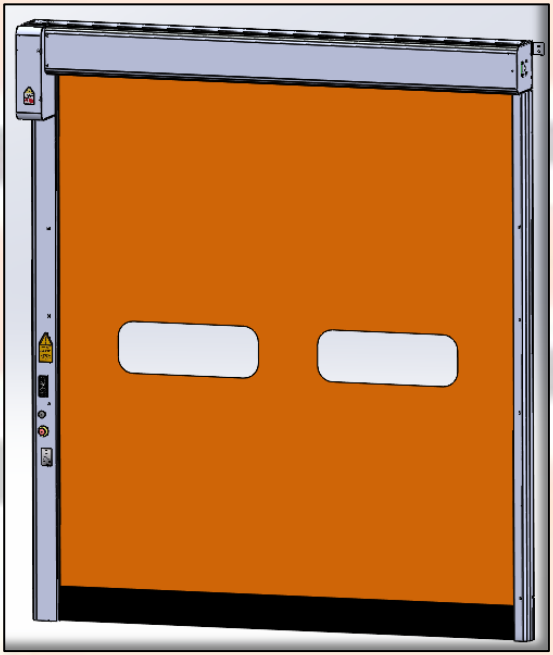
INSTALLATION, USE AND MAINTENANCE MANUAL



VERTICAL ROLL-UP HIGH-SPEED DOOR
SELF-REPAIRING

Models: **FlexiRun® Start**

IPR Srl - *Via Statale Asti-Alba, 6/B – 12040 Govone (CN), Italy – +39-0173 212052 – info@ipritalia.com - ipritalia.com*

(Translation of the original)

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Contents

1. PREFACE AND GENERAL INFORMATION 4
2. TRAINING 4
3. GENERAL SAFETY REQUIREMENTS 4
4. SAFETY SYMBOLS 5
5. TERMS AND DEFINITIONS 5
6. HANDLING 6
7. LABELS 7
8. TECHNICAL SPECIFICATIONS 8
   1 CE marking and location 8
   2 Motor models 9
   3 Weight 10
   4 Main packaging components 10
   5 Main high-speed door components 10
   6 Safety devices and guards 14
9. INTENDED USE AND LIMITATIONS 14
10. INSTALLATION 15
   1 General safety warnings 15
   2 Installation type 16
   3 Mechanical installation, fixing and preliminary wiring 17
   4 SIDE motor fixing points 18
   5 Multi-beam light curtains 20
   6 Curtain positioning and correct tensioning 23
   7 Control panel installation and connections 24
11. INVERTER PROGRAMMING MENU 25
   1 Control and programming keypad 25
   2 Checking motor rotation direction 26
   3 Encoder adjustment with 2-digit display 27
   4 Menu navigation with 2-digit display 28
   5 Level 1 User menu 29
   6 Level 2 Installer menu 30
   7 Level 3 Inverter menu 31
   8 Reset to initial settings 31
   9 OPEN/CLOSE CONTROL MODES 32
   10 Error codes 33
12. OPERATING MODES 34
13. MANUAL OPERATION 36
14. SAFETY DEVICES 37
15. NOISE 37
16. MAINTENANCE AND PERIODIC CHECKS (USER / QUALIFIED TECHNICIAN) 38
17. TROUBLESHOOTING 39
18. DISPOSAL AND SCRAPPING 40
19. WARRANTY 40
20. TECHNICAL SUPPORT 40
21. SAMPLE EC DECLARATION OF CONFORMITY 41
22. SAMPLE DECLARATION OF PERFORMANCE (DoP) 42
23. VISUAL CHECKS AND TESTS 43
24. MAINTENANCE LOG 44

1. PREFACE AND GENERAL INFORMATION

This installation manual is intended exclusively for professionally competent personnel.
Installation, electrical connections and adjustments must follow good engineering practice and comply with the applicable standards.
Read the instructions carefully before installing the product. Incorrect installation may create hazards. Packaging materials (plastic, polystyrene, wood, etc.) must not be discarded into the environment or left within reach of children, as they are potential sources of danger.

Before starting installation, check that the product is undamaged.
Do not install the product in explosive environments or atmospheres: flammable gases or fumes pose a serious safety hazard. Before installing the door, make all structural changes required to provide safety clearances and protect and/or isolate all crushing, shearing, drawing-in and other hazardous areas.
Check that the existing structure meets the required strength and stability criteria. Safety devices (photocells, safety edges, emergency stop button, etc.) must be installed taking into account applicable standards and directives, good engineering practice, the installation environment, system operating logic and the forces generated by the door. Safety devices must protect any crushing, shearing, drawing-in and other hazardous areas of the door. Fit the signs required by applicable standards to identify hazardous areas.
The door identification details must be clearly visible at every installation.
Before connecting the power supply, check that the rating plate data match the mains supply. Check that a suitable residual current device (at least Type B) and overcurrent protection are installed upstream. Connect the door to an effective earthing system installed in accordance with applicable safety standards.
The door manufacturer accepts no liability if components incompatible with safety or correct operation are installed, or if any modifications are made without the manufacturer's specific authorisation. Only genuine IPR Srl spare parts may be used for repairs or replacements.
The installer must provide all information on automatic, manual and emergency operation of the door and give the user this operation and maintenance manual.
This manual was written and printed by IPR Srl. **Reproduction,** including partial reproduction, is prohibited. The original is **held by** IPR Srl. The manufacturer reserves the right to change the contents without notice. This manual is an integral part of the machine and must be kept carefully and made available to the operator and/or end user.

2. TRAINING

The Customer is responsible for ensuring that all personnel who operate or maintain the high-speed door receive instruction and training and become trained operators.
All personnel who operate, inspect, repair or clean the high-speed door must be suitably trained in its operation and safety.
Before using the high-speed door, read the operating instructions in this technical manual.

3. GENERAL SAFETY REQUIREMENTS

Personnel using the machine must be provided with personal protective equipment (PPE) suitable for their activities and the working environment in which the machine is installed, in accordance with applicable regulations.
Warning! Lack of maintenance may result in unsafe operation!
Understand and follow the safety procedures before inspecting, maintaining, repairing or cleaning the high-speed door to prevent anyone from activating it accidentally.
Know how the door works and understand its operating procedures.
Know how to stop the door. The emergency Stop button is located on the control panel.
Understand and comply with the high-speed door safety labels.
Make sure that nothing you wear can become caught in the door. When working on or near moving parts, do not wear loose clothing, jewellery, loose long hair, ties, scarves or anything that could become caught in moving parts.
Check the supply voltage against the voltage specified on the door label.

4. SAFETY SYMBOLS

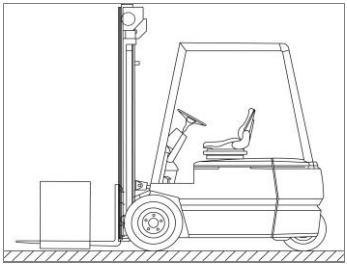
DANGER	A hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	A hazardous situation which, if not avoided, may result in death or serious injury.
CAUTION	A hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates important information not related to personal injury.

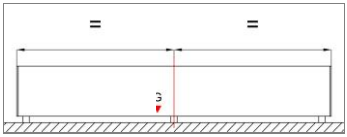
5. TERMS AND DEFINITIONS

Trained operator	Authorised person who may operate the door and its accessories
Qualified technician	Suitably instructed and trained person, qualified through knowledge and practical experience, with the knowledge and instructions needed to carry out the required installation correctly and safely
Log	Book containing general door data and adequate space to record the results of inspections, tests, maintenance and any repairs or modifications to the door
Owner	Individual or legal representative authorised to control the door and responsible for its operation and use
Maintenance	All operations needed to ensure correct and safe operation of the door and its components and accessories after installation. Maintenance includes adjustments, repairs or replacement of components due to wear or accidental breakage

6. HANDLING

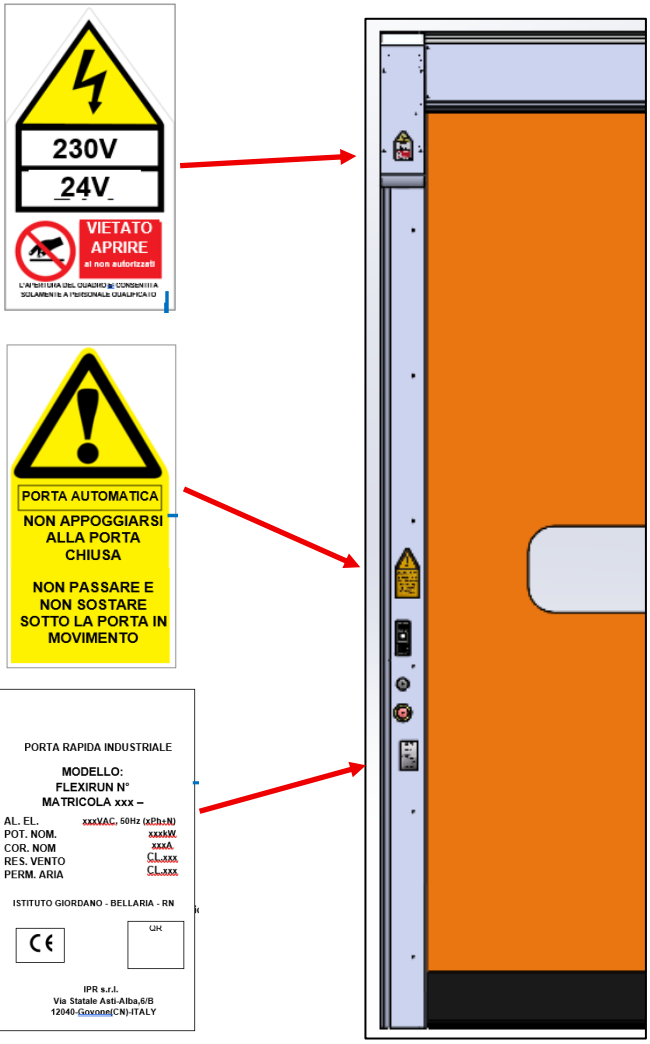
When handling the door, consider its weight and any movement that may occur during transport. Use lifting and transport equipment suitable for its dimensions and weight. Position the forks according to the package centre of gravity. Before starting installation, check that the product is undamaged.





