODER NOT AVAILABLE

The encoder reading circuit has stopped working. If the problem persists, contact technical service.

ENCODER ERROR

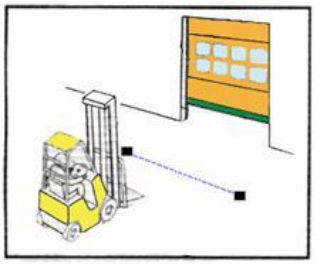
One or more erroneous encoder readings have occurred. Check the connections and good condition of the encoder.

QUICK SETUP

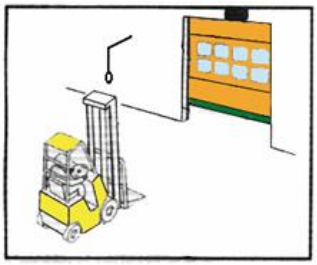

BACK
ENTER
< TIPO PUERTA >
APILABLE
< MODO MANIOB.>
STANDAR
<PROG MANIOBRA>
ENTER
ENTER
ENTER
ENTER
<VEL NORMAL AP>
50 Hz
<VEL SUAVE AP>
20 Hz
<VEL NORMAL CR>
30 Hz
<VEL SUAVE CR>
20 Hz
ENTER
POS LIM APERTURA
XXX
HASTA ALTURA HUECO
ENTER
POS LIM CIERRE
XXX
HASTA SUELO
ENTER
ENTER
PULSE ENTER PARA
APREND.APERTURA
ENT>SUA 22C
310V
1.82A
2.00A
ENTER
ENTER
PULSE ENTER PARA
APREND. CIERRE
ENT>SUA 23C 316V
1.64A 2.11A
BACK
< PROG MANIOBRA >

04.03.04 – Opening options

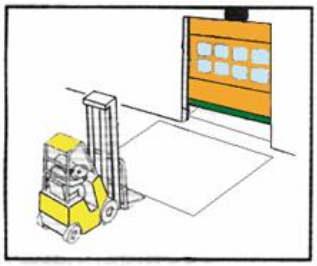
The different opening systems that can be attached to high-speed doors are described below:



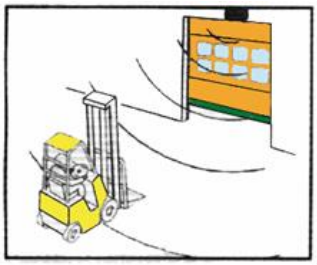
Photocell : When any object passes, it interrupts the light beam between the photocell and the mirror and, as a result, the door rises.



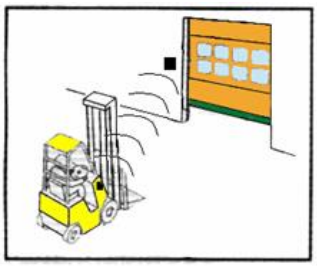
Ceiling handle : by activating an elastic rope attached to the ceiling, which in turn activates a switch, the rapid door opening is activated.



Magnetic field detector : by installing a magnetic field, when the passage of a metal mass across its surface is detected, the door rises.

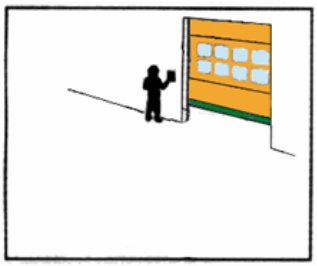


Volumetric radar : it is activated by the movement of people and/or vehicles. The drive distance can be adjusted.



Remote control : single channel / two channel / four channel .

Radio transmitter : it is operated by radio frequency transmitters.



Additional button panel : it is operated by pressing a button.

04.04 – Security

- Safety photoelectric curtain. It acts during the closing of the door, as long as it is automatic. When it detects an object that cuts the beam sequence between transmitter and receiver, it will reverse the motor maneuver and the door will raise automatically. The barrier or curtain defined between the photocells is only activated in the range of free passage, so the sensors are deactivated as the canvas descends.

