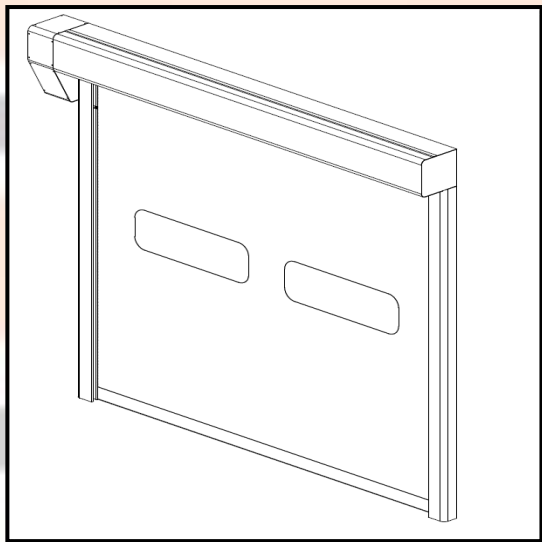




INSTALLATION, USE AND MAINTENANCE MANUAL



***RAPID SELF-REPARING
VERTICAL ROLL-UP DOOR***

**Models: FlexiRun®
FlexiRun® Chill
FlexiRun® Cold1**



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1. FOREWORD AND GENERAL INFORMATION

This installation manual is addressed exclusively to professionally skilled technicians.

The installation, electrical connections and adjustments are to be carried out following the technical code of practice and in observance of the Standards in force.

Read the instructions with care before starting the product installation. A wrong installation could be the source of danger. The packaging materials (plastic, polyester, wood, etc) are not to be abandoned in the environment and are not to be left within the reach of children, since they are a potential source of risk.

Before starting the installation check the product is intact

Do not install the product in explosive environments or atmospheres: the presence of gas or inflammable fumes are a serious hazard for safety. Before installing the door, make all the structural modifications to ensure safety and protection and/or segregation of all the zones where crushing, shearing, involvement and dangers generally could take place.

Check that the existing structure has the necessary requirements regarding strength and stability. The safety devices (photocells, sensitive frames, emergency stop button, etc.) are to be installed taking into account: standards and directives in force, Good Technical Practice criteria, installation environment, system functioning logic and the forces developed by the door. The safety devices are to protect any zones of the door where crushing, shearing, general hazards could take place. Apply the indications required by the standards in force to identify hazardous zones.

Every installation is to have the indication of the door identity Date well visible.

Before connecting the electrical power supply, make sure that the plate Date corresponds to that of the electrical distribution network, check that upstream of the electrical plant there is a differential switch (at least Cat.b) and an adequate overload protection. Connect the door to an efficient ground system, in compliance with the safety standards in force.

The door manufacturer shall not be held liable if components are installed that are not compatible regarding safety and good functioning or if any type of modifications are made without the specific authorisation of the manufacturer. For any repairs or replacement of products only original spare parts of IPR Srl are to be used.

The installer shall provide all the information regarding the door automatic, manual and emergency functioning and hand over this use and maintenance manual to the user.

This manual has been written and printed by IPR Srl and duplication, even only partial, is forbidden. The original is filed in IPR Srl. The manufacturer reserves the right to modify the contents without prior notice. This manual is an integral part of the machine and is to be kept with care and made available for the user and/or the end user.

2. TRAINING

It is the responsibility of the Customer to ensure that all the personnel who are to operate or service the high-speed door attend training, instruction courses and become qualified as trained operators.

All the personnel who operate, inspect, repair, or clean the high-speed door are to be appropriately trained for the functioning and safety of the same.

Before using this high-speed door, read the instructions for use contained in this technical manual.

3. GENERAL SAFETY PRECAUTIONS

The personnel involved in the use of the machinery is to be provided with personal protection devices (PPD) appropriate for the type of activity performed and for the working environment where the machinery is installed in accordance with the standards in force.

Warning! Lack of maintenance can cause insecure functioning!

Understand and use the safety procedures before inspecting, servicing, repairing, or cleaning the high-speed door to avoid that somebody accidentally activates the same.

Know how the door functions and understand the operating processes.

Know how to stop the door. The emergency "Stop" button is located on the panel.

Understand the safety labels of the high-speed door and observe them.

Make sure that no part of garments can become caught-up in the door. When working on or around moving elements, do not wear loose garments, jewellery, long, loose hair or ties, scarves or other items that could remain caught in the moving parts.

Check the plant voltage, attain to the voltages specified on the door labelling.

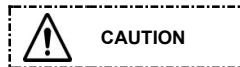
4. SAFETY INDICATIONS



A hazardous situation that, if not avoided, could cause death or serious personal injuries.



A hazardous situation that, if not avoided, could cause death or serious personal injuries.



A hazardous situation that, if not avoided, could cause slight or medium injuries.



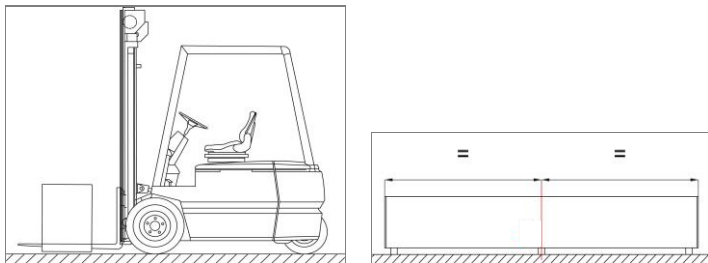
Indicates information that is considered important and that does not cause personal injuries.

5. TERMS AND DEFINITIONS USED

Trained operator	Authorised person who can use the door and related accessories
Qualified technician	Person appropriately instructed and trained, qualified with knowledge and practical experience, having the knowledge and information to carry out the installation required in a correct and safe manner.
Log-book	Book that contains the general Date regarding the door and with appropriate space to record results of inspections, tests, maintenance and each repair or modification made to the door.
Owner	Natural person or legal representative who has the power to place the door and who assumes the responsibility for its functioning and use.
Maintenance	All the operations required to ensure correct and safe functioning of the door and its components and accessories after the installation. Maintenance includes adjustments, repair or replacement due to wear or accidental breakage of components.

6. HANDLING

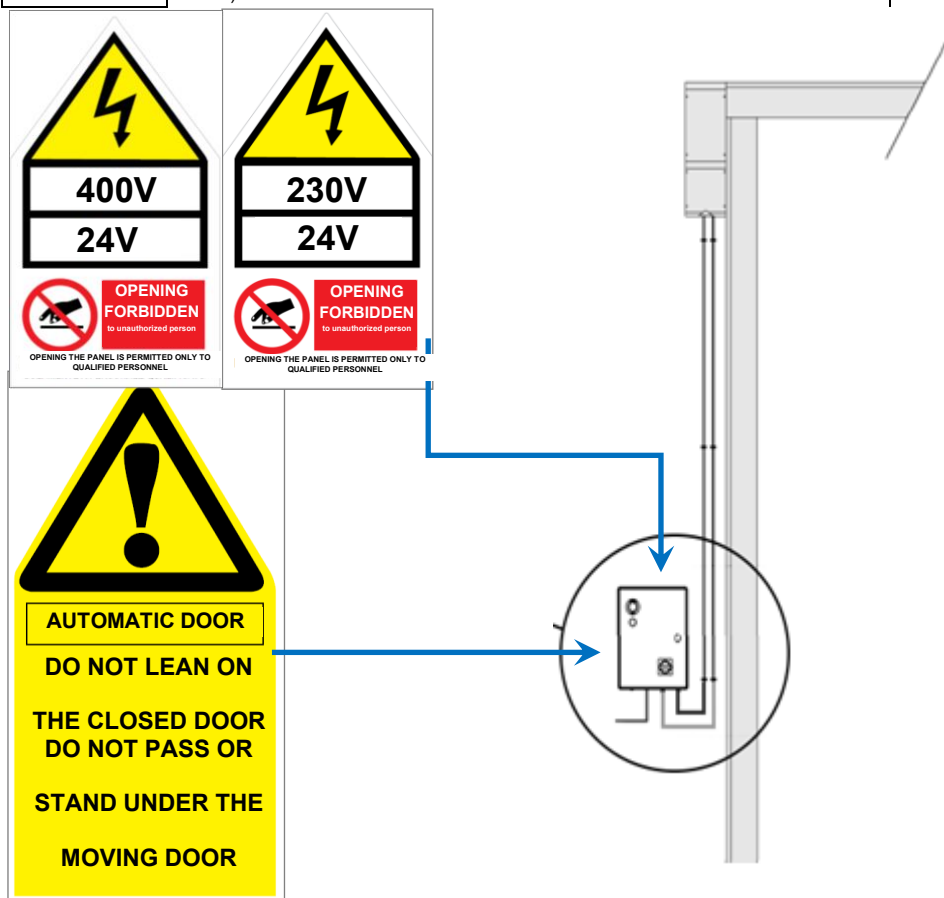
The door is to be handled taking into account the weight and possible movements that could arise during the movement. Use lifting equipment and transport appropriate for the dimensions and weight. Check the position of the forks according to the centre of gravity of the package. Before starting the installation, check that the product is intact.



7. LABELS

IMPORTANT NOTE

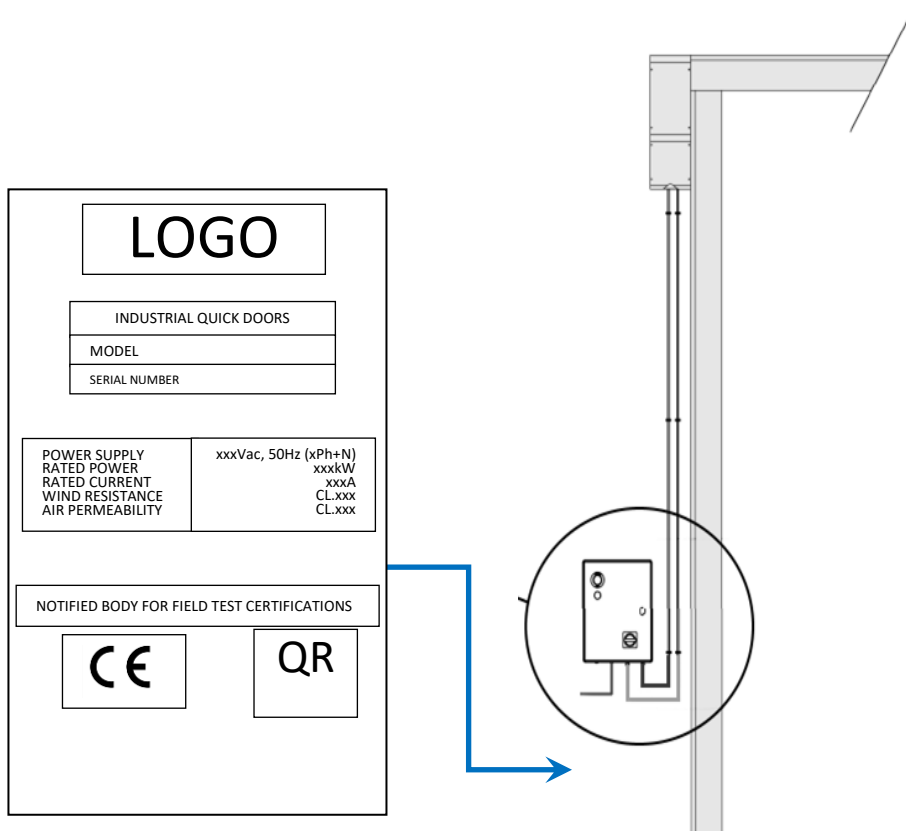
The labels are an integral part of the Use and Maintenance Manual; Always check that the labels are present and replace them if they are removed or worn (illegible labels).