7. LABELS

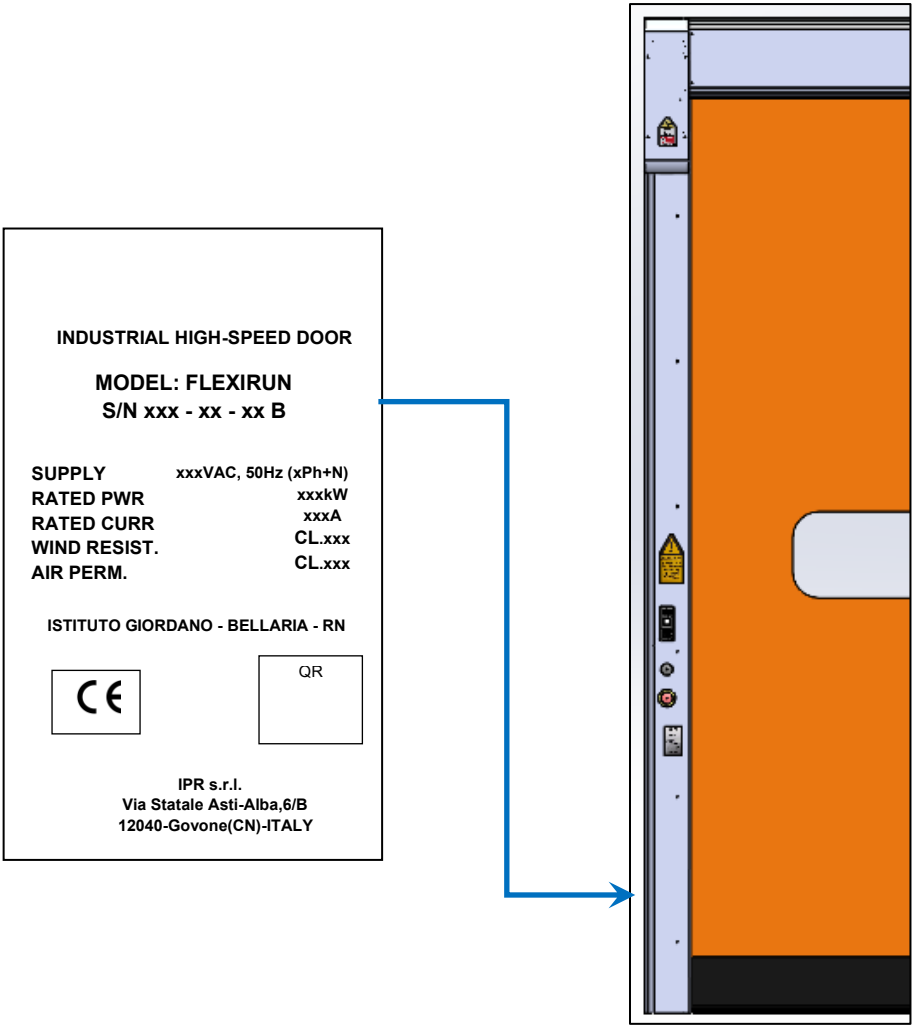
NOTICE The labels are an integral part of the Operation and Maintenance Manual. Always check that the labels are present and replace them if missing or worn (illegible labels).



All labels shown in the Operation and Maintenance Manual provide essential information on the door power supply and guidance on safety management, correct use and implementation of any internal safety procedures at the installation site.

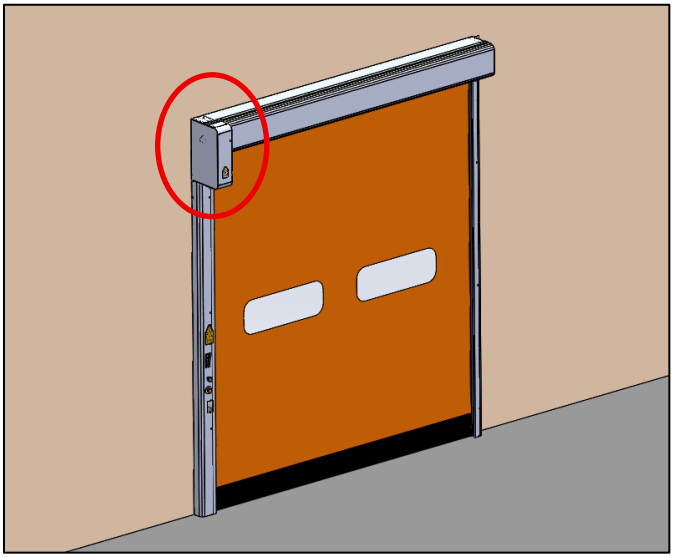
8. TECHNICAL SPECIFICATIONS

1 *CE marking and location*



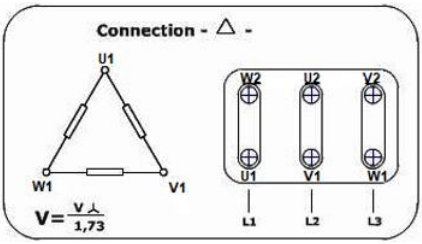
2 ***Motor models***

SIDE left/right



POWER SUPPLY	230 Vac (1PH+N) 50/60 Hz 10 A – 16 A 0,55 ÷ 2,7 kW IP55 IP66 -30 ÷ +70 °C

230 Vac connection

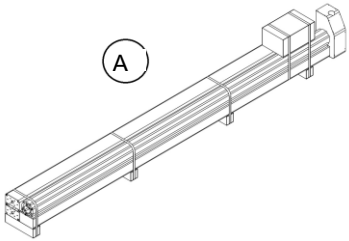


NOTICE	230V three-phase supply: delta motor connection Always perform the test before commissioning the door.

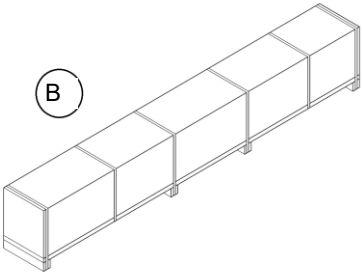
3 Weight

Weight varies with door dimensions and is shown on the packaging.

4 Main packaging components

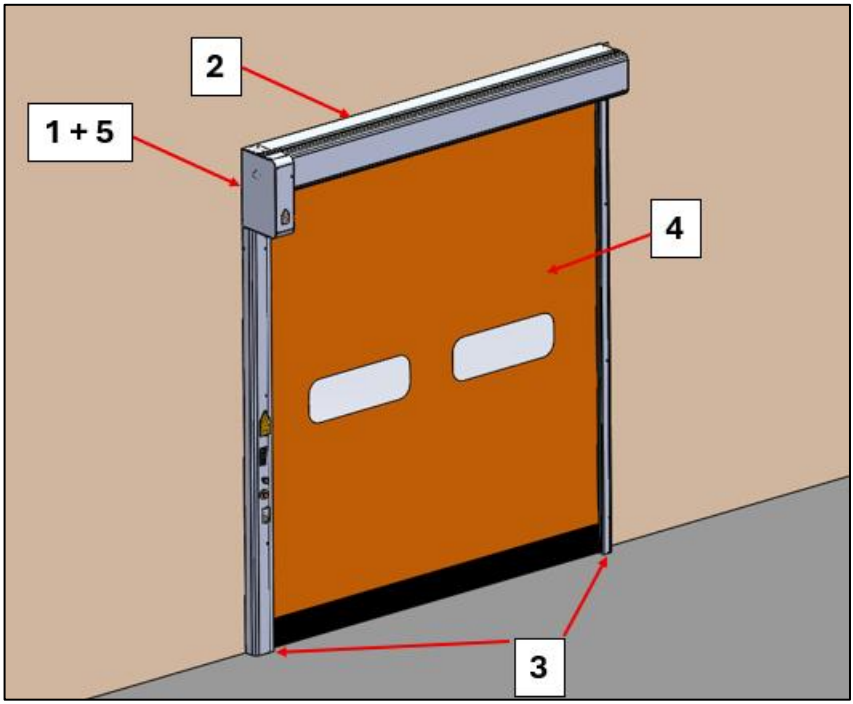


"A" Standard packaging + protective film



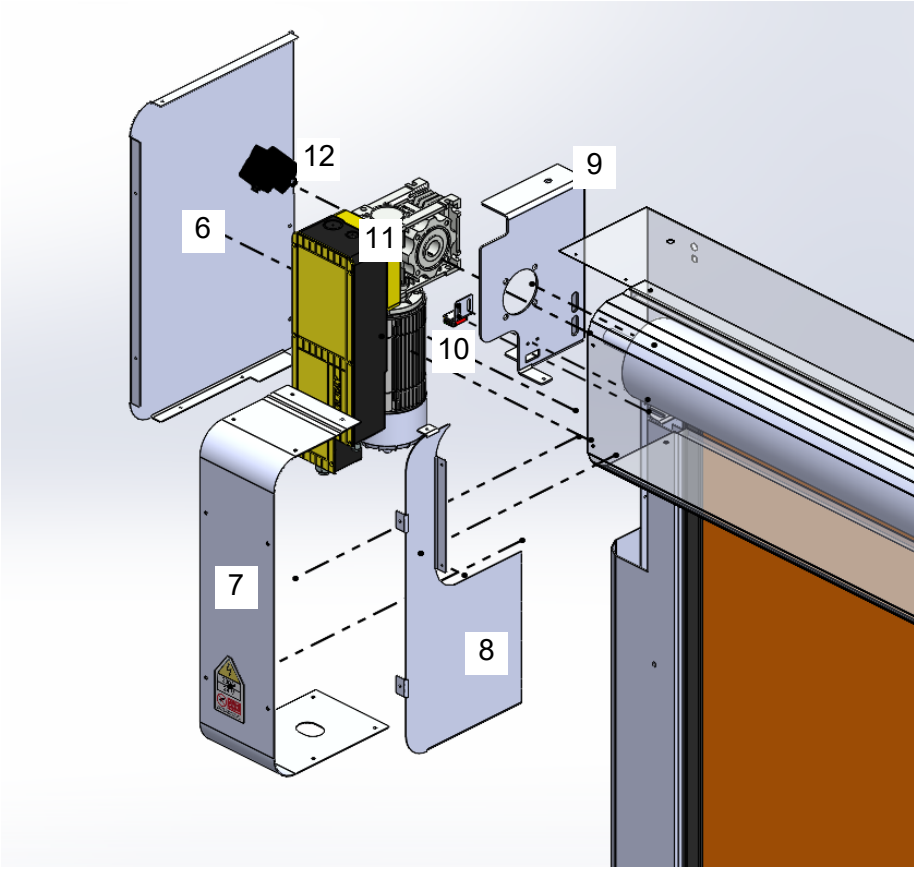
"B" Wooden packaging (optional)