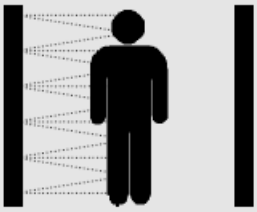
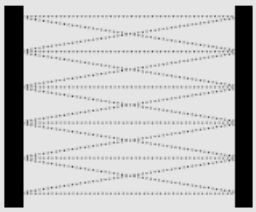
Output Logic			
Detection	Output mode	Output status	Output indicator (yellow led)
Present 	Light operated (N.C.)	Open	Off
Absent 	Light operated (N.C.)	Closed	On

Figure 3. Operation of the barrier photocell.

- Run timer. It acts both when opening and closing the door. If either maneuver exceeds the set time during the installation process, the affected maneuver will be stopped.

04.05 – Opening or closing the door in case of power failure

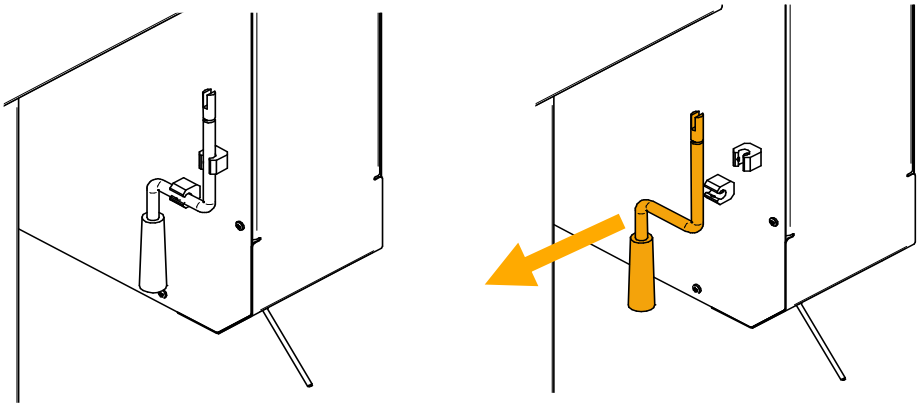
If the door is equipped with a UPS uninterruptible power supply system, it will open automatically when the power failure occurs, and will remain open until the power supply is restored.

For installations in which there is no UPS, the door is provided with a motor with declutch and manual operation by crank.

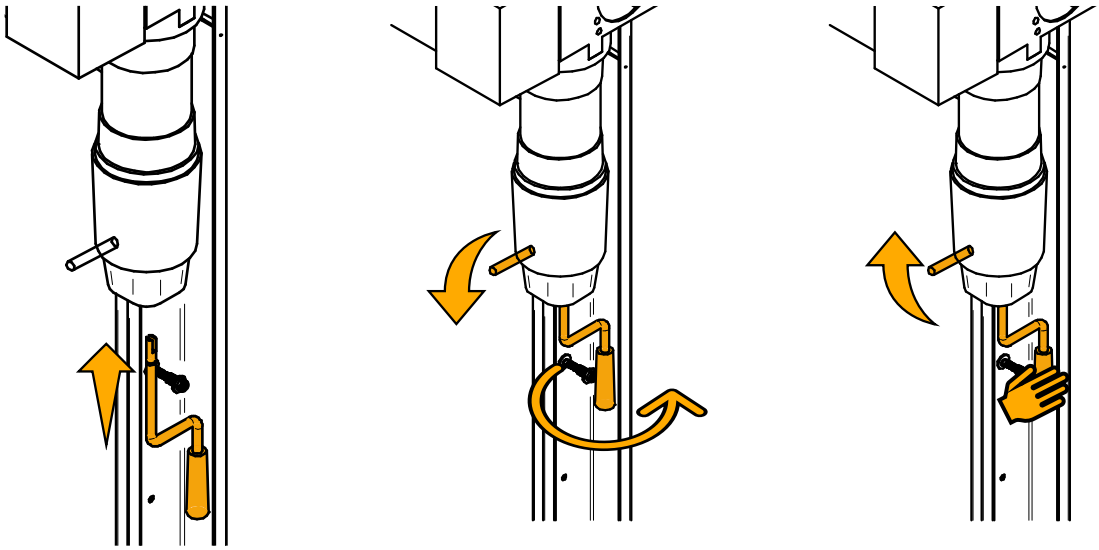
Whether the door was open, closed or moving at the time of the failure, the brake built into the motor stops the door from moving immediately.