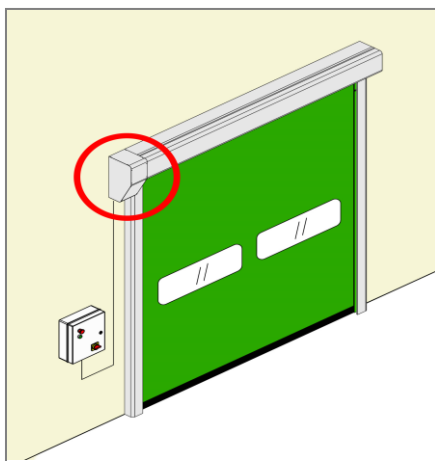
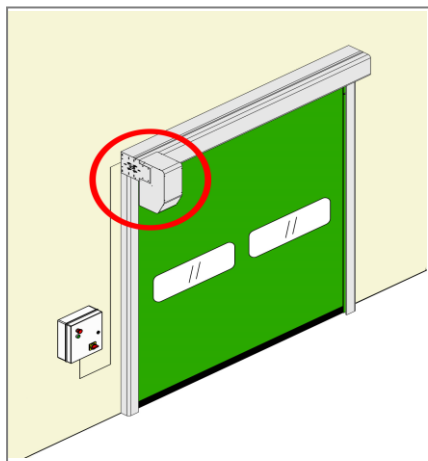
All the labels in the Use and Maintenance manual, besides providing basic indications regarding the type of power supply for the door, also provide indications for the management of safety, correct use and implementation of any safety procedures in the installation zone.

8. TECHNICAL SPECIFICATIONS

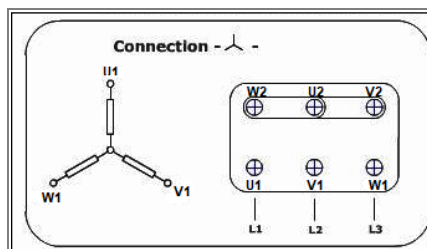
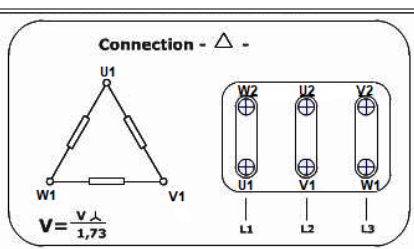
a. EC marking and position



The EC marking is applied on the exterior of the electric control panel.

b. Motor models**LATERAL** left/right**FRONT** left/right**ELECTRIC POWER SUPPLY**

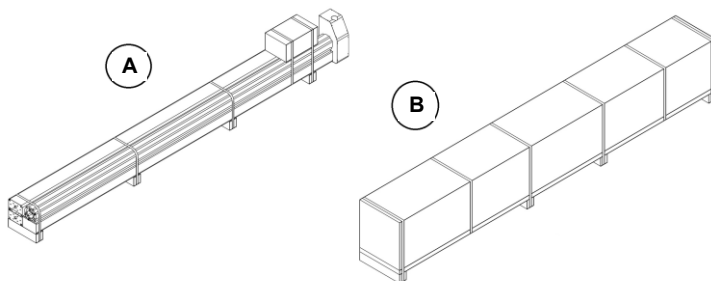
230 Vac (1PH+N)
 50/60 Hz
 10 A – 16 A
 0,55 ÷ 2,7 kW
 IP55
 IP66
 -30 ÷ +70 °C

400 Vac connection**230 Vac connection****IMPORTANT NOTE**

400V three-phase power supply connection of star motor
 230V three-phase power supply: connection of delta motor
 Always test before putting the door into service.

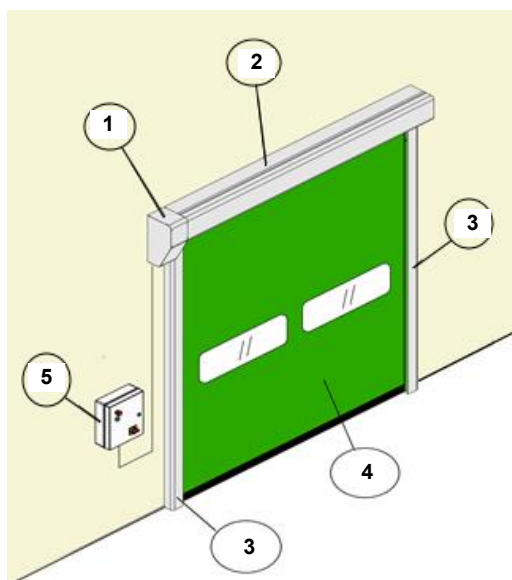
c. Weight

The weight changes according to the dimensions of the door and is indicated on the packaging.

d. Main components of the packaging

“A” Standard packaging + protective film

“B” Wooden packaging (optional)

e. Main components of the rapid door

1 Motor group

3 Uprights

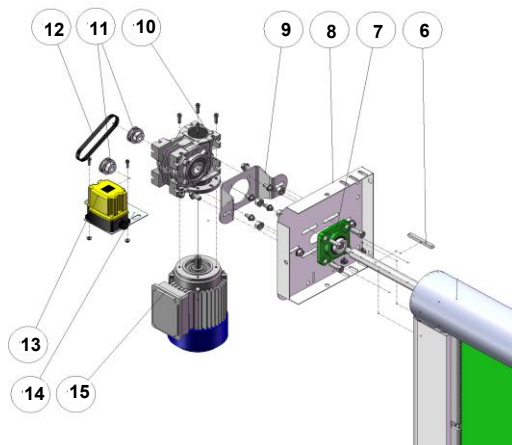
5 Electric panel

2 Cross member

4 Curtain

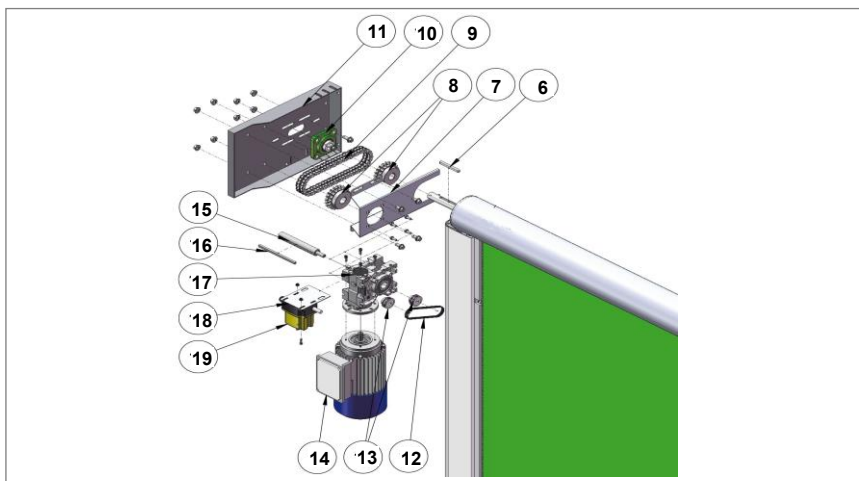
GEAR MOTOR GROUP

LATERAL

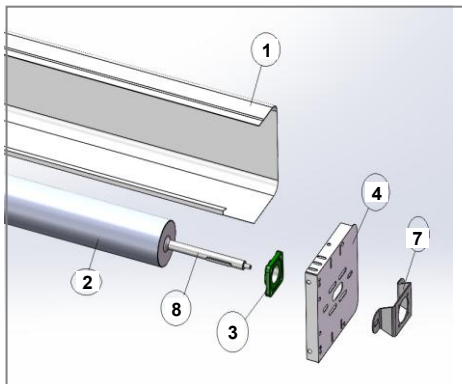
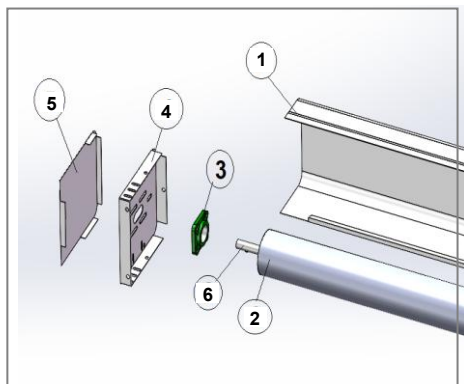


- | | | | | | |
|---|---------------|----|----------------------|----|--------------------|
| 6 | Pin and key | 10 | Reducer | 14 | Limit switch plate |
| 7 | Bearing | 11 | Limit switch pinions | 15 | Motor |
| 8 | Lateral plate | 12 | Chain | | |
| 9 | "Omega" plate | 13 | Limit switch | | |

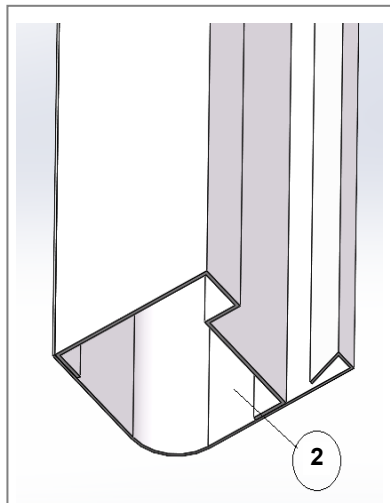
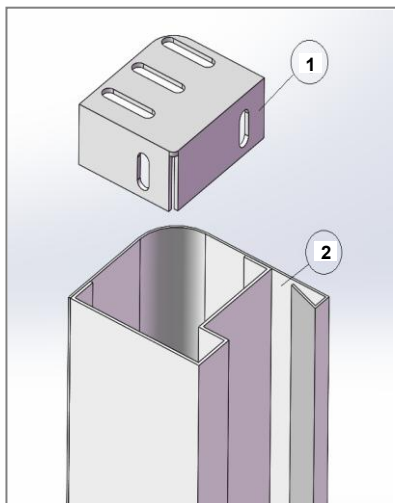
FRONTAL



- | | | | | | |
|----|--------------------|----|----------------------|----|---------------|
| 6 | Pin and key | 7 | Gearbox plate | 8 | Pinions |
| 9 | Chain | 10 | Bearing | 11 | Lateral plate |
| 12 | Limit switch chain | 13 | Limit switch pinions | 14 | Motor |
| 15 | Pin | 16 | Key | 17 | Gearbox |
| 18 | Limit switch plate | 19 | Limit switch | | |

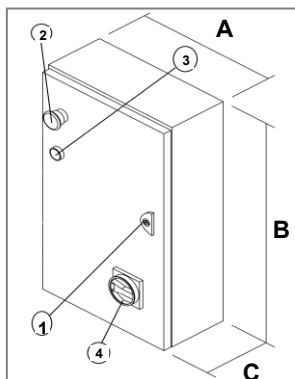
CROSSBAR

- | | | | | | |
|---|-----------------|---|-------------------|---|----------------------|
| 1 | Crossbar casing | 2 | Winding pipe | 3 | Bearing |
| 4 | Lateral plate | 5 | Closing plate | 6 | Pin on opposite side |
| 7 | "Omega" support | 8 | Pin on motor side | | |

UPRIGHTS

1 Joining plate

2 Upright

ELECTRIC PANEL**Metal panel**

A = 300 mm

B = 400 mm

C = 160 mm

PVC panel

A = 295 mm

B = 385 mm

C = 130 mm

ACCESSORIES

- 1 - Lock
- 2 - EMERGENCY STOP button
- 3 - Open/close button
- 4 - Main switch

*f. Safeties and guards***Safety devices:**

- Photocells
- Pair of photoelectric barriers

Fixed guards:

- Crossbar and roller closure casing
- Uprights closure casing
- Motor closure casing

IMPORTANT NOTE

The safety devices installed depend on the dimensions of the door.

**DO NOT REMOVE THE GUARDS**

The manufacturer does not accept liability for the use of the machine without guards. Immediately repair any protections that show signs of damage or wear.

9. FORESEEN USE AND LIMITATIONS

The automation described is a high-speed door with vertical movement, designed to close internal or external compartments, that allow transit between two environments. Transit is usually for vehicles, for example trucks, lift trucks, AGV etc. or pedestrians. Mixed transit through the door is only permitted when this is secure, and the personnel is correctly trained by the customer. The door is not to be used without supervision by children or persons who have physical sensorial or mental disabilities.