5 Main high-speed door components



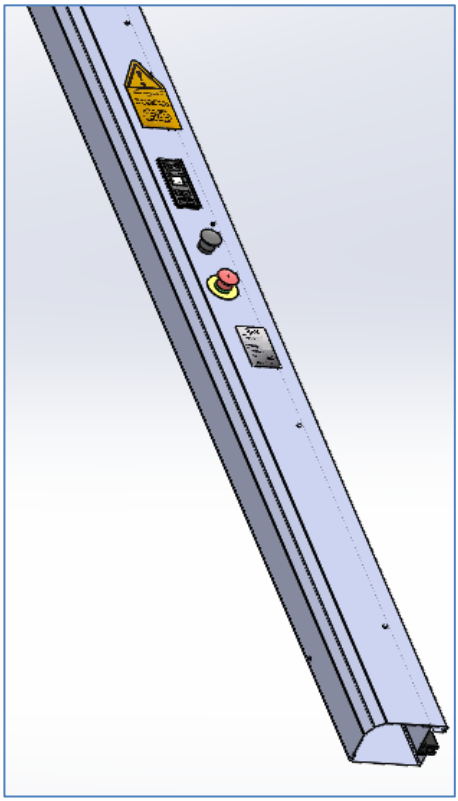
1	Motor assembly	**3**	Uprights	**5**	Control panel
2	Crossbeam	**4**	Curtain		

GEARMOTOR ASSEMBLY

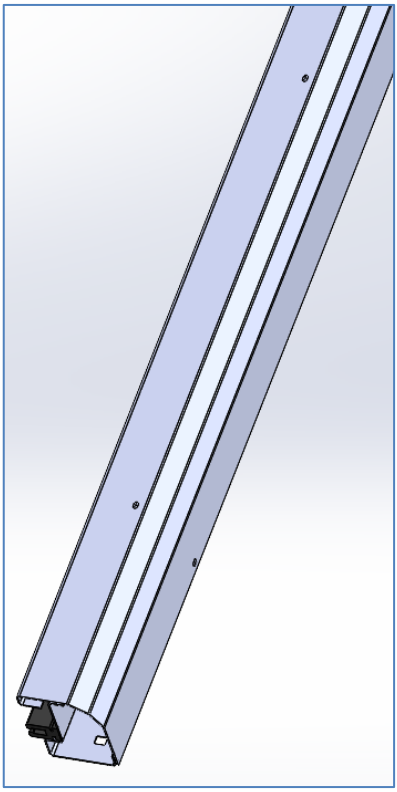


6	Outer motor cover	**10**	Anti-jamming sensor
7	Centre motor cover	**11**	Gearmotor assembly + Inverter
8	Inner motor cover	**12**	Encoder
9	Crossbeam plate		

UPRIGHTS

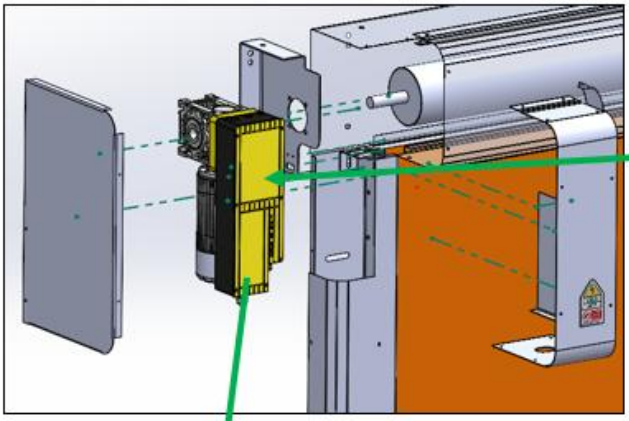


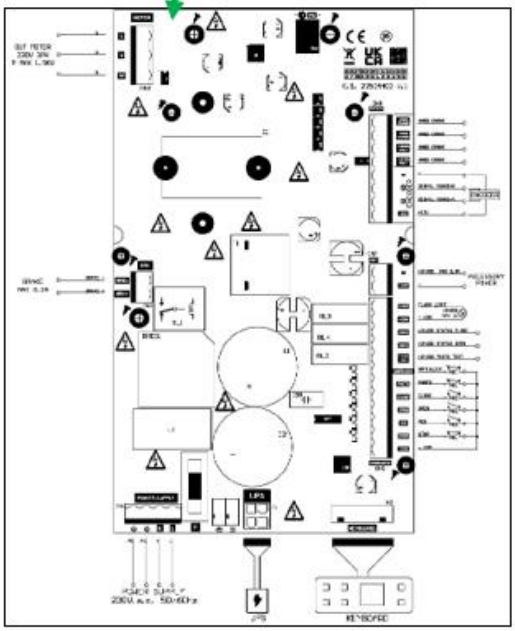
160mm MOTOR-SIDE UPRIGHT

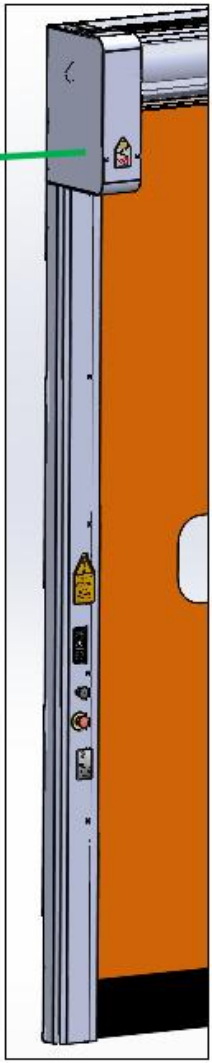


90mm OPPOSITE-SIDE UPRIGHT

CONTROL PANEL







6 Safety devices and guards

Safety devices:
- Photocells
- Pair of photoelectric light curtains

Fixed guards:
- Crossbeam and roller cover
- Upright covers
- Motor cover

NOTICE The safety devices fitted depend on the door dimensions.

WARNING

REMOVING THE GUARDS IS PROHIBITED
The manufacturer accepts no liability for use of the machine without guards.
Immediately replace damaged or worn guards.

9. INTENDED USE AND LIMITATIONS

This automated system is a vertically moving high-speed door designed to close internal or external openings between two areas. The passage is generally intended for vehicles such as trucks, forklift trucks, AGVs, etc., or pedestrians. Mixed vehicle and pedestrian traffic through the door is allowed only when made safe and when personnel are adequately trained by the customer. Children or persons with reduced physical, sensory or mental capabilities must not use the door without supervision.
In this case, the user must carry out a risk assessment to make passage safe. The door must be used only for its expressly intended purpose. Any other use is improper and therefore hazardous. The manufacturer accepts no liability for damage caused by improper, incorrect or unreasonable use. The door is not intended for use as an emergency exit, as it is not approved for this purpose.

Environmental limitations

Working environment	Industrial indoor / outdoor
Temperature	–30 ÷ +70 °C
Relative humidity	5% ÷ 85% * (* max. 50% at temperatures above 40°C)
Altitude	= 1000 m above sea level * (* higher altitudes with optional accessories)
Lighting	The installation area must be adequately lit (> 200 lux.. *) (* customer's responsibility)

10. INSTALLATION

NOTICE Installation must be carried out by a qualified technician.

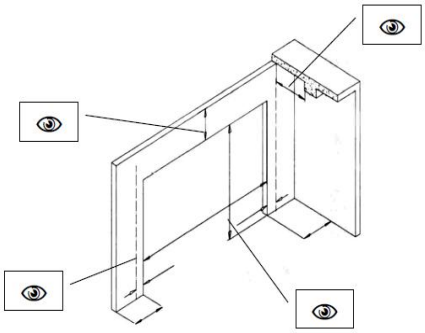
1 General safety warnings

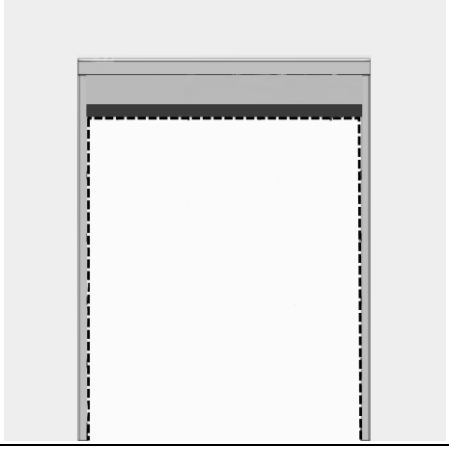
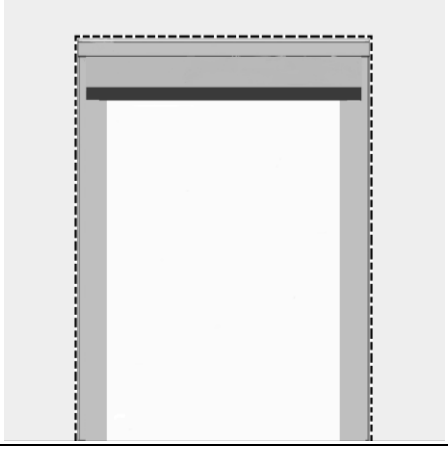
Use suitable equipment for mechanical installation to lift the automated system and access parts at height.
Check that the supporting structure can withstand the weight of the machine, taking account of dynamic and static loads and possible vibrations caused by movement.
Electrical connections and adjustments must follow this Manual and good engineering practice.
Before connecting the power supply, check that the rating plate data match the mains supply.
The customer or mains supply installer must provide a suitably rated switch/isolator on the power supply.
Check that the supply line is protected by a residual current device and overcurrent protection. Connect the door to an effective earthing system. On completing installation, the installer must provide all information on automatic, semi-automatic, manual and emergency operation and give the system user this Operation and Maintenance Manual.

CAUTION INCORRECT INSTALLATION MAY CREATE HAZARDS DURING MACHINE OPERATION

2 ***Installation type***

Before installation, check the opening dimensions against the door dimensions, check for protrusions and verify the correct installation clearances.



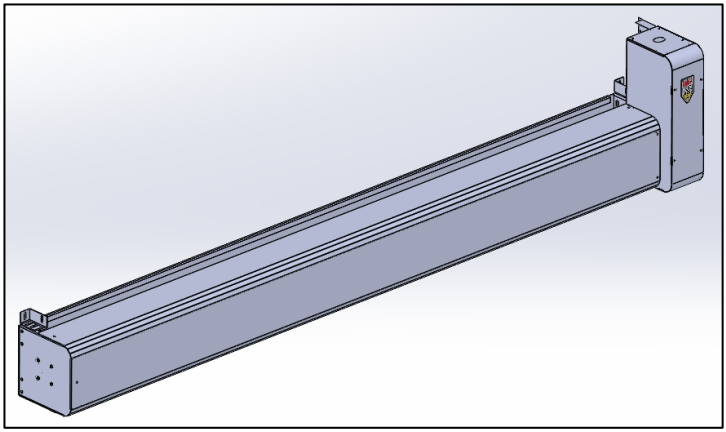
FACE-FIXED	**WITHIN OPENING**
	
Door opening	
 Face-fixed upright mounting	 Upright mounting within opening

3 Mechanical installation, fixing and preliminary wiring

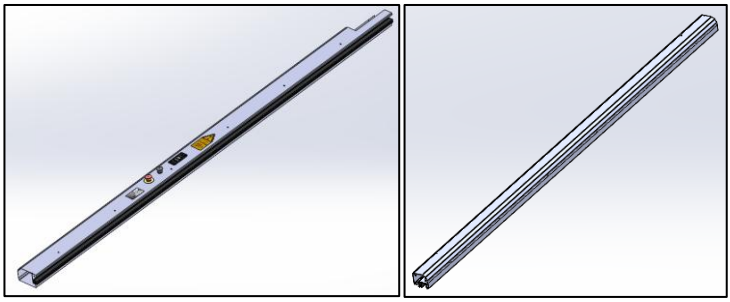
Before installing the door, check that the floor, existing walls or supporting structure are strong enough to support its weight, taking account of dynamic loads during normal operation (wind pressure) and any impacts. Make any necessary structural changes before starting installation.