If the position in which the door was left after the failure is not convenient, it can be operated manually:

1. Disconnect the main power supply to the door, to avoid unexpected start-ups in the event of a power return.
2. Wait 15 minutes until the frequency converter capacitors have completely discharged.
3. Remove the crank from its housing.



4. Insert the crank into the bottom of the motor and turn it gently until you feel it click into place.
5. Firmly lower the brake lever while turning the crank to move the door to the desired position.



6. Release the brake lever, without releasing the crank.
7. Remove the crank and store it in its housing.

The door can be operated normally once the power supply is restored. Remember to reconnect the power to the door.

05 – Maintenance

The correct operation and long life of the door depend largely on the preventive maintenance carried out.

Advanced maintenance can only be carried out by the **INKEMA SISTEMAS Technical Service. SL** or personnel approved by it.

This maintenance is carried out so that the product retains the safety and use characteristics that it has at the time of installation.

Greasing, painting and continuous monitoring are the best guarantee of good performance for many years.

05.01 – Security measures.

At all times, the provisions of occupational health and safety regulations must be followed, whether national, local or specific to the user.

05.02 – Preventive maintenance table.

Preventive Maintenance Interventions	Advanced YES / NO	Diary	Each month	1 year	2 years
General cleaning and surveillance	NO	■			
Safety photoelectric curtain cleaning	NO		■		
Guidance system settings	YEAH			■	
Transmission lubrication/regulation	YEAH			■	
Retightening the support, frame and counterweight screws (optional).	NO			■	
Lubricate guides with Vaseline or plastic lubricant.	NO			■	
General review of mechanical transmissions, winding and unrolling, as well as canvas fixings	YEAH				■

If you find defects or deficiencies in the operations described below, block the door by cutting off the power and contact INKEMA SISTEMAS SL to proceed with the repair of the door.

Only original spare parts provided by the manufacturer should be used in the repair of the door. The use of other parts from other manufacturers would represent a change not authorized by the manufacturer.

Advanced maintenance: It can only be carried out by the Technical Service of INKEMA SISTEMAS SL or personnel approved by it, who is specifically prepared for the work to be carried out.

Non-advanced maintenance: It can be carried out by personnel without specific competence, but they must have been sufficiently informed and trained by the owner.

05.02.01 – Cleaning and surveillance.

It is very important to maintain general surveillance and cleaning of all the elements of the door, especially when it is located in dusty, corrosive environments or with significant condensation due to changes in temperature.

05.02.02 – Cleaning the safety photoelectric curtain.

The pair of photocells (emitter and reflector), located on both sides of the door, will be cleaned monthly. However, if due to the environment or the conditions in which the door is located, this review and cleaning has to be intensified, it is left to the discretion of the user to reduce the intervals for carrying out the maintenance to what is considered necessary so that the door operate correctly.

A clean, dry cloth shall be wiped over the transmitting/receiving surfaces of the photocells.

If, between maintenance periods, the detection is reduced due to soiling, the yellow LED in the reflector starts to flash. Proceed with cleaning as described above.

05.02.03 – Checks of security systems.

On a monthly basis, it must be verified that the security systems are working correctly.

For the safety band, an object will be placed in the downward path of the door to check that the door stops and reverses movement.

For photocells, the light beam will be cut off during the movement of the door to check if the door reverses, closing safety photocell, or stops opening, opening safety photocell.

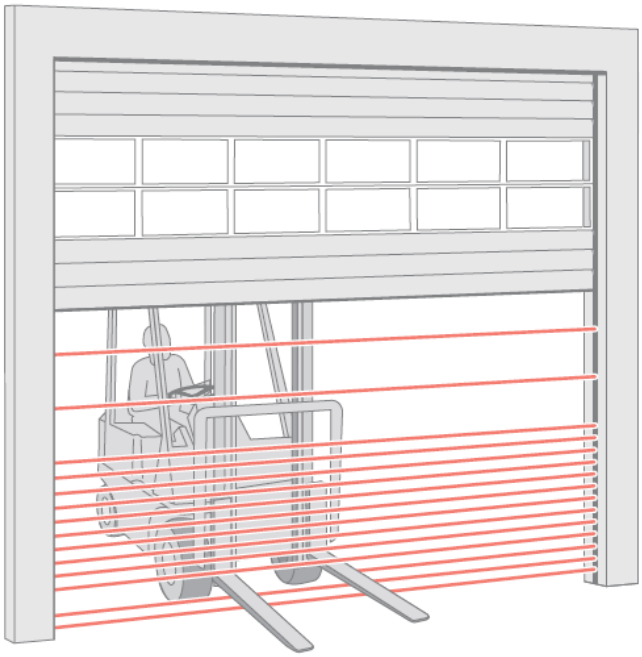


Figure 4. Operation of the safety photoelectric curtain.