In this case an analysis of risks is to be carried out by the user to ensure the safety of the passage. The door is only to be used for the purposes for which it has been specifically designed. Any other use is improper and therefore hazardous. The manufacturer shall not be held liable for damages caused by improper, wrong, or irrational use. The door is not to be used as an emergency exit, because it has not been homologated for this use.

Environment limitations

Working environment	Internal/external industrial zone
Temperature	-30 ÷ +70 °C
Related humidity	5% ÷ 85% * (* max 50% with temperatures over 40°C)
Altitude	≤ 1000 mt s.l.m. * (* higher altitudes with optional accessories)
Lighting	higher altitudes with optional accessories (> 200 lux.. *) (* responsibility of the customer)

10. INSTALLATION

IMPORTANT NOTE

The installation is to be carried out by a qualified technician.

a. General safety warnings

For the mechanical installation, appropriate equipment is to be used for the lifting of the automation and for access to the high-level parts.

Check that the structure where the door is to be installed is able to support the weight of the machine, taking into account both the dynamic and static factors, and any possible vibrations that could arise during motion.

Electrical connections and adjustments are to be carried out following the indications in this Manual and observing good technical practice.

Before connecting the electric power supply make sure that the Date on the plate is the same as that of the electrical distribution network

On the power supply line an opportunely dimensioned switch/circuit breaker is to be provided by the customer or by who is in charge of the power supply network.

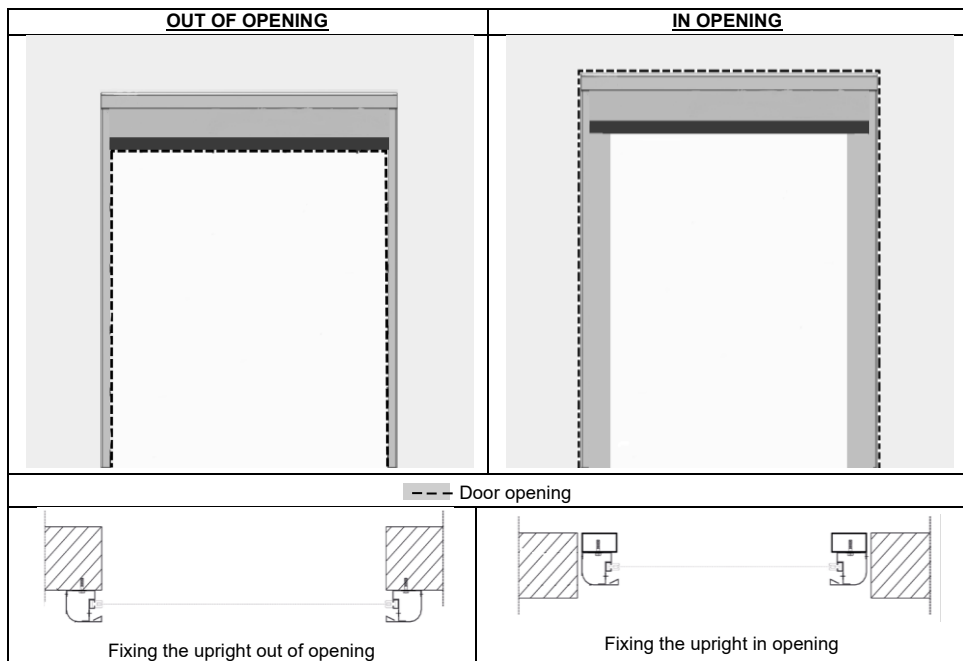
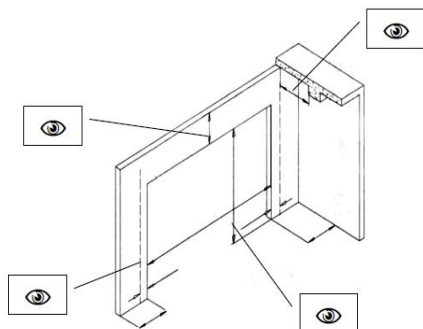
Check that the power supply line is protected by a differential device and has overload protection. Connect the door to an efficient ground system. After the installation, the installer shall supply all the information regarding automatic, semi-automatic, manual and emergency operation of the door, and shall hand-over this Use and Maintenance Manual to the plant user .

**CAUTION**

A WRONG INSTALLATION CAN BE A SOURCE OF DANGER DURING THE MACHINE OPERATION

b. Type of installation

Before starting the installation operations, check the dimensions of the opening in relation to the dimensions of the door, check there are no protrusions and that the assembly tolerances are correct.

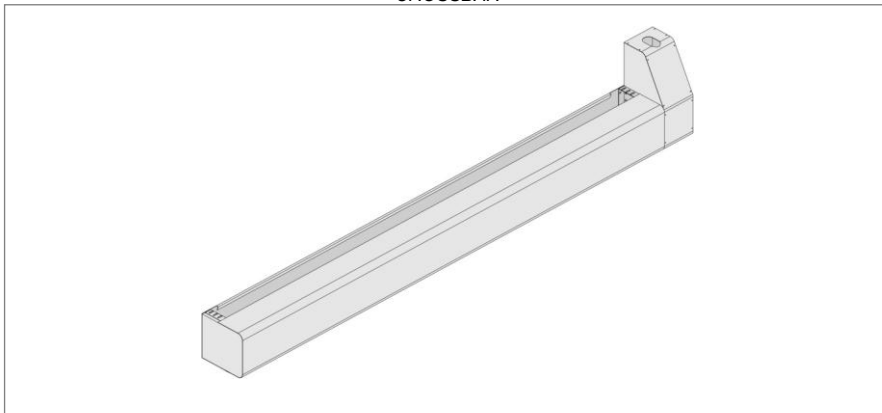


c. Mechanical installation, anchorage and preliminary wiring

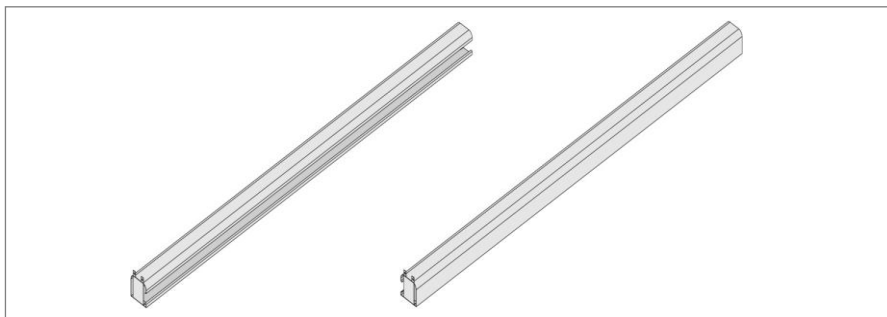
Before installing the door, check that the floor, the existing walls, or the supporting structure have the necessary sturdiness able to support the weight of the door, taking also into account the dynamic thrusts caused by normal operation (wind pressure) and possible impacts. If necessary, make any structural modifications required, which are to be performed before starting the installation.

Before starting the assembly, check there are all the fundamental parts of the door:

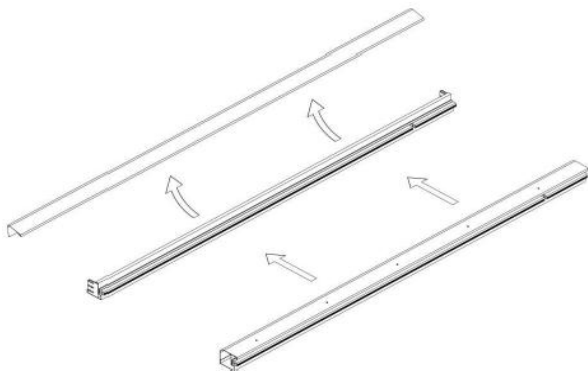
CROSSBAR



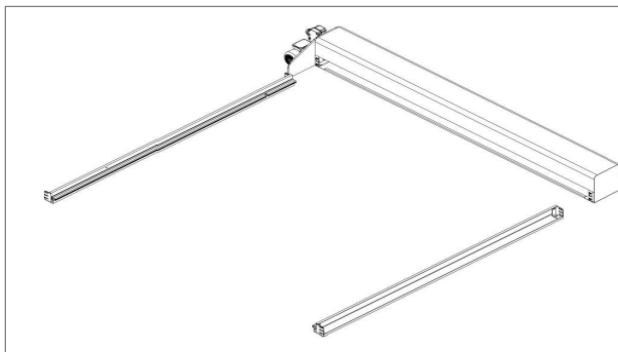
UPRIGHTS



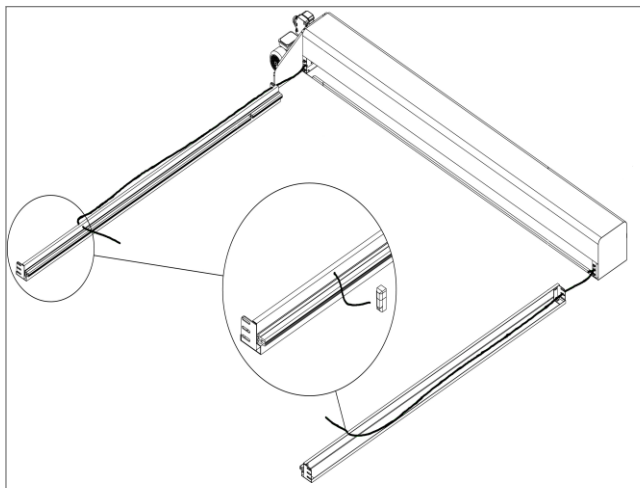
- **CURTAIN;**
For the "Flexirun" the curtain is wrapped on the roll-up roller which is inside the crossbar already positioned and ready to be inserted inside the uprights;
- **ACCESSORIES;**
All the standard and optional accessories are contained in the cardboard box.
Accessories that cannot be inserted in the box are inserted inside the packaging.



1. Position the uprights on the ground;
2. Unscrew the casing fixing screws;
3. Remove the casing from the housing.

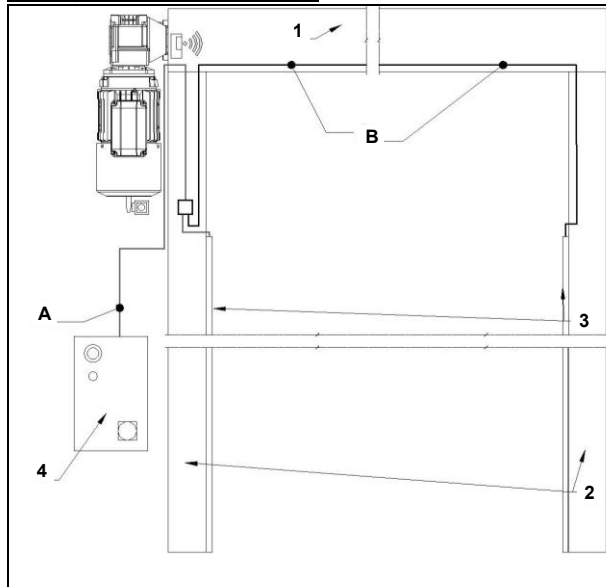


Fasten the pillars to the crossbeam using the appropriate brackets. When the doors are larger than 4x4 m, provisionally fix the pillars to the wall and then raise the crossbar and connect it to the pillars.



Proceed with the ground wiring by running the cables as shown in the figure.

Bring the uprights closer to the crossbar and connect them by means of bolts, nuts and connecting brackets provided.