Before assembly, check that the main door components are present:

CROSSBEAM



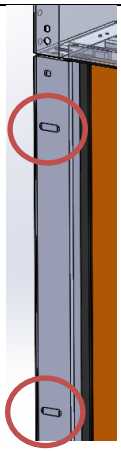
UPRIGHTS



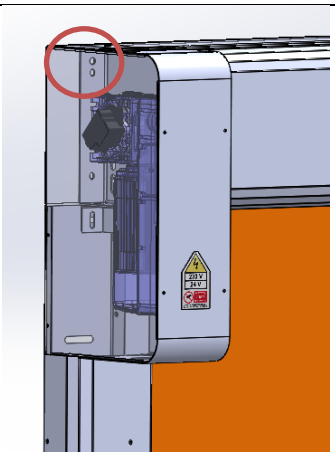
- *CURTAIN;*
  On the "Flexirun" model, the curtain is wound onto the winding roller inside the crossbeam, already positioned and ready to be inserted into the uprights;

- *ACCESSORIES;*
  All standard and optional accessories are contained in the cardboard box.
  Accessories that do not fit in the box are placed inside the packaging.

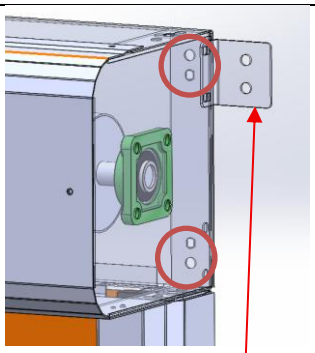
4 ***Fixing points***



UPRIGHT FIXING SLOTS

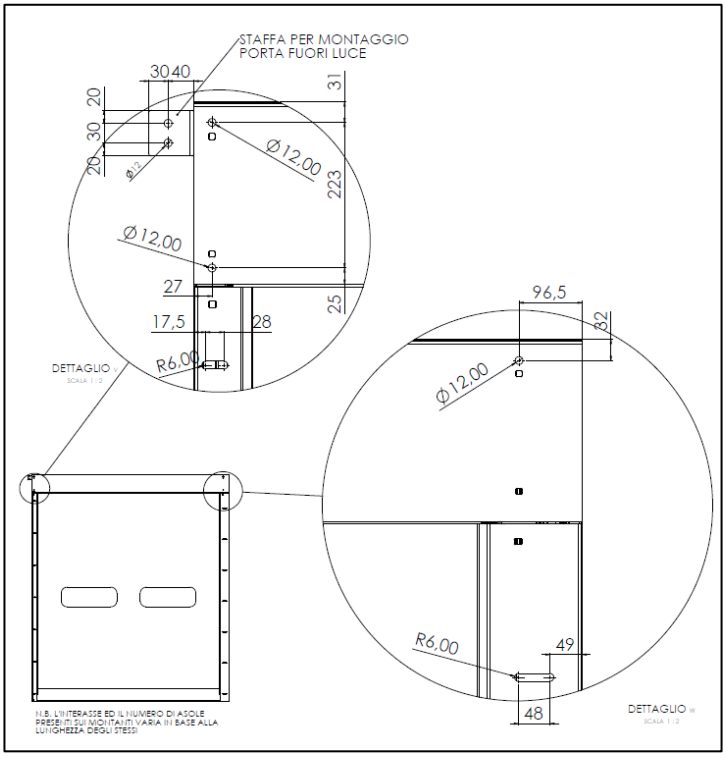


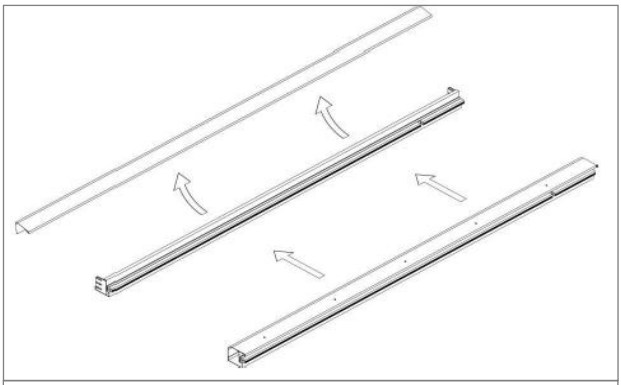
CROSSBEAM FIXING HOLES – MOTOR SIDE



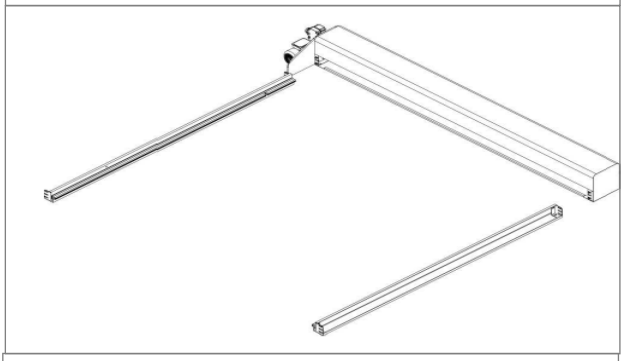
BRACKET FOR FACE-FIXED DOOR INSTALLATION

CROSSBEAM FIXING HOLES – OPPOSITE SIDE

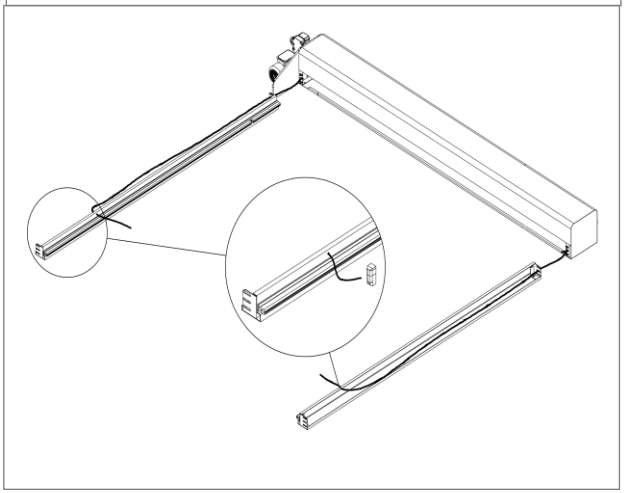




1. Lay the uprights on the ground;
2. Unscrew cover screws;
3. Remove the cover.



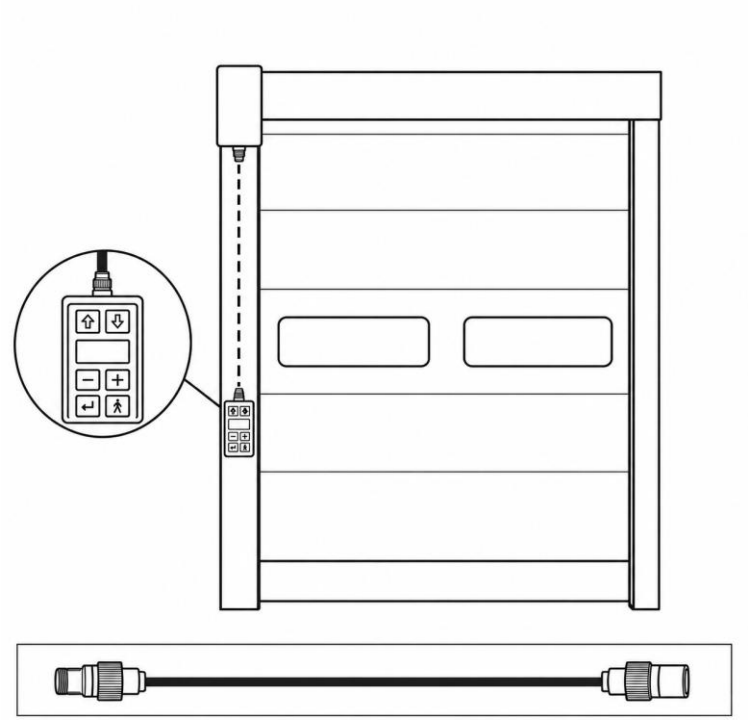
Attach uprights to crossbeam with the brackets supplied. For doors over 4×4 m, temporarily fix uprights to the wall, then lift and attach the crossbeam.



Wire at ground level, routing cables as shown.

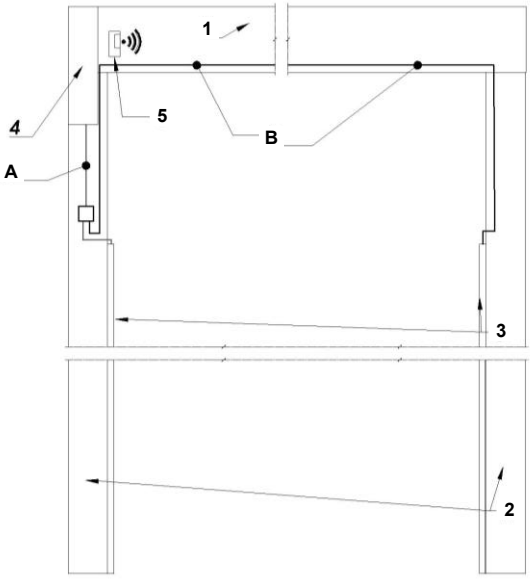
Join uprights to crossbeam with the bolts, nuts and brackets supplied.

Finally, connect the keypad to the control panel using the dedicated "plug and play" cable.