06 – Maintenance Book

To be completed by the installer at the time of installation:

06.01 – Installation data

Maker	INKEMA SISTEMAS SL Cardedeu C-251 Highway, Km3, 08520 Les franqueses del Vallès – Barcelona – Spain Tel. 935 44 47 08 E-mail: inkema@inkema.com www.inkema.com
Installer	
Company	INKEMA SISTEMAS SL Cardedeu C-251 Highway, Km3, 08520 Les franqueses del Vallès – Barcelona – Spain Tel. 935 44 47 08 E-mail: inkema@inkema.com www.inkema.com
Installation location	
Business name	
Address	
Phone	Fax
Responsible	
Post	
e-mail	

Installation date	
Installer Signature	Signature of acceptance Responsible

Space reserved for attaching the door identification sticker

06.02 – Final verification test

OPERATION	C ONFORM	OBSERVATIONS AND RECOMMENDATIONS
Centered and level door		
Correctly graduated opening and closing limits		
Security systems work correctly		
Closing safety photoelectric curtain		
Run timer		
Second downward passage photocell (optional)		
Clearance lights (optional)		
Closing systems work correctly		
Automatic		
Manual – Man present		
Check opening system		
Button panel		
Remote control		
Shooter		
Photocell		
Magnetic switch		
Volumetric radar		
General review of the condition of the paint		
Delivery of the User Manual to the owner with the Installation Data (06.01) and Final Verification Test (06.02) duly completed and compliant		

06.03 – Record of interventions.

The user must record in writing, either on computer or paper, all maintenance interventions, both preventive and corrective.

The record must contain the result of the intervention, with the name, date and signature of the person who performed it and an observations section where, if applicable, the person's comments will be specified in reference to suggestions for improvement or possible interventions. maintenance as a result of what was observed in their intervention.

REGISTER OF MAINTENANCE INTERVENTIONS

Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer	Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer
Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer	Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer
Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer	Date .... /..../....... Order N ° .... Signature INKEMA Signature Customer
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06.04 – Tasks and frequency of maintenance interventions

Metallic structure	
Fixings - readjust screws	Every 6 months
Engine: Check the condition and wear of the brake, and check the release cam	Every 6 months
Engine: Checking the engine fixing screws	Every 6 months
Winding shaft: Readjust the bearing fixings.	Every 6 months
Canvas: Check that it does not have cuts or areas with great wear	Every 6 months
Canvas: Check the fixings of the canvas with the winding axis.	Every 6 months
Canvas: Check the condition of the zipper , as well as the wear areas of the guide.	Every 6 months
Lateral guides: Check the fixation and condition of the guides.	Every 6 months
Side guides: Observe the wiring fixation.	Every 6 months
Lateral guides: Check the condition and operation of the photocell.	Every 6 months
Lateral guides: Clean the optics of the photocell barrier.	Every 6 months
Electrical panel and complementary automations	
Check the status of all connections.	Every 6 months
Check the main switch and the closure of the electrical panel.	Every 6 months
Check the fixings.	Every 6 months
Check the opening and closing positions of the door.	Every 6 months
Check the fixation and operation of the limit switches.	Every 6 months
Carry out a visual check and look for any mechanical damage defects.	Every 6 months
Check the operation and condition of the engine while running.	Every 6 months
Examine the behavior of the curtain.	Every 6 months
UPS Power System: Perform proper battery maintenance	Every 3 months

07 – Disassembly

During the disassembly of the door, the provisions of occupational health and safety regulations must be followed, whether national, local or specific to the user.