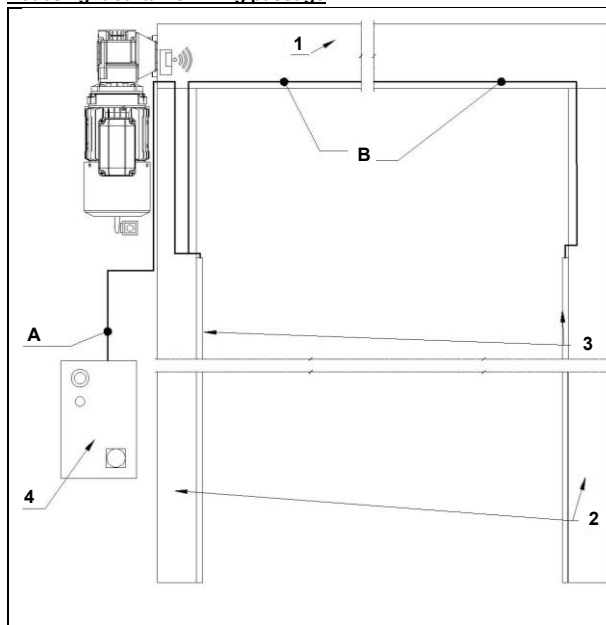
d. Light CurtainsTelco light curtains wiring passage

COMPONENTS:

1. Crossbar
2. Upright
3. Light curtains
4. Control box

CABLINGS

- A. Cable RX to Control BOX
- B. Cable RX to TX.

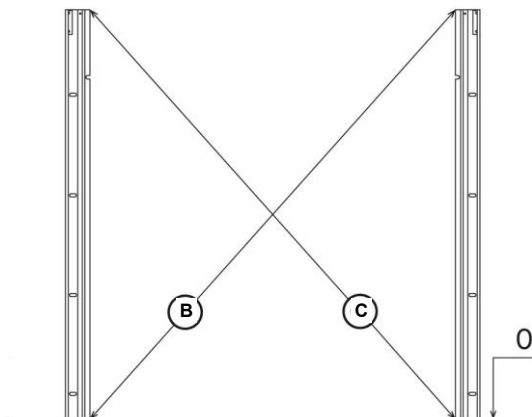
Cedes light curtains wiring passage

COMPONENTS:

1. Crossbar
2. Upright
3. Light curtains
4. Control box

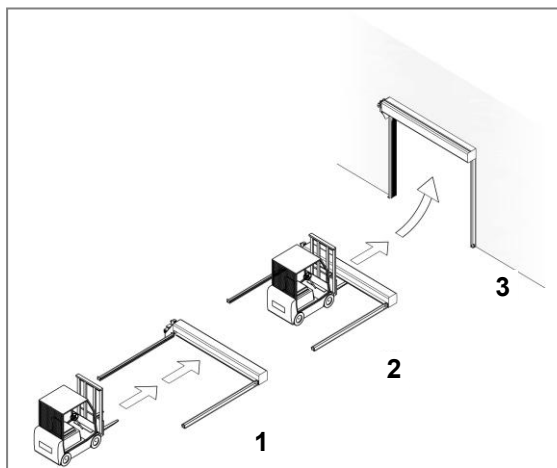
CABLINGS

- A. Cable RX to Control BOX
- B. Cable RX to TX.



Make sure the tabletop is planar; check the geometry of the pillars and the horizontality of the crossbar and proceed with fixing as described below.

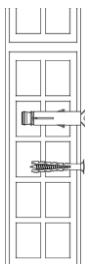
($B=C \pm 5\text{mm}$)



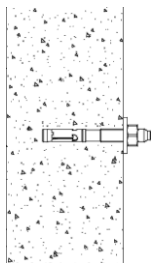
Raise the structure with a suitable means by preliminarily securing both the crossbar and the uprights, still leaving the possibility for any adjustments and/or centring.

Complete the fastening using the supplied brackets and/or additional anchors where necessary. With widths > 4 m support the traverse at least every 2 m.

Fixing examples:



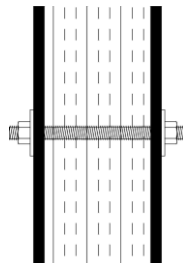
Bricks



CLS



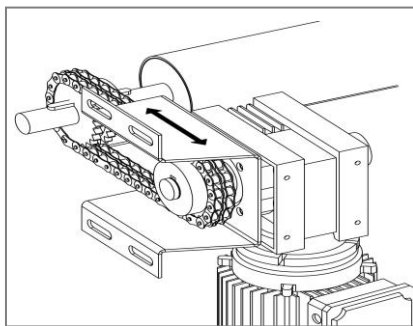
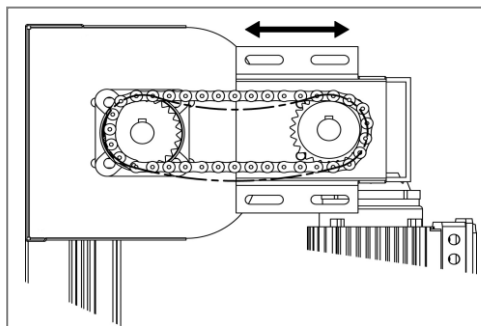
Steel

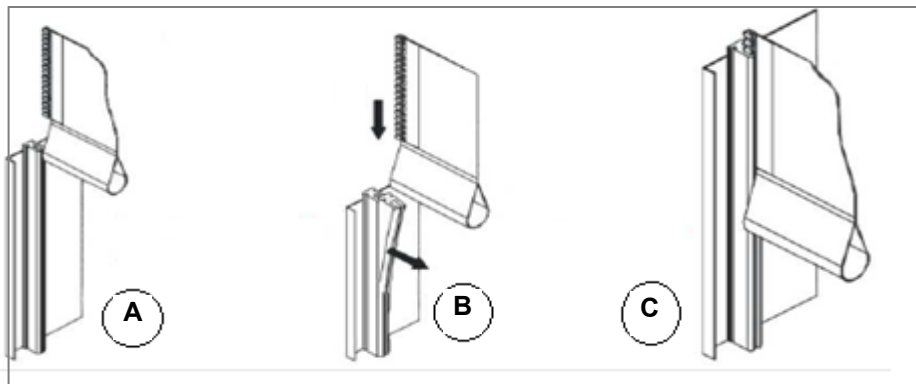


Insulated plasterboard
/ insulated panel

**CAUTION**

IN THE CASE OF A DOOR WITH A FRONT MOTOR: BEFORE LIFTING THE CURTAIN, ENSURE THAT THE DRIVE CHAIN IS CORRECTLY TENSIONED USING THE SLOTS ON THE PLATE.

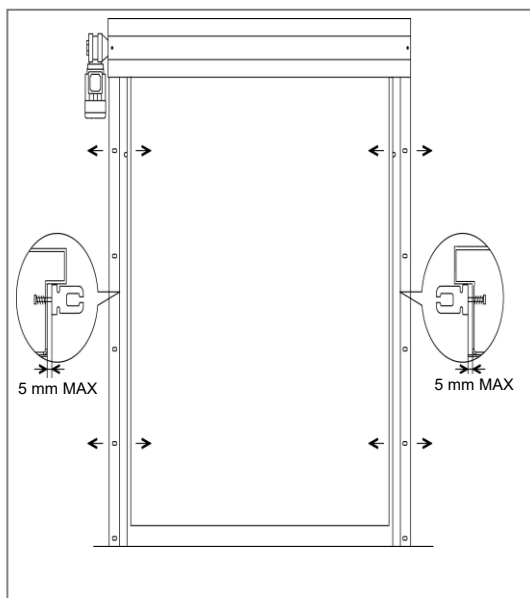


e. Curtain positioning and correct tensioning

A - Using the release rod, pull the fabric out of the crossbar until the hinge is 50 - 100 millimetres below the height of the runners.

B - Act on the guides by bending them towards the curtain and insert the hinge into the guides.

C - Lower the curtain by approximately 500 millimetres and then feed it into the electrical panel.



After powering up the electrical panel, act on the circuit board to bring the curtain down to the ground.

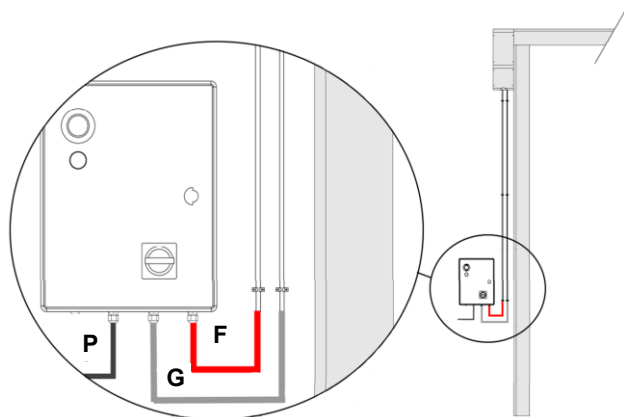
1. PRESS THE **"ENTER"** BUTTON (LEFT TO RIGHT) TO ENTER THE PROGRAMMING MENU.
2. SCROLL WITH THE ARROWS TO THE **"MANUAL MOVE"**
3. PRESS **"ENTER"**

- ▼ To low the curtain
 ▲ To rise the curtain

**IMPORTANT
NOTE**

If the buttons are reversed, disconnect the power supply and reverse 2 motor phase cables on the circuit board.

Always check the correct tensioning of the curtain, correct it if necessary, using the two side guides, then finally secure the uprights. If the curtain does not descend and/or descends with difficulty, adjust the compression of the springs by decreasing the tension of the curtain.

f. Electrical panel installation and connections to it

Install the electrical panel at a height suitable for use (approx. 1500 mm above the ground) and use cable ducts and cables suitable for the regulations in force. **Separate power and signal cables in separate cable ducts.**

P – Main power supply

F – Plug & Play Cabling or direct wiring for services and controls

G – Cable for motor power supply

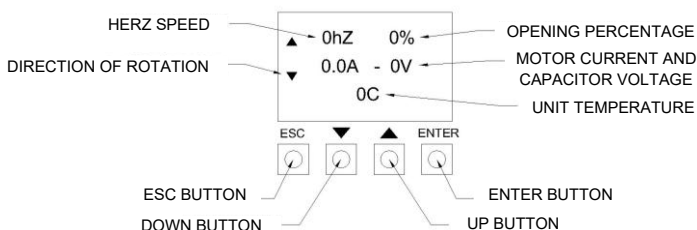
Before connecting the power supply, make sure that the nameplate Date correspond to those of the power distribution network; check that there is a suitable earth leakage circuit breaker (at least Cat.b) and overcurrent protection upstream of the electrical installation. Connect the door to an effective earthing system carried out in accordance with current safety regulations.