5 *Multi-beam light curtains*

TELCO light curtain wiring



COMPONENTS:

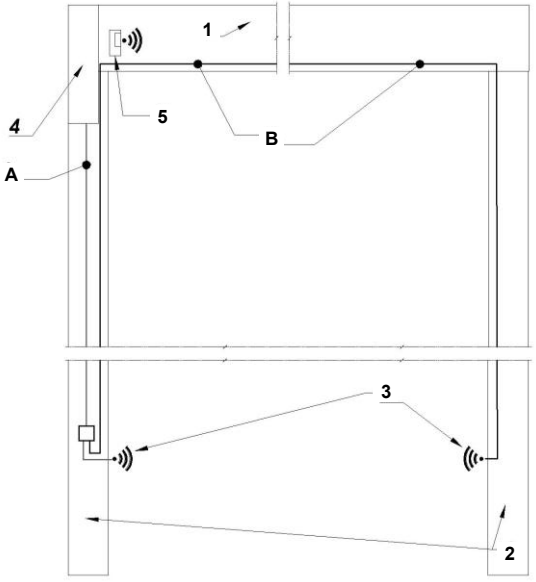
1. Crossbeam
2. Upright
3. Multi-beam light curtains
4. Control panel
5. Anti-jamming

WIRING

A. Wiring from RX to control panel

B. Wiring from RX to TX.

TELCO photocell wiring



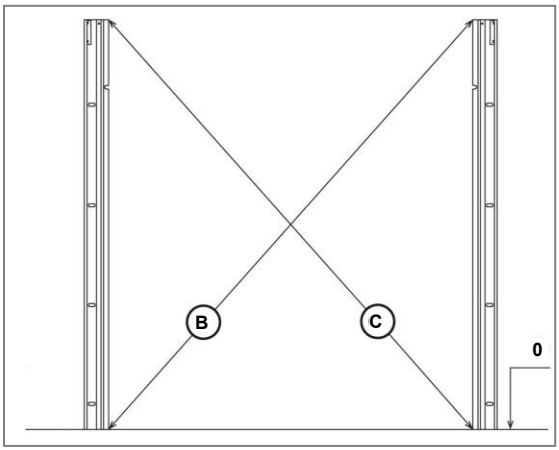
COMPONENTS:

1. Crossbeam
2. Upright
3. Photocell
4. Control panel
5. Anti-jamming

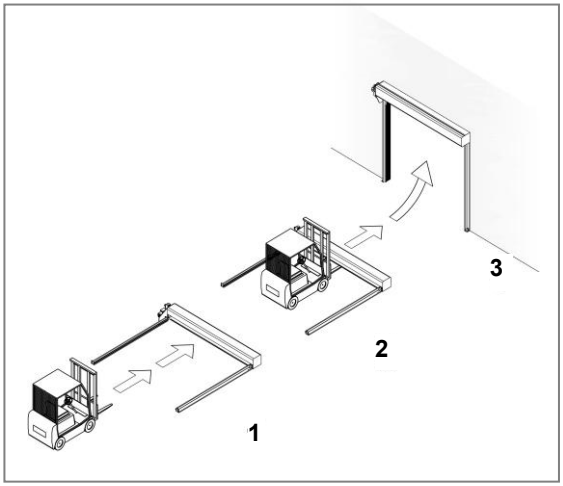
WIRING

C. Wiring from RX to control panel

D. Wiring from RX to TX.

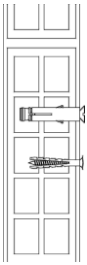


Make sure the supporting surface is level; check upright alignment and crossbeam horizontality, then fix as described below. **(B=C ± 5mm)**

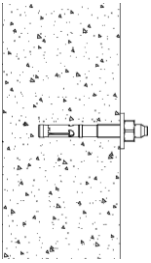


Lift the structure using suitable equipment and provisionally fix both the crossbeam and uprights, leaving scope for adjustment and/or centring.
Complete fixing using the supplied brackets and/or additional anchors where required. For widths > 4 m, support the crossbeam at least every 2 m.

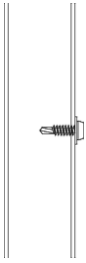
Fixing examples:



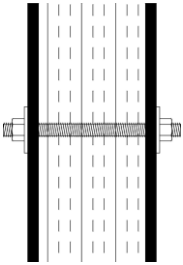
Brick



Concrete

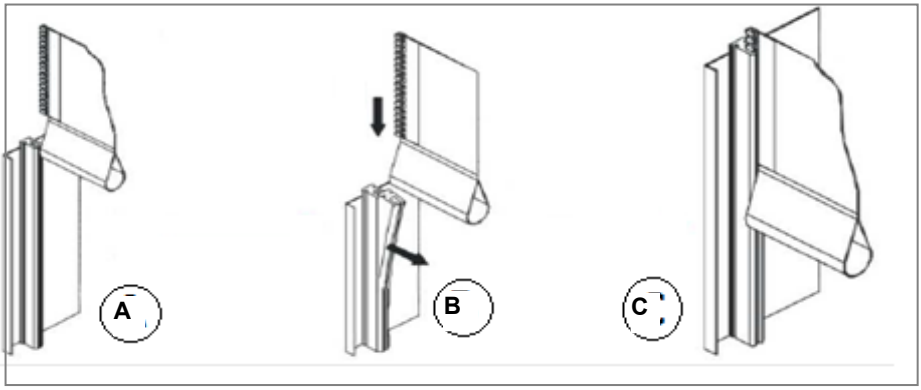


Steel

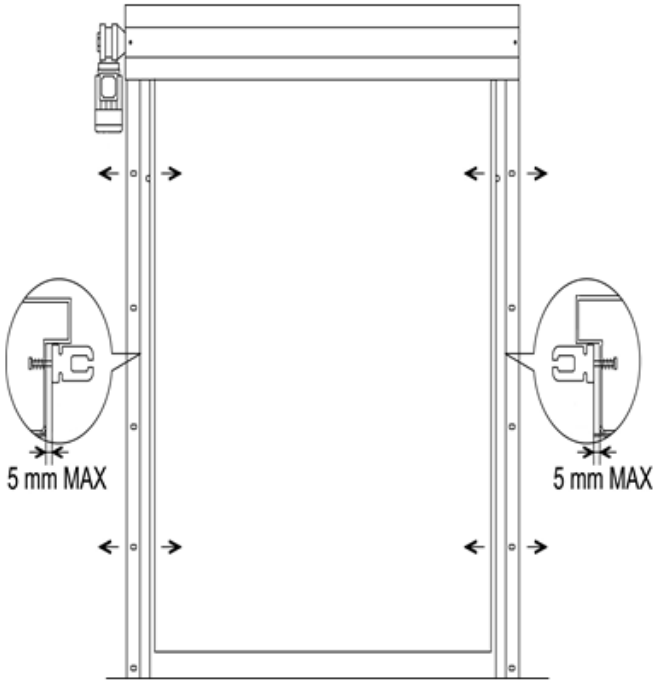


Insulated plasterboard / insulated panel

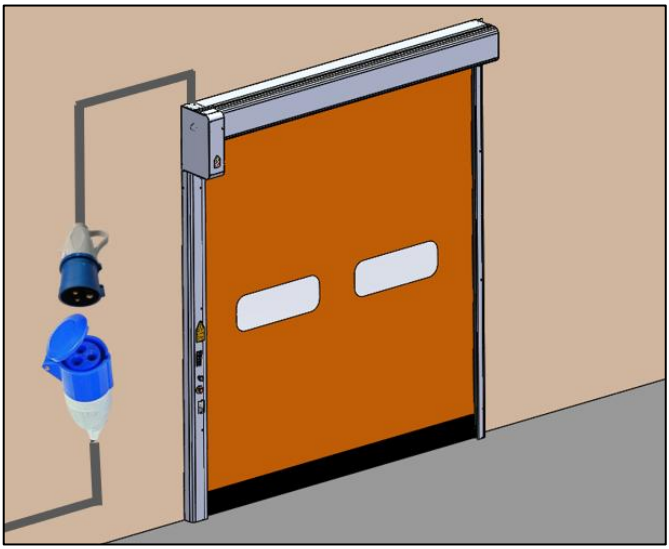
6 *Curtain positioning and correct tensioning*



A - Using the release rod, lower the curtain out of the crossbeam until the zip is 50 - 100 millimetres below the top of the guide rails.
B - Bend the guides towards the curtain and insert the zip into the guides.
C - Lower the curtain by approximately 500 millimetres, then switch on the control panel power supply.



7 *Control panel installation and connections*



Install the control panel at a suitable operating height (approximately 1500 mm above the floor) and use cable ducts and cables compliant with **applicable regulations. Route power and signal cables in separate ducts.**

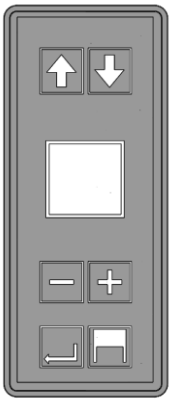
Before connecting the power supply, check that the rating plate data match the mains supply. Check that a suitable residual current device (at least Type B) and overcurrent protection are installed upstream. Connect the door to an effective earthing system installed in accordance with applicable safety standards.

⚠ **CAUTION**	BEFORE CONNECTING THE CONTROL PANEL, MAKE SURE THE DOOR OPERATING SWITCH IS SET TO "OFF" TO PREVENT SUDDEN, UNEXPECTED CURTAIN MOVEMENT WHICH COULD DAMAGE THE DOOR AND ENDANGER OPERATORS NEARBY.

11. INVERTER PROGRAMMING MENU

1 Control and programming keypad

The 2-digit keypad has six keys. UP arrow, DOWN arrow, −, +, ENTER and PEDESTRIAN are arranged from the top left as shown.



KEY	FUNCTION
UP arrow	Open command; moves the door upwards during encoder adjustment.
DOWN arrow	Close command; moves the door downwards during encoder adjustment.
−	Decreases the parameter value. Hold with the door closed, outside the menus, to display errors.
+	Increases the parameter value.
ENTER	Stops the automatic closing countdown. Opens the User menu and scrolls through items. At SA, hold to select Y and save.
PEDESTRIAN	Pedestrian opening command. In menus, goes to SA; at SA, hold to select N and exit without saving.

Key combinations and long presses are described in the following procedures.

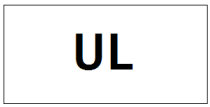
2 *Checking motor rotation direction*

Perform this check before storing encoder positions, with the travel area clear and sufficient space for a short test run in both directions.

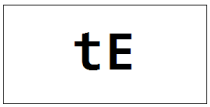
CAUTION In tE, only STOP is monitored; other safety devices are not checked. Use short pulses and avoid the mechanical travel limits.

1. If the keypad is locked, hold + and − for 5 seconds until UL appears.
2. Hold ENTER and + to access Level 2 Installer menu. The first item is tE, manual test movement.

TASTIERA SBLOCCATA



MENU 2 MOVIMENTO MANUALE



3. Briefly press UP: the door must move upwards to open.
4. Briefly press DOWN: the door must move downwards to close.

If both commands produce the correct movement, proceed with encoder adjustment. If the direction is reversed, stop the test and follow the procedure below.