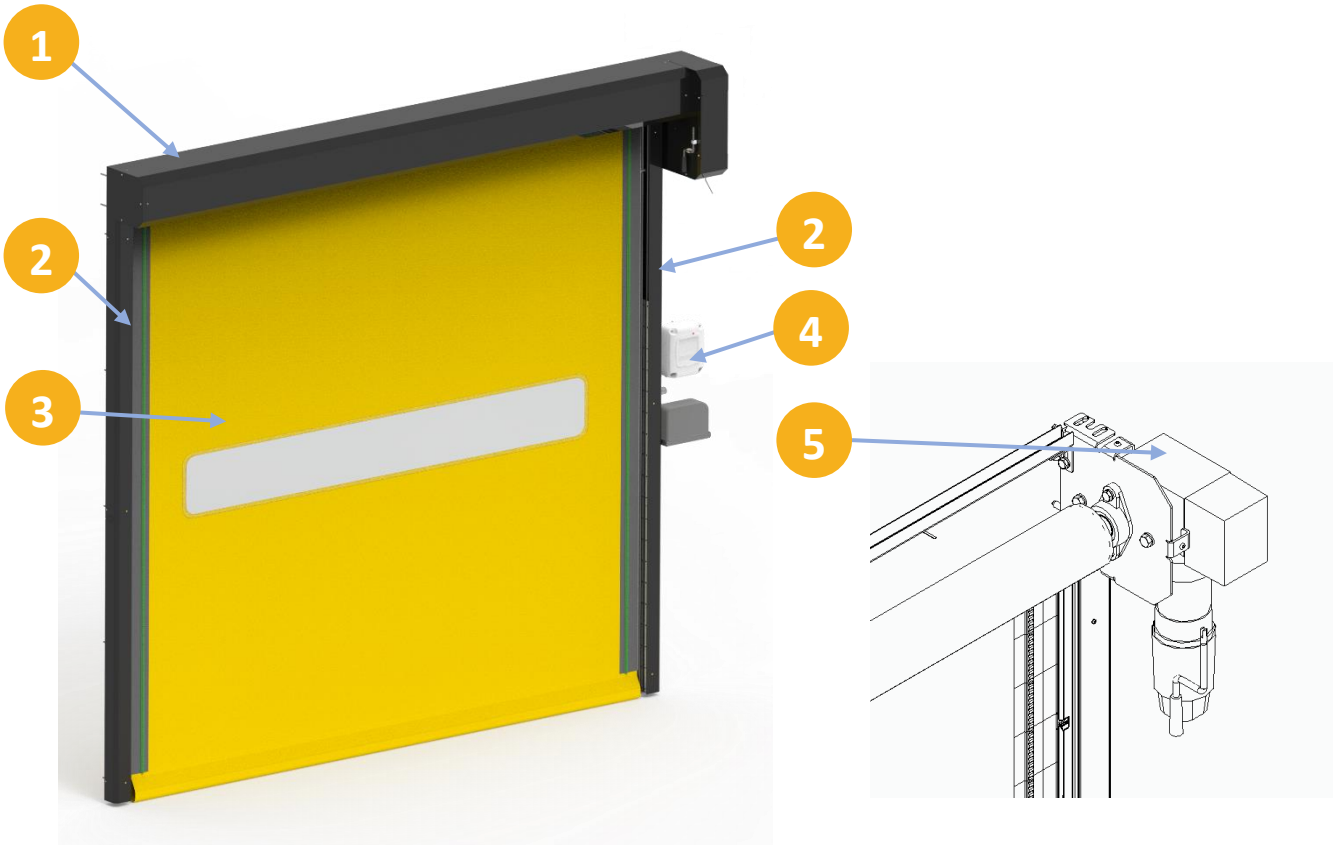
The process to follow is the opposite of what is provided in the PR17 Rapid Door Installation Manual.

08 – Modifications or improvements

Any subsequent modification or improvement of the door after receipt must be carried out only if the door thus modified allows compliance with all the relevant standards listed in UNE-EN 13241.