**CAUTION**

BEFORE CONNECTING THE CONTROL PANEL, ENSURE THAT THE DOOR DRIVE SWITCH IS SET TO "OFF" IN ORDER TO AVOID ABRUPT AND UNEXPECTED LIFTING OF THE CURTAIN WITH THE POSSIBILITY OF DAMAGE TO THE DOOR AND POSSIBLE RISKS TO OPERATORS IN THE VICINITY OF THE DOOR.

g. Use of inverter

The inverter unit features the possibility of adjusting several parameters, both for the customer and the installer. It is equipped with an oled display and 4 buttons:



To enter the settings, simply press the **ENTER** button. With the **UP** and **DOWN** buttons, you can scroll through the settings, once you reach the setting you want to change press the **ENTER** button again, change its parameters with **UP/DOWN** and press **ENTER** to confirm. Each press of the **ESC** button allows you to return to the previous menu/section or to exit the current parameter without saving changes.

h. ENCODER adjustment

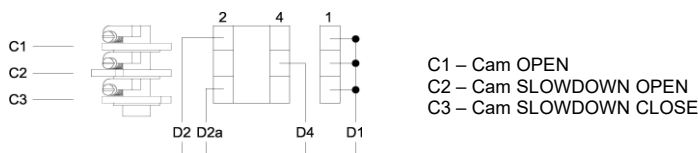
In order to adjust the position of the door when equipped with an encoder, proceed as follows:

1. Access the **Lvl2 menu** keeping pressed "**ESC**" + "**UP BUTTON**" buttons for 5 seconds as described in section [Inverter use](#). The default password is **2000**
2. Navigate to the "**Positioning mode**" and check that it is set in "**Kostal**", otherwise modify it.
3. Navigate to the "**Manual mode**" and press "**ENTER**"
4. Move the door with the buttons **UP/DOWN** and check the direction of rotation to bring it halfway open. If incorrect:
 - a. Disconnect the power supply
 - b. Reverse one of the phases of the motor cable
5. Navigate to the "**Positioning Calibrate**" and press "**ENTER**"
6. Move the door with the buttons **UP/DOWN** until the message "**Calibration complete**" appears.
PRESS ENTER
7. Calibration completed
8. Navigate to the "**Positioning Set Low**" and press "**ENTER**"
9. Bring the door to the closed position with the buttons **UP/DOWN** and press "**ENTER**"
10. Navigate to the "**Positioning Set High**" and press "**ENTER**"
11. Bring the door to the open position with the buttons **UP/DOWN** and press "**ENTER**"
12. **Execute 4 complete open/close movement of the door to complete the process. During this phase is normal if the door doesn't reach the limits set. Do not cross the photocells or trigger safety devices during this calibration.**

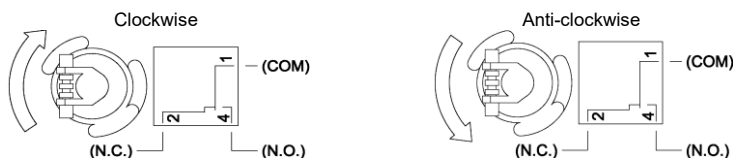
i. MECHANICAL LIMIT SWITCH adjustment

In order to adjust the position of the door when equipped with a mechanical limit switch, proceed as follows:

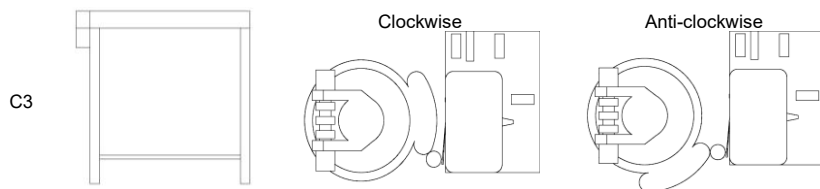
1. Access the **Lvl2 menu keeping pressed "ESC" + "UP BUTTON" buttons for 5 seconds** as described in section [inverter use](#). The default password is **2000**
2. Navigate to the **"Positioning mode"** and check that it is set in **"Slow limits"** mode, otherwise modify it.
3. Navigate to **"Manual mode"** and press **"ENTER"**
4. Move the door with the buttons **UP/DOWN** and check the direction of rotation to bring it halfway open. If incorrect:
 - a. Disconnect the power supply
 - b. Reverse one of the phases of the motor cable
5. Adjust the limit switch located above or in front of the gearbox (remove yellow cover to access the cams) according to the instructions below:



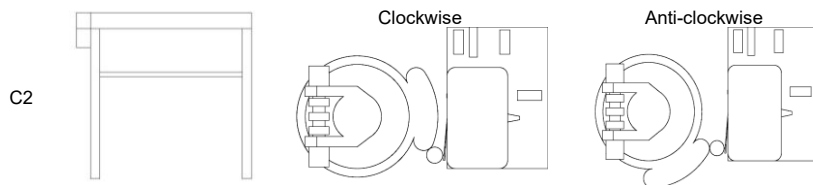
A – When moving the door in manual mode, check the direction of rotation of the limit switch cams in the crossbar.



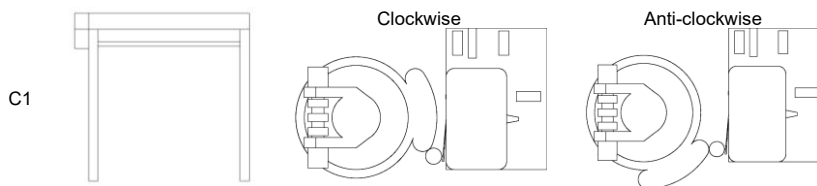
B – Moving the door in manual mode, lower the curtain to 40-50cm from the ground and adjust cam "3" according to the direction of rotation for end of stroke - slowing down closure.



C – Bring the curtain to approximately 60 cm from the maximum opening and adjust cam "2" according to the direction of rotation.



D – Move the curtain to the fully open position and adjust cam 1 according to the direction of rotation.

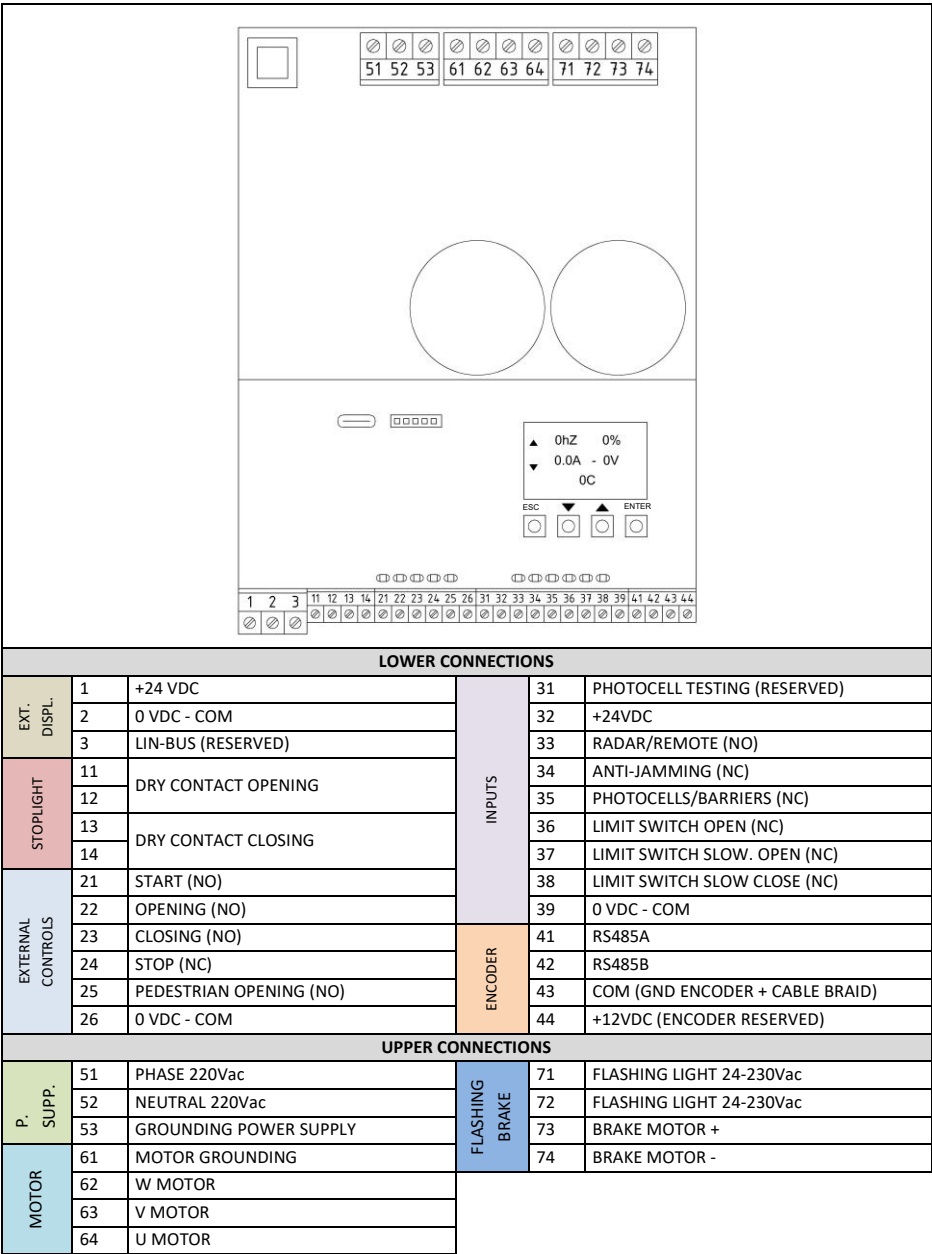


6. Navigate to the **"Positioning calibration"** and press **"ENTER"**
7. Follow the on-screen instructions until you see the message **"Calibration complete"**
8. Navigate to the **"Positioning Set Low"** and press **"ENTER"**
9. Adjust the door with the **UP/DOWN** buttons to the final closing position and press **"ENTER"**
10. Navigate to the **"Positioning Set High"** and press **"ENTER"**
11. Adjust the door with the **UP/DOWN** buttons to the final opening position and press **"ENTER"**
12. Calibration completed

**IMPORTANT
NOTE**

The first manoeuvres of the door may not reach the set closing and opening limit switches. This behaviour is normal and allows the electronics to make a control cycle on the movements. Check with the second opening and second closing that the limit switch/encoder is working properly and that the fabric stops in the desired positions.

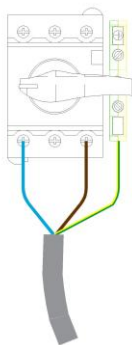
j. Board and pin connections



The machine's safety functions guarantee a Performance Level "c" in Category 2, according to EN ISO 13849-1:2015.

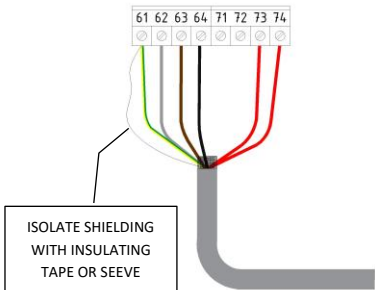
k. Standard board electrical connections

Power supply (230Vac)



GREY CABLE		
PIN	COLOUR	FUNCTION
1	BLUE	N-230VAC
3	BROWN	L-230VAC
4	GREEN/YELLOW	GROUND

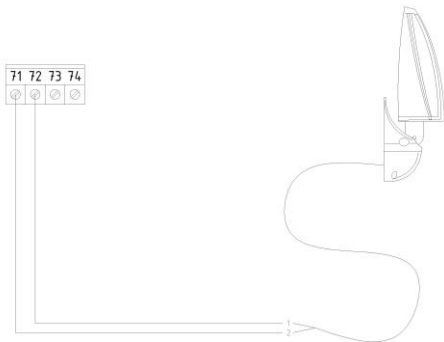
Motor(400Vac) + Brake (110Vac)



GREY CABLE		
PIN	COLOUR	FUNCTION
61	GREEN/YELLOW	GROUND+SHIELD
62	GREY	U
63	BROWN	V
64	BLACK	W
73	RED	BRAKE
74	RED	BRAKE

GREY CABLE (SHIELDED)		
PIN	COLOUR	FUNCTION
61	GREEN/YELLOW	GROUND+SHIELD
62	GREY	U
63	GREY	V
64	GREY	W
73	RED	BRAKE
74	RED	BRAKE

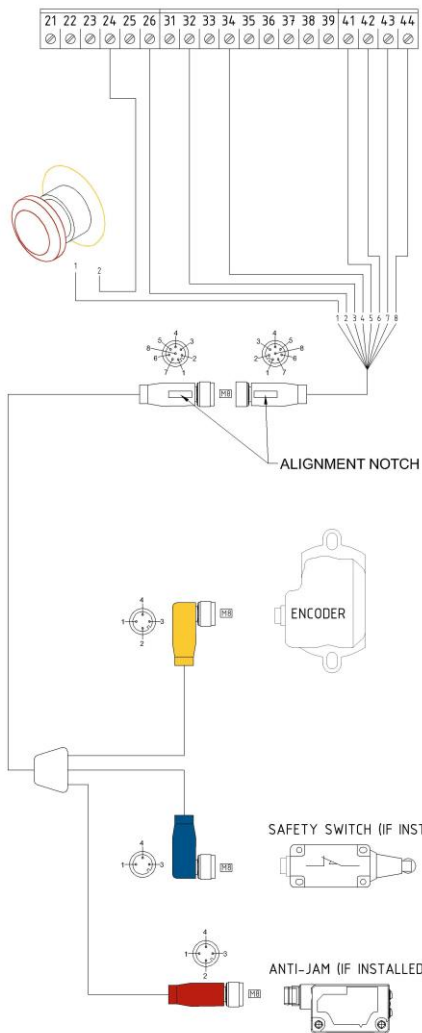
Flashing light



-		
PIN	COLOUR	FUNCTION
71	-	L-230VAC
72	-	N-230VAC

Main connections (ENCODER)