2.1 Correcting direction by swapping two phases

1. Isolate the control panel power supply, prevent accidental reconnection, wait for the DC circuit to discharge as specified in the equipment instructions and verify absence of voltage.
2. A qualified technician must swap two motor conductors at the inverter U–V–W output terminals. For example, swap the conductors connected to U and V, leaving W unchanged.

Do not change the PE protective conductor, brake connections or mains supply connections.

3. Close the control panel, restore power, then unlock the keypad and access tE again.
4. Repeat the test with UP and DOWN. Store encoder positions only after verifying the correct direction.

3 *Encoder adjustment with 2-digit display*

Select Sc for closing, So for full opening or SP for pedestrian opening. The following procedure applies to all three positions.

3.1 Meaning of the display dot

- Dot shown at bottom left: the number indicates the stored position.
- No dot: the number indicates the current encoder position and changes during movement.

POSIZIONE MEMORIZZATA



Puntino in basso a sinistra

\+ e - prolungati per modificare

POSIZIONE ATTUALE



Puntino assente

Muovere con freccia SU / GIU

NUOVA POSIZIONE SALVATA



Puntino in basso a sinistra

\+ e - prolungati per memorizzare

Illustrative diagram: 42 and 57 are examples, not values to be set.

3.2 Setting and storing

No.	Keys	DISPLAY	ACTION
1	**ENTER and +**	Installer menu	Enter the second menu.
2	**ENTER**	Value with dot	Scroll to Sc, So or SP. The value shown is the stored position.
3	**Hold + and −**	The dot disappears	Hold + and − together for a few seconds. The display switches to the current encoder position.
4	**UP / DOWN arrow**	Current value without dot	Move the door to the required position.
5	**Hold + and −**	Value with dot	Hold + and − together again to store the new position.
6	**ENTER**	Next item	Repeat for the other positions to be adjusted.

Safety devices are disabled during adjustment, except STOP. Keep the travel area clear.

SP must be between Sc and So. Pedestrian opening is unavailable until SP has been taught.

4 Menu navigation with 2-digit display

The board supports an OLED keypad or a 2-digit display keypad. The columns show the two interfaces separately. Language, cycle counter and password are available on OLED only.

4.1 Unlocking the keypad

Before accessing menus, if the keypad is locked, hold + and − for 5 seconds: UL appears. OPEN, CLOSE and PEDESTRIAN commands remain active even when programming is locked. 

4.2 Accessing menu levels

1. User: hold ENTER until the first parameter appears. 
2. Installer: hold ENTER and + until tE appears. 
3. Inverter: hold ENTER and − until Uo appears. 

4.3 Navigation and editing

1. Press ENTER to cycle through the menu items.
2. Change the displayed value using + and −.
3. Press PEDESTRIAN to go directly to the end of the menu. 

4.4 Saving with SA

The last menu item is SA. Y and N are available:

- Y: hold ENTER to confirm and save. 
- N: hold PEDESTRIAN to exit without saving. 

After one minute of inactivity, the system exits the menu and displays the door status.

5 Level 1 User menu

2-digit access: hold ENTER until the first parameter appears.

User parameters. Times are in seconds; 0 disables the corresponding automatic closing function.

ID	OLED	2-digit	DESCRIPTION	DEF.	RANGE	UNIT
1.0	**Language**	—	Menu language. OLED only.	1	0–10	—
1.1	**Automatic closing**	tA	Delay before full closing. 0 = disabled.	5	0–540	s
1.2	**Pedestrian closing**	tP	Delay before pedestrian closing. 0 = disabled.	5	0–540	s
1.3	**Photocell closing**	tF	Delay after photocell status changes. 0 = disabled.	5	0–540	s
1.4	**Opening pre-flash**	Lo	Pre-flashing before opening. 0 = disabled.	0	0–60	s
1.5	**Closing pre-flash**	Lc	Pre-flashing before closing. 0 = disabled.	0	0–60	s
1.6	**Flashing light mode**	LP	0 = monostable; 1 = bistable; 2 = sinusoidal.	1	0–2	—
1.7	**Output mode**	Sr	0 = outputs at limits; 1 = outputs away from limits; 2 = traffic light.	2	0–2	—
1.8	**Countdown brightness**	Cd	Accessory brightness: 0 minimum, 15 maximum.	15	0–15	—
1.9	**Total cycles**	—	Total number of cycles, read-only. OLED only.	—	Read-only	—

6 Level 2 Installer menu

2-digit access: hold ENTER and + until tE appears. 

Adjustments are restricted to professionally competent personnel. Keep the door travel area clear during manual movement and position teaching.

ID	OLED	2-digit	DESCRIPTION	DEF.	RANGE	UNIT
2.0	**Manual movement**	tE	Test movement. Only STOP active; speed Un.	—	Command	—
2.1	**Set closing limit**	Sc	Stores the closed position. See Encoder adjustment.	—	Position	—
2.2	**Set opening limit**	So	Stores the fully open position. See Encoder adjustment.	—	Position	—
2.3	**Set pedestrian limit**	SP	Stores the pedestrian open position. See Encoder adjustment.	—	Position	—
2.4	**Encoder direction**	SE	0 = automatic; 1 = clockwise; 2 = anticlockwise.	0	0–2	—
2.5	**Opening**	oP	OPEN input logic. **See «OPEN and CLOSE control logic».**	6	0–8	—
2.6	**Closing**	cL	CLOSE input logic. **See «OPEN and CLOSE control logic».**	1	0–3	—
2.7	**Photocell test**	Ft	0 Off; 1 NC close; 2 NO close; 3 NC open/close; 4 NO open/close.	0	0–4	—
2.8	**Photocell bypass**	EF	Bypass threshold during closing. 0 = monitoring over full travel.	5	0–75	%
2.9	**Antiblock enable**	EA	Antiblock enable threshold during closing. no = disabled.	no	no / 50–99	%
2.10	**Brake mode**	Fr	0 = negative; 1 = positive.	0	0–1	—
2.11	**FW update**	UP	Update via programming kit.	—	Command	—
2.12	**Level 2 password**	—	Level 2 access password. OLED only.	2000	0000–9999	—

7 Level 3 Inverter menu

2-digit access: hold ENTER and − until Uo appears. 

Motor movement parameters. Speeds are in Hz; acceleration and deceleration ramps in Hz/s. A qualified technician must adjust these parameters to suit the door configuration.

ID	OLED	2-digit	DESCRIPTION	DEF.	RANGE	UNIT
3.0	**Opening speed**	Uo	Maximum opening frequency.	50	20–80	Hz
3.1	**Opening slow speed**	ro	Frequency during opening slowdown.	20	10–80	Hz
3.2	**Opening slowdown range**	Po	Percentage of travel at reduced opening speed.	20	5–50	%
3.3	**Closing speed**	Uc	Maximum closing frequency.	40	20–80	Hz
3.4	**Closing slow speed**	rc	Frequency during closing slowdown.	20	10–80	Hz
3.5	**Closing slowdown range**	Pc	Percentage of travel at reduced closing speed.	20	5–50	%
3.6	**Manual mode speed**	Un	Frequency for manual movement and teaching.	20	20–50	Hz
3.7	**Acceleration**	Ac	Acceleration ramp.	80	10–120	Hz/s
3.8	**Deceleration**	dE	Deceleration ramp.	80	10–120	Hz/s
3.9	**Slow closing**	Cr	2-digit: duration in tenths of a second. 10 = 1 s; 0 = disabled.	10	0–30	0,1 s
3.10	**Motor timeout**	to	Maximum continuous running time.	20	10–90	s
3.11	**Level 3 password**	—	Level 3 access password. OLED only.	2000	0000–9999	—

8 Reset to initial settings

Procedure with 2-digit keypad

CAUTION Reset restores all factory parameters and deletes taught positions. After reset, reconfigure the control panel and store the limit positions again.

1. Switch the control panel off and on again. At startup, the display shows the firmware version for 3 seconds.
2. While this is displayed, hold +, ENTER and − together for 3 seconds until flashing rE appears. 
3. Release the keys. The display shows − − and the control panel restores the initial settings.
4. The subsequent .Pr indication means that positions are not programmed. Store Sc and So as described under Encoder adjustment; set SP if used.

Normal door operation remains disabled until the closed and open positions have been taught.

9 OPEN/CLOSE CONTROL MODES

The following modes define command behaviour. Set the corresponding value in parameters oP and cL of the Installer menu.

9.1 Opening command parameter oP

0.	**Open:**	Opening only.
1.	**Open/Stop/Open:**	Alternates opening and stop.
2.	**Open/Stop/ Close/Stop:**	Opening, stop, closing, stop sequence.
3.	**Open/Stop/ Close/Open:**	Opening, stop, closing, opening sequence.
4.	**Open/Close:**	Alternates opening and closing.
5.	**Radar:**	Ignores commands while opening; reopens while closing. Restarts the automatic delay.
6.	**Start:**	Ignores commands while opening; reopens while closing. With the door open, resets the automatic delay to zero.
7.	**Hold-to-run:**	Opens while the command is held.
8.	**Slow:**	Reduced-speed opening mode.

9.2 Closing command parameter cL

0.	**Close:**	Closing only.
1.	**Close/Stop:**	Alternates closing and stop.
2.	**Hold-to-run:**	Closes while the command is held.
3.	**Slow:**	Reduced-speed closing mode.

In hold-to-run mode, movement requires the command to be held. Select input modes according to the control devices actually installed.

10 Error codes

10.1 Reading errors with 2-digit display

Outside the menus, a dot at the bottom left of the display indicates errors.

1. Move the door to the closed position and exit the programming menus.
2. With the door closed, hold the − key.
3. Active errors are displayed in sequence. Note the codes before carrying out checks.

Do not confuse the error dot shown outside menus with the dot identifying a stored position during encoder adjustment.

10.2 Codes and checks

CODE	DESCRIPTION	SUGGESTED CHECK
Er 01	STOP input active.	Check the STOP button and its circuit.
Er 02	Encoder disconnected.	Check the encoder connection.
Er 03	Last photocell test failed.	Check devices, connections and parameter Ft.
Er 05	Antiblock triggered 5 consecutive times.	Remove the cause of triggering; reset using the close command.
Er 06	Pedestrian position outside Sc–So travel.	Store SP between closed Sc and open So.
Er 07	Open and closed positions not taught.	Store positions Sc and So.
Er 08	Invalid encoder direction.	Check encoder direction and parameter SE.
Er 10	Motor time set in to exceeded.	Check for obstructions to movement and parameter to.
Er 11	OVER_TEMPERATURE indication.	Contact technical support and provide the code.
Er 12	Encoder direction opposite to SE setting.	Check travel direction and parameter SE.