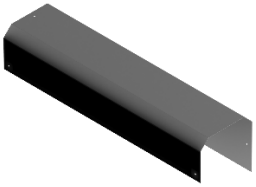
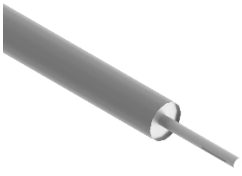
Such modification or improvement must be carried out exclusively by ***INKEMA SISTEMAS, SL personnel*** or authorized by it. During the modification or improvement process, a modification/transformation sheet must be prepared according to Annex C (informative) of the EN 12635 standard.

09 – Spare parts list

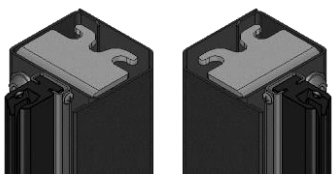


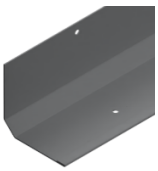
GENERAL LIST OF SPARE PARTS

1 – Head Assembly

Ref. **10FRAME** PR17 head assembly		Ref. **10REC008998** PR17 top cover	
Ref. **10RECTAMBORPR** Drum and shaft welding set		Ref. **2002** Oval bearing Ø30	

2 - Side sets

Ref. **10 RECEIVER FRAME** Right side assembly PR17	

Ref. **10REC007155** PR17 Side Cover		Ref. **2015** Photocell barrier 2590mm	
Ref. **2016** Photocell barrier 2220mm		Ref. **2017** 2030mm photocell barrier	
Ref. ____ Barrier-Frame connection cable	 **5 mtrs**	Ref. ____ Barrier-Barrier Extension Cable	 **3 mtrs**
Ref. ____ Barrier-Barrier Extension Cable	 **1 mtr**	Ref. ____ Barrier-Barrier Extension Cable	 **10 mtrs**

3 - Canvas Set

Ref. **10RECLONAPR**

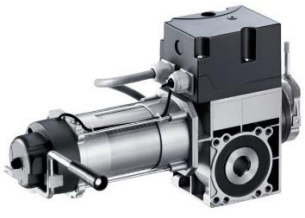
Canvas and components set PR17

4 – Control panel

Ref. **9015** Control panel		Ref. **9014** UPS	

5 – Engine and accessories

Ref. **1970**
PR17 engine



Ref. **2022**
Engine box connection hose **5** meters

Ref. **2023**
Engine box connection hose **7** meters

Ref. **8970**
Engine box connection hose **11** meters

10 – Certificate

CE

SUMMARY OF THE DECLARATION OF CONFORMITY

We: **INKEMA SISTEMAS, SL**
Cardedeu C-251 Highway, Km3
0 8520 Les Franqueses del Vallès (Barcelona – Spain)

We declare under our sole responsibility that the rapid rolling door model PR17

Brand: **INKEMA**
Model: **PR17**

It is in compliance with the following directives and regulations:

2006/42/EC	Machinery Directive
2014/35/EU	Directive on Electrical Equipment to be used with Low Voltage
2014/30/EU	Electromagnetic Compatibility Directive
EU 305/2011	Regulation on Construction Products

It has been calculated and designed in accordance with the following harmonized technical standards:

UNE-EN 13241-1	Industrial, commercial, garage doors and gates. Product standard.
UNE-EN 12635	Industrial, commercial, garage doors and gates. Installation and use.
UNE-EN ISO 12100	Machine safety. General principles for design. Risk assessment and risk reduction.

And complies, where applicable, with the following Technical Standards:

UNE-EN 349, UNE-EN 60204-1, UNE-EN 61000-6-2, UNE-EN 61000-6-3, UNE-EN 61000-6-4, UNE-EN 12453, UNE-EN 12604, UNE -EN 12605, UNE 85635 and DIN 4102

Notified organism :

Number 0370 - **LGAI Technological Center, SA**
Compliance verification system: **Type 3**
Report number : **23/32302206ENS**
Maneuver Forces: **PASS**
Safe opening of vertical doors: **PASS**

If changes or alterations have been made to our product without written authorization from us, this declaration of conformity is automatically invalidated.

11 – Contact

Contact with us.

INKEMA España

Carretera de Cardedeu, C-251 - Km3
Polígon Industrial Ramassar Nord
08520 Les Franqueses del Vallès
Barcelona (Spain)
Tel: +34 93 544 47 08
Fax: 93 572 30 11

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Contact us for any queries you may have on:
93 544 47 08