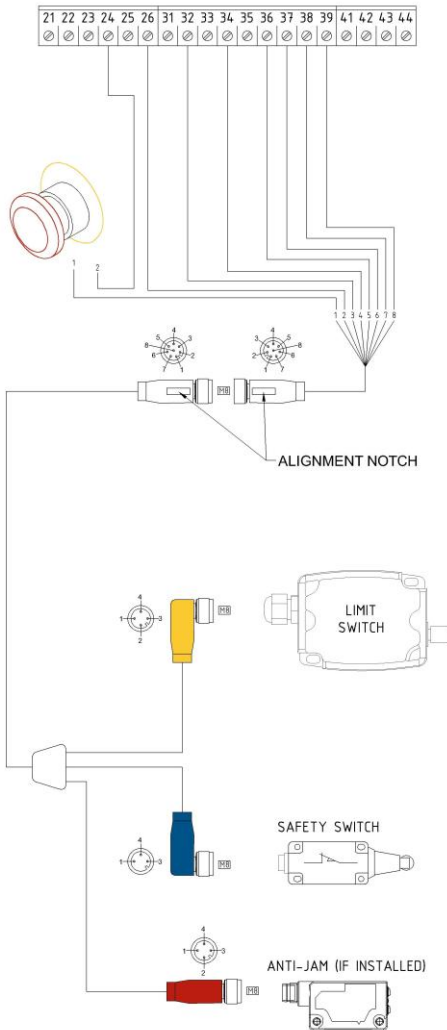
INSTRUCTIONS FOR MECHANICAL
LIMIT SWITCH



BLACK CABLE

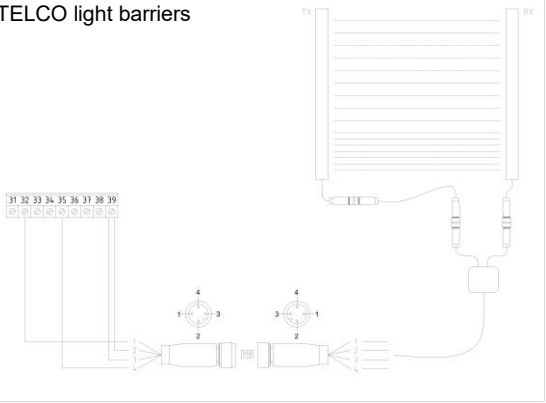
PIN	COLOUR	FUNCTION
24	BROWN	STOP (NC)
26	BROWN/WHITE	COM
32	BLUE	+24VDC
34	BLUE/WHITE	ANTI-JAM (NC)
41	RED	RS485A
42	RED/WHITE	RS485B
43	GREEN + SHIELD	GND
44	GREEN/WHITE	+12VDC

Main connections (MECHANICAL LIMIT SWITCH)



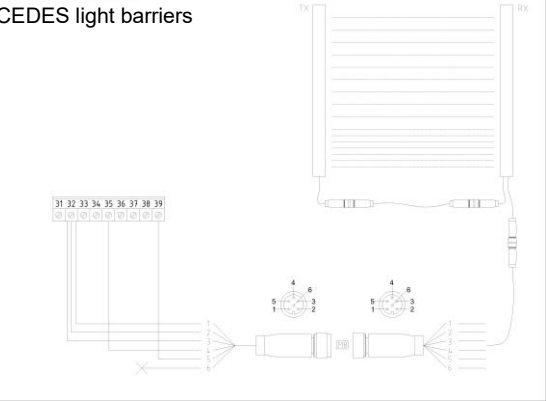
BLACK CABLE		
PIN	COLOUR	FUNCTION
24	BROWN	STOP (NC)
26	BROWN/WHITE	COM
32	BLUE	+24VDC
34	BLUE/WHITE	ANTI-JAM (NC)
36	GREEN/WHITE	LIMIT OPEN (NC)
37	RED/WHITE	LIMIT SLOW OPEN (NC)
38	RED	LIMIT SLOW CLOSE (NC)
39	GREEN	GND

TELCO light barriers



GREY CABLE		
PIN	COLOUR	FUNCTION
32	BROWN	+24VDC
35	BLACK	PHOTOCELL(NC)
39	WHITE + BLUE	COMMON

CEDES light barriers



BLACK CABLE – BLUE CONNECTOR		
PIN	COLOUR	FUNCTION
32	BROWN + GREY + WHITE	+24VDC
35	BLACK	PHOTOCELL(NC)
39	BLUE	COMMON
-	GREEN	NOT CONNECTED

I. Board operation instructions – LEVEL 1 MENU

Please refer to section [Inverter use](#) for basic information on using the unit.

Below is the list of **OPTIONS** for the **LEVEL 1** (customer) menu.

ID	Entry.	DESCRIPTION	DEFAULT	RANGE
1.1	Menu Language	Allows you to set the language.	English	IT/EN/NL/DE/FR/PL/CZ/SK
1.2	Cycle Counter	Shows the total number of door opening cycles	/	/
1.3	Auto Close	Seconds delay before automatic closing in case of opening from the START, RADAR or OPEN input. 0 = disabled	5	0-60
1.4	Auto Close Pedestrian	Seconds delay before automatic pedestrian closure in case of opening from PEDESTRIAN input. 0 = disabled	5	0-60
1.5	Auto Close Photocell	Seconds delay before automatic closing when opening from PHOTOCELL input. 0 = disabled	2	0-60
1.6	Manual Mode	Manual mode for motor movement. All entrances and security are ignored.	/	/
1.7	Reversal Delay	Reversal delay in case of re-opening during closing. Value in milliseconds	Disabled	100-2000
1.8	Lamp Preflash Open	Seconds of flashing advance before door opening	0	1-60
1.9	Lamp Preflash Close	Seconds of flashing advance before door closing.	0	1-60

**CAUTION**

Any change to the DEFAULT parameters could impair the operation of the machine and/or cause danger or injury.

In the interests of safety, it is necessary to train and inform the personnel using the machinery about its operation and any dangers arising from its use.

m. Board operation instructions - LEVEL 2 MENU

Please refer to section [Inverter use](#) for basic information on using the unit.

Below is the list of **LEVEL 2 MENU** for the installer. **N.B.: Values marked with an asterisk (*) should only be changed after consulting the manufacturer.**

To enter the LEVEL 2 MENU, press and hold the “ESC” and “UP” buttons simultaneously for 5 seconds.

The default PASSWORD is “2000”

ID	Entry.	DESCRIPTION	DEFAULT	RANGE
2.1	Initial Calibration	Allows you to perform limit switch and motion calibration.	/	/
2.2	Positioning Set Low	Allows you to set or adjust the closed position	/	/
2.3	Positioning Set High	Allows you to set or adjust the opening position	/	/
2.4	Positioning Set Pedestrian	Allows you to set or adjust the pedestrian opening position	/	/
2.5	*Opening Speed	Opening speed (Hz)	50	10-120
2.6	*Slow Opening Speed Hz	Slow opening speed (Hz)	20	10-120
2.7	*Slow Open Range percentage	Percentage of opening at which the movement will start at slow speed (absent with mechanical limit switch)	15	0-50
2.8	*Closing Speed	Closing speed (Hz)	40	10-120
2.9	*Slow Closing Speed	Slow closing speed (Hz)	20	10-120
2.10	*Slow Closing Range	Percentage of closure in which the movement will start at slow speed (absent with mechanical limit switch)	15	0-50
2.11	*Acceleration	Allows you to change the acceleration ramp.	80	10-240
2.12	*Deceleration	Allows you to change the deceleration ramp.	80	10-240
2.13	Limit switch type	Allows you to set the type of limit switch	Kostal	/
2.14	*Safety Time	Maximum continuous motor usage time (seconds). 0 = disabled	10	0-60
2.15	*Motor Boost	Increased torque to the motor when at speeds below 50/60hz. Increase the starting point	15	0-30
2.16	Flashing Mode	Allows you to choose the flashing mode between WAVE, PULSE or FIXED	/	/
2.17	Output Mode 11-14	Allows you to set the dry contacts of pins 11-12-13-14 to close	/	/

2.18	Photocell Mode	Allows you to enable or disable the reading of PHOTOCELL input	/	/
2.19	Photocell Exclusion	Aperture percentage below which PHOTOCELL input should be excluded	5	1-75
2.20	Antiblock Exclusion	Opening percentage beyond which ANTIBLOCK input can be excluded (100 total exclusion)	100	50-100
2.21	Start button mode	Behavior when pressing the open button. Aperture or Step-by-Step	/	/
2.22	Stop button	Enabling the stop button. Enabled or Disabled	/	/
2.23	Opening Mode	Choice of FULL OPENING – DEAD MAN – SLOW OPENING	/	/
2.24	Closing Mode	Choice of FULL FOLD – MAN PRESENT – SOFT CLOSE	/	/
2.25	Extra Limit switch	Allows you to enable the double opening limit switch on the CHILL and COLD1 models	/	/
2.26	UPS action ON	Behavior in the event of UPS intervention. No Action or Opening	/	/
2.27	UPS action OFF	Behavior in case of UPS power recovery. No Action or Closure	/	/
2.28	*UPS Speed	Speed of movement in case of UPS intervention	10	1-50
2.29	Manual Speed Mode	Movement speed when activating manual mode	20	10-50
2.30	Slow close from top	Slow start during closing. Enabled or Disabled	/	/
2.31	*Brake mode	Sets the brake operating mode for doors with AUTOMATIC counterweight. Arrives pre-set from the factory. "Normal neg." or "Inverted pos."	Normal neg.	/
2.32	Password lvl 1	Allows you to set a password for level 1	/	/
2.33	Password lvl 2	Allows you to set a password for level 2	2000	/

**CAUTION**

Any change to the DEFAULT parameters could impair the operation of the machine and/or cause danger or injury.
In the interests of safety, it is necessary to train and inform the personnel using the machinery about its operation and any dangers arising from its use.

n. Error codes

The following table contains a number of possible error codes and the suggested solution:

ERROR CODE	DESCRIPTION	RESOLUTION
Lack of AC	Lacks external AC power	Check the electrical connections upstream and after the disconnecter
Undervoltage	The input voltage and on the capacitors is too low	Check the power supply and cable cross-section. If the door is large, increase its cross-section
Limit switch cable	Error in the Positioning System	The cable is not connected or is not properly connected
		Calibration was not performed or was performed incorrectly
Engine stall	The motor is stalled (does not move despite the fact that voltage is applied)	Check that nothing is preventing the door from moving freely
		Increase the engine boost slightly (contact service for help)
		If the error occurs during slowed motion, increase the speed of slowed movement
Overheating	The internal temperature of the power plant is too high	If it happens immediately after starting an open/close cycle: the motor is burned out or connected incorrectly
		If it happens after prolonged use: Allow the unit to cool
Overcurrent	Current draw is too high	Check that nothing is preventing the door from moving freely
		Contact support
Safety time	The engine ran for more seconds than the one set in the "safe time" parameter (default 10s)	If the port is large and the default value is not sufficient, increase it in the LVL2 advanced menu
Calibration Error	Calibration error	Calibration has not yet been performed or has been performed incorrectly
General error	Internal error in the drive	Contact support

11. DEEPENING OF MODELS CHILL AND COLD1

a. FlexiRun® CHILL

The model FlexiRun® Chill differs from the standard model by:

- Curtain made of 3 layers: standard PVC + insulated sp.3,2mm + standard PVC (TOT sp.5mm), suitable for temperature-controlled and/or low-temperature environments.