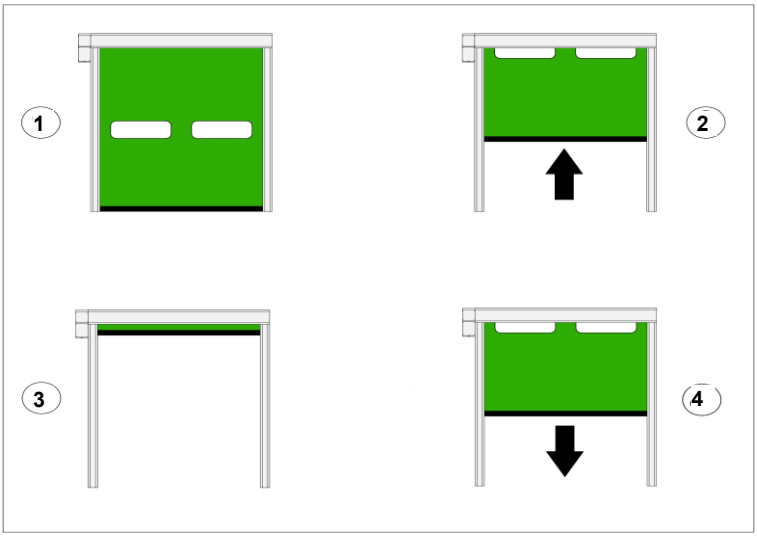
Checks and work on the control panel must be carried out by a qualified technician. If the problem persists, report the displayed code to technical support.

12. OPERATING MODES

	**Pulse** →pressing and releasing a control (e.g. pushbutton, remote control, etc.)
	**Maintained command** →Command that remains active until the button is released

CAUTION BEFORE MOVING THE DOOR FOR THE FIRST TIME, MAKE SURE NO PERSONNEL ARE STANDING NEAR THE HIGH-SPEED DOOR.

STANDARD operating cycle



AUTOMATIC cycle

NOTICE To set the automatic cycle, set the "Start button" parameter to "opening" and set a time other than 0 in the automatic closing settings.

The automatic cycle performs a complete opening and closing cycle following a pulse

Stage 1 → Door closed <<< *Pulse >>> [open command]*

Stage 2 → The door opens to the set height (opening limit)

Stage 3 → The door remains open for the set pause time

Stage 4 → The door moves down until fully closed (closing limit)

SEMI-AUTOMATIC cycle

NOTICE	To set the semi-automatic cycle, set the "Start button" parameter to "step-by-step" and set a time of 0 in the automatic closing settings.

The semi-automatic cycle performs part of the cycle with each pulse.

Stage 1 → Door closed<<< *Pulse >>> [open command]*

Stage 2 → The door opens to the set height (opening limit)

Stage 3 → The door remains open until another pulse <<< *Pulse >>> [close command]*>>>

Stage 4 → The door moves down until fully closed (closing limit)

MANUAL / HOLD-TO-RUN cycle

NOTICE	To set the manual cycle, set "Opening mode" and "Closing mode" to "step-by-step" and set a time of 0 in the automatic closing settings. Connect the buttons correctly to inputs 22 and 23

The hold-to-run cycle uses 2 separate commands (1 open command – 2 close command). The relevant control must be pressed continuously throughout the opening and/or closing stage.

Stage 1 →Door closed <<< Maintained *open command >>> [movement stops on release]*

Stage 2 →The door opens while the open command is held, or until it reaches the fully open position (opening limit)

Stage 3 →The door is fully open and remains open until the close command is pressed<<<
Maintained close command >>> [movement stops on release]

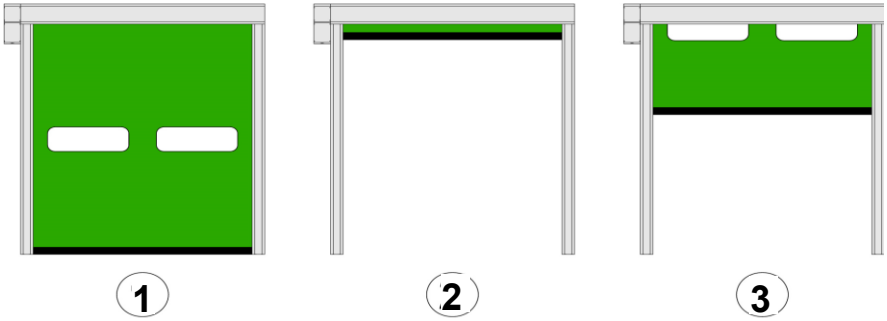
Stage 4 →The door closes while the close command is held, or until it reaches the fully closed position (closing limit)

⚠ **CAUTION**	In hold-to-run operation, controls must be installed near the door because safety devices are disabled. The operator must always have the door in view while it moves, to monitor the passage area and stop upward/downward travel immediately in case of danger. Full opening is often unnecessary, for example for pedestrian access.

Cycle with REDUCED and/or PARTIAL OPENING

Full opening is sometimes unnecessary, for example for pedestrian access; a partial opening position can therefore be set.

An additional control connected to pin 25 (e.g. pushbutton, pull-cord microswitch, etc.) can be installed to open the curtain to an adjustable reduced height.



The door will therefore have 3 positioning steps:

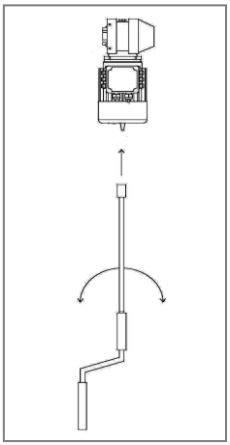
1 Door closed;

2 Full opening (opening limit);

3 Reduced opening (positions adjustable from the electronic board).

Full and reduced opening require separate operating controls. The door uses the same selected operating mode (automatic or semi-automatic cycle).

13. MANUAL OPERATION



Manual operation

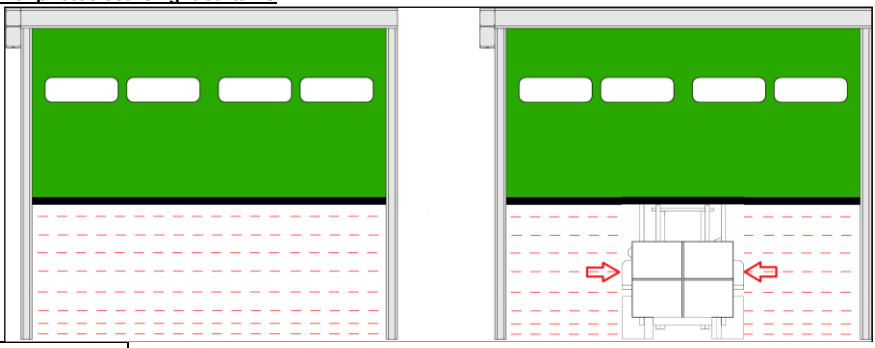
To move the curtain in the event of a power failure or fault:

- Disconnect the power supply using the main switch.
- Insert the rod into the socket on the underside of the motor. This activates the safety microswitch that prevents electrical operation of the door.
- Turn the crank until the curtain reaches the required position.

14. SAFETY DEVICES

The machine safety functions achieve Performance Level “c”, Category 2, in accordance with EN ISO 13849-1:2015.

Pair of photoelectric light curtains

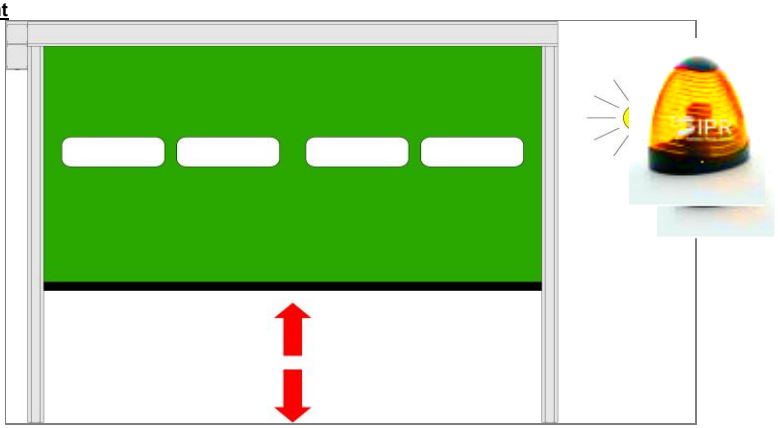


NOTICE



Unless expressly requested otherwise, all doors operate in automatic or semi-automatic cycles and are therefore fitted with a crossed-beam photoelectric safety barrier or a pair of photocells.
Doors with a clear width exceeding 10 m operate in hold-to-run mode.

Flashing light



The door is fitted with a flashing light (or additional optional lights) which flashes during opening and closing, providing a visual indication of curtain movement.

15. NOISE

The sound level produced by the door is <70 dB(A).

16. MAINTENANCE AND PERIODIC CHECKS (USER / QUALIFIED TECHNICIAN)

Personnel using the machine must be provided with personal protective equipment (PPE) suitable for their activities and the working environment in which the machine is installed, in accordance with applicable regulations.

Safety warnings before routine maintenance by a qualified technician

1. Know how the door works and understand its operating procedures.
2. Know how to stop the door. The emergency Stop button is on the control panel.
3. Understand and comply with the safety labels.
4. Wear personal protective equipment for the work (if required).
5. Make sure nothing you wear can become caught in the machine.
6. When working on or near the door, do not wear loose clothing, jewellery, loose long hair, ties, scarves or anything that could become caught in moving parts.
7. Know the location of the on-site first aid facilities.
8. Before opening the control panel, make sure the power supply is disconnected.

Description	Procedure	Interval
Operation and Maintenance Manual present	-	-
Safety labels present	-	-
CE marking with door serial number present	-	-
Visually check the condition of the main door components (motor assembly, crossbeam, uprights, curtain, control panel)	Check that the main components are not damaged or worn.	6 months
General system cleaning	Check that no obstructions or, for outdoor installations, vegetation are present within the door travel area or curtain guides / counterweight housing.	6 months
Clean installed components (photocells, flashing light, radar, etc.)	Use a damp cloth to clean external component surfaces. Do not use solvents or other chemicals (water only).	6 months
Check EMERGENCY STOP button operation	Press START to begin the opening and closing cycle. Press the EMERGENCY STOP mushroom button at any point in the cycle and check that the curtain stops immediately	6 months
Check motor and motor brake	Turn the shaft by hand to check for motor obstructions and any accumulation of moisture or water. Check brake lining wear and clearance from the brake disc.	6 months
Check safety device operation [photocells, light curtains, safety edge (if fitted)]	Press START to begin the opening and closing cycle. During closing, move an object in front of the photocells or light curtains, if fitted, or press the safety edge. Check that the curtain reverses and stops	6 months
Pivots and moving parts	Lubricate pivots and moving parts accessible to the end user (guides, chain drives, etc.). Access to internal parts protected by guards is prohibited.	6 months
Fixings	Check that the crossbeam and uprights are securely fixed to the supporting structure and show no abnormal movement.	6 months

CAUTION

Checks and work other than those listed above must be carried out by qualified technicians or the manufacturer.
Lack of maintenance may result in unsafe operation!

NOTICE

For details of all maintenance and/or checks, refer to the section: ***VISUAL CHECKS AND TESTS***

17. TROUBLESHOOTING

PROBLEM	***SOLUTION***
Control panel lights do not come on	Check the power supply
	Check the fuses
	Check the EMERGENCY STOP mushroom button
Door neither opens nor closes	Check that the control board works correctly
	Check terminal block connections
	Check the EMERGENCY STOP button
Door opens but does not close	Check light curtain operation
	Check for obstructions to downward curtain travel
Light curtains do not work	Check correct TX and RX alignment
	Check correct TX and RX power supply
	Check that the optical units are clean
Safety edge does not work (if fitted)	Check the connection between receiver and transmitter
	Check the battery charge
	Check for radio interference
Door does not close automatically	Check correct connection of terminals (7)
	Check safety device operation
	Check the pause time setting
Door struggles to move through the reinsertion slot	Check that the entry slot is clean
	Check zip wear
Board activates but door does not move	Check motor brake connection and release
	Check motor connection
Door curtain descends slowly	Check motor brake connection
	Check control board settings
	Check closing speed setting
Door does not stop at opening and/or closing limit	Check limit switch connection
	Check limit switch operation
	Check limit switch adjustment
Door closes and light curtains do not respond	Check for sources of interference between RX and TX
	Check that light curtain cables are not routed near high-voltage cables
	Check correct operation and connections
Door opens and closes unexpectedly	Check opening device operation
	Check safety edge operation (if fitted)
	Check for signals that could cause interference
Flashing light or traffic light does not work	Check correct connection
	Check the internal bulbs
Door remote control does not work	Check receiver board connection
	Check correct programming
	Check receiver board
	Check remote control battery

18. DISPOSAL AND SCRAPPING

European Parliament Directive 2002/96/EC, also known as the "WEEE Directive", requires EU-based manufacturers, distributors, retailers and importers of electrical and electronic equipment to include information on disposal, reuse, recycling and/or further treatment in the operating instructions.
As a general rule, the WEEE Directive requires electrical and electronic equipment to be disposed of responsibly at the end of its useful life, allowing the reuse or recycling of parts and materials identified for this purpose.
Waste electrical and electronic equipment (WEEE) must not be disposed of with unsorted municipal waste and must be collected separately.
Separate collection is essential for the specific treatment and recycling of WEEE.
Under the Directive, collection, treatment, recovery and environmentally sound disposal of WEEE from users of products containing electrical and electronic equipment placed on the market after 13/08/2005 must comply with the national measures implementing the WEEE Directive in each EU Member State.

When dismantling the door, separate the different materials and dispose of them appropriately. In particular:
- collect gearbox lubricant in suitable containers and take it to designated collection centres. Never discharge lubricant into drains or soil, to avoid environmental contamination;
- separate all plastics: PVC curtain, sliding profiles, seals, flashing light, limit switch housing and plastic gears, and take them to collection centres;
- separate all ferrous parts (particularly sheet metal and the winding shaft) and have them disposed of by authorised companies.



Do not discard high-speed door scrap into the environment or leave it within reach of children, as this poses a serious hazard to people and the environment.

19. WARRANTY

The IPR Srl **warranty** is valid for 12 **months** (24 **months** for private customers) from delivery, unless otherwise agreed by contract.

The warranty is void in the following cases:
- The door is used for a purpose other than that for which it was designed;
- Door modifications have not been authorised by the manufacturer;
- Unauthorised work or work by unqualified technicians;
- Installation of components incompatible with correct door operation;
- Use of non-genuine spare parts.
- Maintenance and/or periodic checks not carried out or not certified in the Maintenance Log.

20. TECHNICAL SUPPORT

Malfunctions, faults or other problems must be reported to the manufacturer in writing.

IPR Srl
Italiana Porte Rapide
Via Statale Asti - Alba , 6/B
12040 Govone (CN) – Italy
Tel.: +39 0173 212052 – info@ipritalia.com

21. SAMPLE EC DECLARATION OF CONFORMITY

I P R S. r. l.
Via Statale Asti-Alba 6/B
12040 Govone – Fraz. Canove (Cn)
Tel. 0173 212052 – Fax 0173 210797

www.ipritalia.com Info@ipritalia.com

CLIENTE

Oggetto **Dichiarazione di Conformità**

DICHIARAZIONE DI CONFORMITA' CE

Fabbricante: IPR S.r.l.

Indirizzo: Via Statale Asti-Alba 6/B – 12040 Govone (CN) – Italia

Riferimento CDO XXX - RIF XXXXXXXXXXXXX

PORTA RAPIDA INDUSTRIALE MOD. "xxxxxxx"

Matricola : XXXX-XX-XX X

Anno di costruzione : XXXX

Cliente : XXXX

Organismo Notificato Istituto Giordano S.p.A. - n.0407

Il sottoscritto Emanuele Cafagna in qualità di Legale Rappresentante a nome del fabbricante dichiara che la macchina sopra indicata è conforme ai requisiti essenziali della Direttiva 2006/42/CE e della Direttiva 2014/30/UE. Inoltre, l'oggetto della dichiarazione di cui sopra, è conforme alle pertinenti normative di armonizzazione dell'Unione:

EN ISO 12100:2010, EN ISO 13849-1:2015; EN 13241:2003+A2:2016

La presente dichiarazione di conformità è rilasciata sotto responsabilità esclusiva del fabbricante.

Persona autorizzata a costituire il fascicolo tecnico: Emanuele Cafagna

Persona autorizzata a redigere la dichiarazione di conformità: Emanuele Cafagna

GOVONE, xx/xx/xxxx

Emanuele Cafagna
(Legale Rappresentante di IPR S.r.l.)

IPR S.r.l.

Emanuele Cafagna

FAC-SIMILE

22. SAMPLE DECLARATION OF PERFORMANCE (DoP)

I P R S.r.l.
Via Statale Asti-Alba 6/B
12040 Govone – Fraz. Canove (Cn)
Tel. 0173 212052 – Fax 0173 210797

www.ipritalia.com Info@ipritalia.com

DICHIARAZIONE DI PRESTAZIONE (DoP)

CLIENTE xxxxxxx - CDO xxxxxxxx - RIF. xxxxxxxx

Designazione:	*Porta rapida industriale*
Codice di identificazione unico del prodotto-tipo:	*MOD. "xxxxxxx"*
Matricola:	xxxx-xx-xx X
Uso previsto:	*Accesso sicuro di beni e veicoli accompagnati o guidati da persone ad aree industriali, commerciali o residenziali*
Sistema o sistemi di valutazione e verifica della costanza della prestazione del prodotto:	*3*
Norma armonizzata:	*EN 13241:2003 + A2:2016*
Nome e numero di identificazione dell'organismo notificato:	*Istituto Giordano S.p.A. - n.0407*
Numero certificato emesso dall'organismo notificato:	

Prestazione dichiarata:

Caratteristiche essenziali	*Prestazione*	*Norma armonizzata*
Resistenza all'acqua	Passa / *Non determinata*	*EN 13241:2003 + A2:2016*
Rilascio di sostanze pericolose	Passa / *Non determinata*	
Resistenza al carico del vento	Passa / *Non determinata*	
Resistenza termica	Passa / *Non determinata*	
Permeabilità all'aria	Passa / *Non determinata*	
Apertura sicura	Passa / *Non determinata*	
Definizione della geometria dei componenti in vetro	Passa / *Non determinata*	
Resistenza meccanica e stabilità	Passa / *Non determinata*	
Forza di manovra	Passa / *Non determinata*	
Durabilità della resistenza all'acqua, della resistenza termica e della permeabilità all'aria	Passa / *Non determinata*	

La prestazione del prodotto sopra identificato è conforme all'insieme delle prestazioni dichiarate.
La presente dichiarazione di responsabilità viene emessa, in conformità al regolamento (UE) n.305/2011, sotto la sola responsabilità del fabbricante.

GOVONE, xx/xx/xxxx

Emanuele Cafagna
(Legale Rappresentante di IPR S.r.l.)

IPR S.r.l.

Emanuele Cafagna

FACSIMILE

23. VISUAL CHECKS AND TESTS

(Photocopy this checklist and attach it to the maintenance log whenever work is carried out on the high-speed door)

TECHNICAL DOCUMENTATION	**OK**	NOTES
Check that the Operation and Maintenance Manual is present	O	
Check that CE marking and serial number are present	O	

ISOLATION, CONTROL AND EMERGENCY STOP	OK	NOTES
Suitability of emergency control devices	O	
Suitability of control devices: START BUTTON – RADAR – INDUCTIVE LOOPS – PHOTOCELLS, etc.	O	
Suitability of circuit isolation devices	O	

CONTROL PANELS	OK	NOTES
Control panel identification and condition	O	
Condition of components installed in the panel	O	
Condition and suitability of internal and external connections	O	
Condition and suitability of visual and audible devices	O	

SAFETY DEVICES	OK	NOTES
Condition and operation of photocells	O	
Condition and operation of wireless safety edge, if fitted	O	
Condition and operation of photoelectric light curtain	O	

STRUCTURES AND CURTAINS	OK	NOTES
Condition and suitability of fixing screws	O	
Condition and suitability of pivots and moving parts, gearbox, motor, chain couplings, etc.	O	
Condition and suitability of structural parts: uprights, crossbeam, etc.	O	
Condition and suitability of curtain, zips, welds, reinforcing tubes, etc.	O	
Cleanliness of plastic parts (photocells, flashing light, etc.)	O	

24. MAINTENANCE LOG

	Cycles	Date	Service company	Supervisor's stamp and signature
1				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
2				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
3				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
4				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
5				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
6				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
7				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
8				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
9				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
10				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
11				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
12				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
13				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
14				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
15				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
16				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

	Cycles	Date	Service company	Supervisor's stamp and signature
17				

Work type

☐ Routine maintenance (attach visual checks and tests) ☐ Repair

☐ Special maintenance ☐ Other / Modifications*

*Substantial modifications require a new Technical File, subject to prior authorisation by the manufacturer

Description of work carried out:

TECHNICAL OR MAINTENANCE NOTES
Any recurring door problems

Description of work or malfunction found.