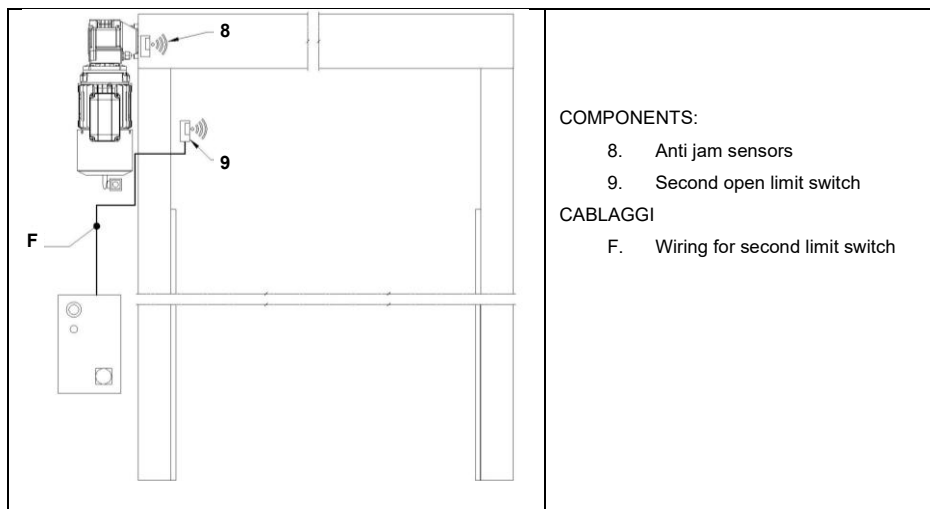
- Thermal resistance (heaters - optional) positioned inside the uprights, crossbar, and motor to prevent ice formation.
- Second open limit switch with retro reflective sensor to compensate for the change in diameter of the curtain once it is wound onto the roller. Requires enabling parameter 24 – “**Extra limit switch**” in the controller's LEVEL 2 settings.

b. FlexiRun® COLD1

The model FlexiRun® Cold1 differs from the standard model by:

- Curtain made of 3 layers: standard PVC + elastomer sp.16mm + standard PVC (TOT sp.18mm), suitable for environments with extreme temperature control.
- Thermal resistance (heaters - optional) positioned inside the uprights, crossbar, and motor to prevent ice formation.
- Second open limit switch with diffuse or refraction sensor to compensate for the change in diameter of the curtain once it is wound onto the roller. Requires enabling parameter 24 – “**Extra limit switch**” in the controller's LEVEL 2 settings.

c. Second open limit switch and anti jam position

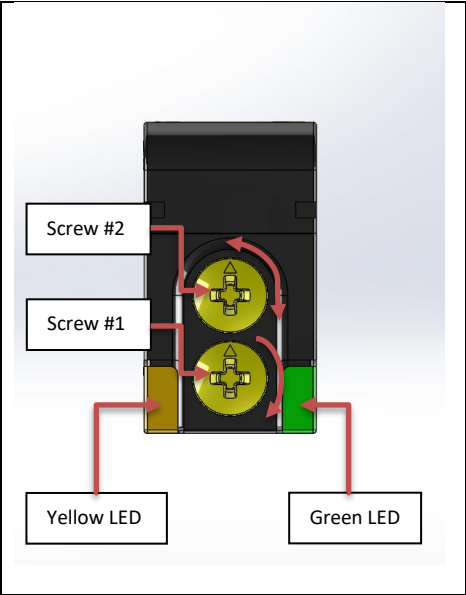


d. Additional accessories connection

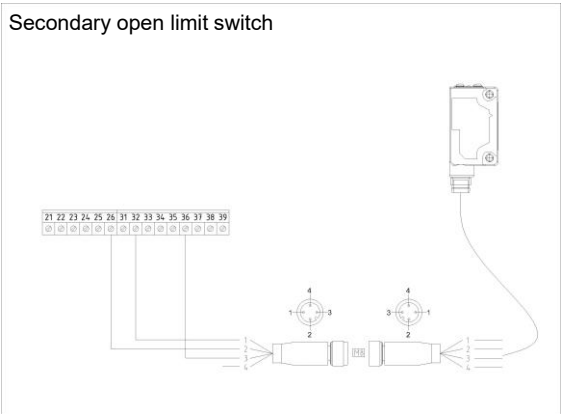
The secondary open limit switch helps to avoid an overtravel of the curtain during the opening movement given by the air that, during prolonged rest periods with the door closed, can inflate the curtain itself, leading to a bigger overall diameter.

The sensor must be installed on the pre-drilled holes, about 5cm above the self-healing cut.

The sensor is equipped with 2 screws and 2 LEDs:

Screw #1: NO/NC mode select. Should be ALWAYS set to full clockwise (NO)	
Screw #2: sensitivity. To be set so that YELLOW LED turns OFF only when the curtain is no more in front of the sensor	
Green LED: power on	
Yellow LED: object detected when ON	

Secondary open limit switch

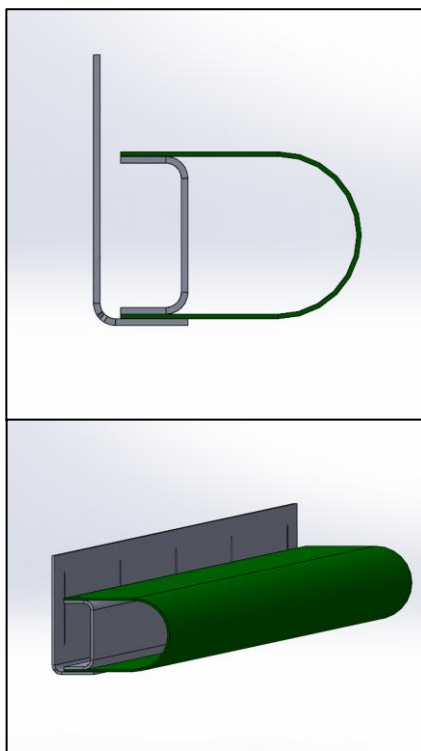
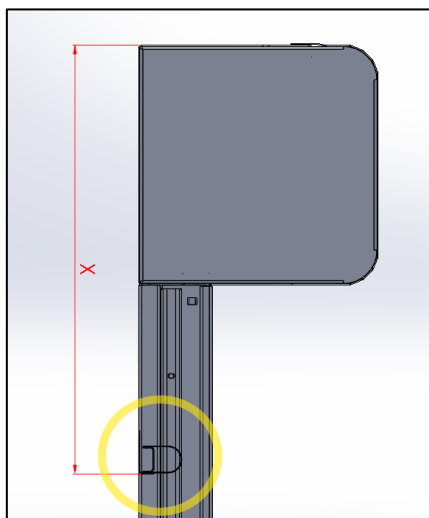


GREY CABLE		
PIN	COLOUR	FUNCTION
26	BLUE	COMMON
32	BROWN	+24VDC
36	BLACK	LIMIT OPEN(NC)

e. Installation of an anti-air passage system

The Chill and Cold 1 models, to prevent the ingress of cold or potentially humid air (and the relative formation of condensation or ice in the crossbar or on the tarpaulin) require the installation of the appropriate sealing accessory supplied with the door on the wall or panel. This consists of an "L" profile to be fixed to the wall with an integrated, depth-adjustable PVC "balloon". The height (X in the drawing below) at which it must be installed with respect to the upper part of the crossbar is:

- Chill
 - 280mm crossbar: X = 500mm
 - 330mm crossbar: X = 550mm
- Cold 1
 - 330mm crossbar: X = 550mm
 - 430mm crossbar: X = 650mm

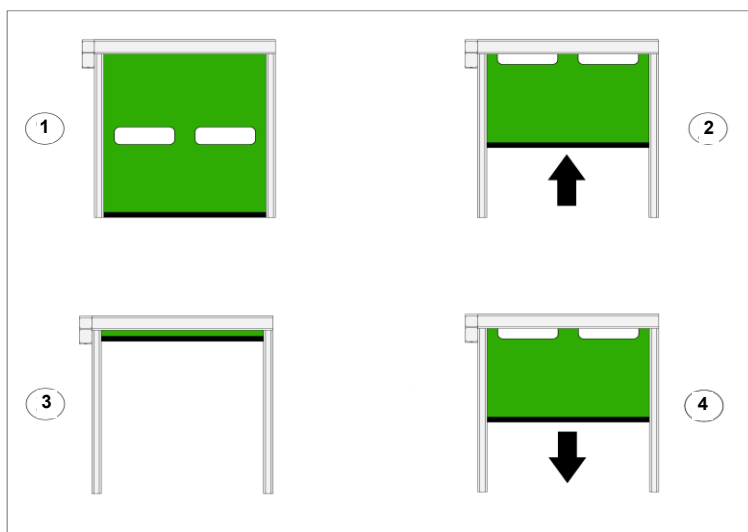


f. OPERATING MODE

	Pulse → pressing and release of a control (for example button, remote control etc.)
	Command maintained → Command that remains until the button is released

**CAUTION**

WHEN HANDLING THE DOOR FOR THE FIRST TIME, ENSURE THAT NO PERSONNEL ARE STANDING NEAR THE RAPID DOOR.

STANDARD operating cycle**AUTOMATIC cycle****IMPORTANT NOTE**

To set the automatic cycle set the "start button" parameter to "open" and set a time other than 0 in the automatic closing settings.

With the automatic cycle the entire opening and closing cycle can be executed with one pulse

Step 1 → Door in closed position

<<< Pulse >>> [opening command]

Step 2 → The door starts the opening movement to the set height (open limit switch)

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

Step 4 → The door starts to lower until completely closed (closed limit switch)

SEMI-AUTOMATIC cycle

**IMPORTANT
NOTE**

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

With the semi-automatic cycle, it is possible to run part of the cycle with each pulse executed.

Step 1 → Door in closed position <<< Pulse >>> [opening command]

Step 2 → The door starts the opening movement to the set height (open limit switch)

Step 3 → The door remains open until a new pulse is executed <<< Pulse >>> [closing command]>>>

Step 4 → The door starts the lowering movement until completely closed (close limit switch)

MANUAL / DEAD MAN cycle**IMPORTANT
NOTE**

To set the manual cycle set the parameters "Opening mode" and "Closing mode" to "step-by-step" and set a time equal to 0 in the automatic closing settings. Correctly connect the buttons to inputs 22 and 23.

The "dead man" cycle can be executed with 2 specific controls (1 - open; 2 - close) and is performed by a continual pressing (held) on one of the controls for the entire opening or closing phase.

Step 1 → Door in closed position <<< Hold opening control >>> [the door stops upon release]

Step 2 → The door starts the opening movement, which continues as long as the opening control remains pressed or until it arrives in maximum open position (open limit switch)

Step 3 → The door is in maximum open position and remains open until the close control is pressed
<<< Hold closure control >>> [the door stops upon release]

Step 4 → The door starts the closure movement that continues as long as the closure control remains or until it reaches maximum closure position (close limit switch)

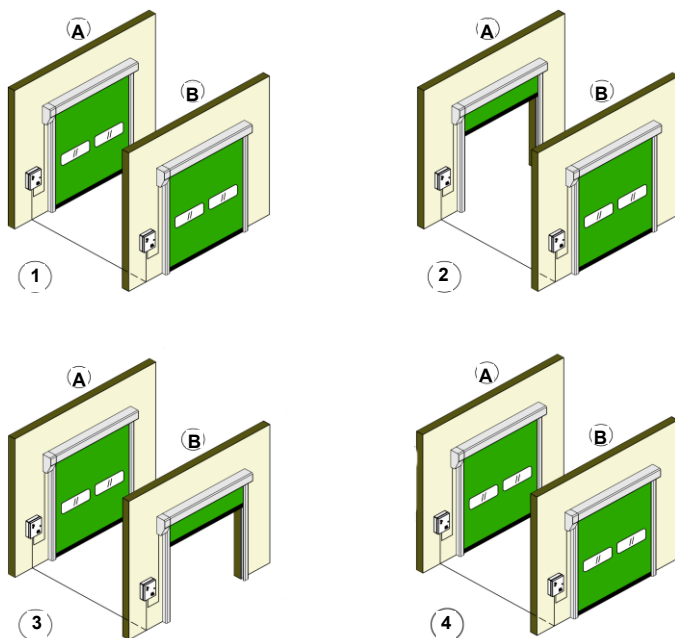
**CAUTION**

For "deal man's" operation the controls have to be installed near the door since the safeties are deactivated.

The operator must always have the door in sight during its movement so as to be able to control the passage zone and be able to stop the door ascent/descent immediately in a hazardous situation. Very often this is not necessary, for example, for the passage of pedestrians, open the door to maximum height.

Operating cycle with INTERLOCK (Bush)

The interlock system is mainly used to separate two environments that have different temperatures or pressures and the two doors installed have to open in alternation to ensure the conditions of the two environments.

**Interlock 1 (automatic operation cycle)**

Step 1 → Door A and door B in closed position <<< Pulse on door A >>>

Step 2 → Door A runs an automatic cycle <<< Enable to open door B >>>

Step 3 → Door B runs a semiautomatic cycle returning to step 1

Interlock 2 (semi-automatic operation cycle)

Step 1 → Door A and door B in closed position <<< Pulse on door A >>>

Step 2 → Door A runs a semiautomatic cycle <<< Enable to open door B >>>

<<< Pulse on door B >>>

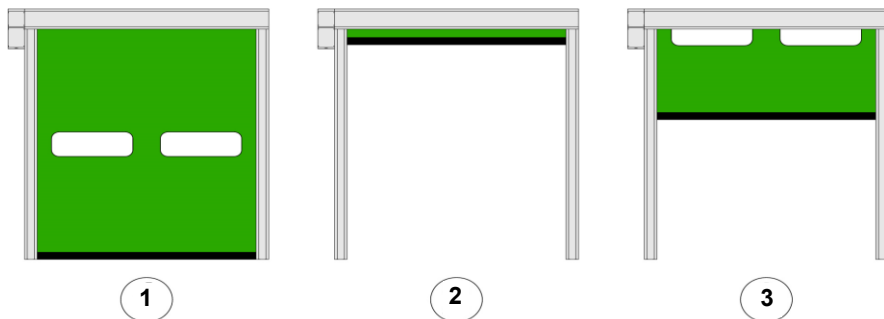
Step 3 → Door B runs a semiautomatic cycle

Step 4 → Door A and door B return to closed position

Cycle with REDUCED or PARTIAL OPENING

Sometimes it is not necessary to open the door to maximum height, for example for transit of pedestrians; and for this it is possible to set a partial opening of the door.

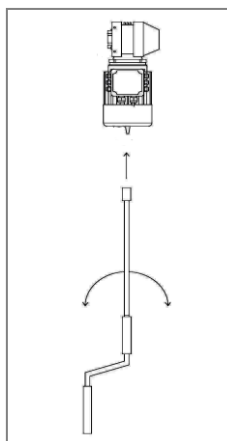
An additional control can be installed (for example a button, a microswitch with cord, etc) to allow opening of the curtain up to a reduced, adjustable height.



Consequently, the door will have 3 positioning steps available:

- 1 Door closed;
- 2 Total opening (open limit switch);
- 3 Reduced opening (positions adjustable from electronic board).

In the case of total opening and reduced opening the driving controls are to be separate and the door will function with the same operating mode set (automatic cycle, semiautomatic cycle).

12. MANUAL MOVEMENT**Manual drive**

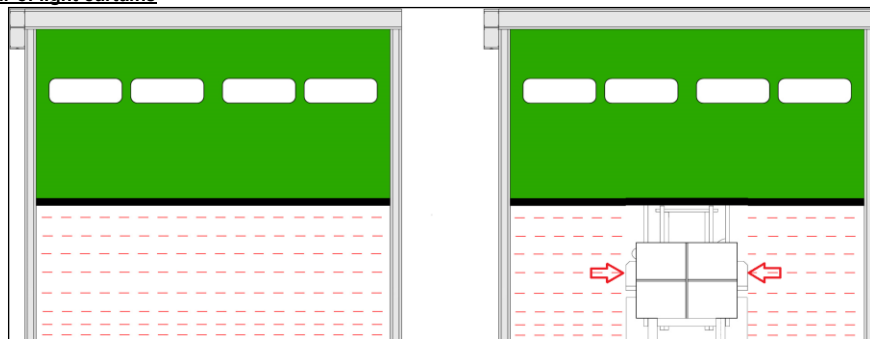
To activate the curtain when there is no electric power supply or a failure:

- Disconnect the power supply line through the main switch.
- Insert the rod in the relevant insert in the lower side of the motor, thus activating the safety microcontact that impedes the door electrical control.
- Turn the crank to reach the required position of the curtain.

13. SAFETIES

The safety functions of the machinery ensure a Performance Level “c” in Category 2, according to EN ISO 13849-1:2015.

Pair of light curtains

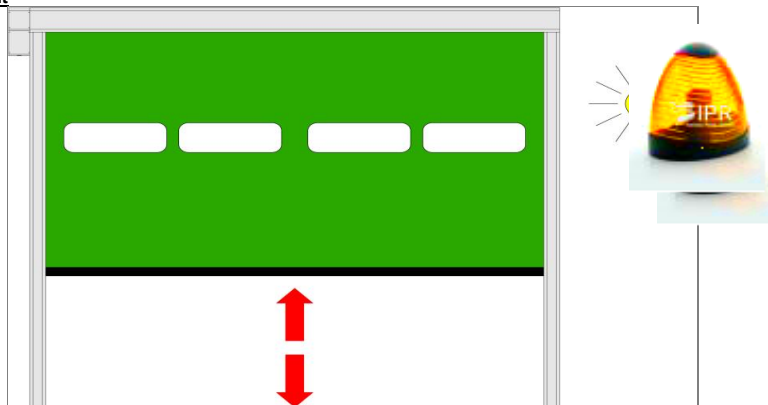


IMPORTANT NOTE



All the doors, unless otherwise requested, operate with “automatic cycle” or “semiautomatic cycle” and are equipped with a crossed photoelectric safety barrier or pair of photocells.
If the door has a clear width over 10 m it will have a “dead man’s” system.

Flashing light



The door is equipped with a flashing light (or several optional flashing lights) that signal the opening and the closing of the door with an intermittent light signal, visually warning the movement of the curtain.

14. NOISE

The acoustic intensity level of the door is <70 dB(A).

15. MAINTENANCE and PERIODICAL CHECKS (USER / QUALIFIED TECHNICIAN)

The personnel involved in the use of the machinery have to be provided with the appropriate personal protection devices (PPD) for the activities performed and for the working environment where the machinery is installed, in compliance with the standards in force.

Safety precautions for the qualified technician before starting routine maintenance

1. Know how the door functions and understand the operating processes.
Know how to stop the door.
2. The emergency **Stop** button is located on the electric panel.
3. Understand the safety labels and observe them.
4. Wear the relevant personal protection devices to carry out the job (where required).
5. Make sure that none of the garments worn could become tangled in the machine.
6. When working on or around the door, do not wear loose garments, jewellery, long or loose hair, ties, scarves, or items that could become entangled in moving parts.
7. Know where the internal first-aid centre is located.
8. Before opening the electric panel make sure that the power supply is disconnected.

Description	Procedure	Frequency
Use and Maintenance manual available	-	-
Safety labels applied	-	-
EC marking present with door serial number	-	-
Visually check good condition of door main components (motor group, cross member, uprights, curtain, electric panel)	Check that the main components are not damaged or worn.	6 months
Clean plant generally	Check that there are no obstacles, or if installed externally, there is no vegetation within the range of the automation and any sliding guides of the curtain / counterweight compartment	6 months
Clean components installed (photocells, flashing light, radar, etc.)	Use a moist cloth to externally clean the components. Do not use solvents or other chemical products (only water).	6 months
Check functioning of EMERGENCY STOP button	Press START to start the opening and closing cycle. In any moment of the cycle press the EMERGENCY STOP mushroom and check that the curtain stops immediately	6 months
Check motor and motor brake	Rotating the shaft by hand, check the motor has no impediments, that there is no accumulation of humidity or water. Check wear of the brake lining and the distance from the brake plate.	6 months
Check functioning of safety components [photocells, photocell barriers, sensitive frame (if installed)]	Press START to start the opening and closing cycle. During the closure, pass in front of the photocells or the photocell barrier, if installed, with an object or knock the sensitive frame and check the reverse action and stoppage of the curtain	6 months
Junction and movement points	Lubricate the junction and movement points of the automation that are accessible to the end user (guides, and chain returns, etc.). Do not access internal parts protected by guards.	6 months
Fixing	Check that the cross member and the uprights are well secured to the supporting structure and that there is no irregular movement.	6 months



CAUTION

Checks and operations that differ from those indicated above are to be carried out by qualified technicians or by the manufacturer.

Lack of maintenance can cause insecure functioning!

IMPORTANT NOTE

For all the maintenance operations and/or checks to be carried out, see the details in the **PARAGRAPH: VISUAL CHECKS AND TESTS**

16. POSSIBLE PROBLEMS AND SOLUTIONS

PROBLEM	SOLUTION
The lights of the control panel do not switch on	Check power supply
	Check fuses
	Check the "EMERGENCY" mushroom
The door does not open and does not close	Check the correct functioning of the electric board
	Check the correct connection on the clamping block
	Check the EMERGENCY STOP button
The door opens but does not close	Check the functioning of photostatic barriers
	Check for any obstacles when lowering the curtain
The photostatic barriers do not function	Check the correct alignment between TX and RX
	Check the correct power supply of the TX and del RX
	Check the cleanliness of the headlight assemblies
The sensitive panel does not function (if present)	Check the correct connection between receiver and transmitter
	Check that the battery charge
	Check that there is no interference on the radio waves
	Check the correct connection of the clamps (7)
The door does not close in automatic mode	Check the functioning of the safeties
	Check the correct setting of the dwell time
	Check the cleanliness of the inlet
The door has difficulty moving in the return cut	Check hinge wear
	Check the motor-brake connection and subsequent release
Sheet is activated but the door does not move	Check the correct connection of the motor
	Check the correct connection of the motor-brake
The door mantle slowly descends	Check the sheet settings
	Check the correct closing speed setting
	Check the correct connection of the limit switch
Door does not stop at limit switch opens and/or closes	Check the correct operation of the limit switch
	Check the correct adjustment of the limit switch
	Check that there are no sources that may cause interference between RX and TX
The door closes and the photostatic barriers do not intervene	Ensure that the barrier connection cables are not positioned close to high-voltage cables
	Check their correct functioning and connection
	Check the functioning of the opening devices
The door opens and closes arbitrarily	Check sensitive rib operation (if present)
	Check for the presence or absence of signals that might cause interference
	Check the correct connection
The flashing or stoplight does not work	Check internal bulbs
	Check the correct connection of the receiver board
The door radio control does not work	Verify correct programming
	Check the receiver board
	Check the battery of the radio control

17. DISMANTLING AND SCRAPPING

Directive 2002/96/CE of the European Parliament, named also "Directive RAEE", imposes an obligation for manufacturers, distributors, retailers, and importers of electrical and electronic equipment with offices in the EU to integrate the instructions for the use of this equipment with information regarding the dismantling, re-use, recycling and/or other treatment.

As the most important rule, the directive RAEE requires that the electrical and electronic equipment is disposed of at the end of the working life in an ecologically responsible manner, to permit reuse or recycling of those parts and materials that have been identified for this purpose.

It is obligatory that scrapped electrical and electronic equipment (RAEE) is not discarded with urban non-differentiated rubbish but is recycled with separate collection.

Separate collection is the preliminary condition to ensure the treatment and recycling specified by RAEE.

In conformity with the directive, RAEE environmentally friendly collection, treatment, recovery, and disposal by users of products containing electrical and electronic equipment issued on the market after 13/08/2005, is to be in conformity with the national measures of each member State of the EU that actuates the RAEE directive.

For dismantling of the door, it is necessary to separate the various materials and dispose of them in the most appropriate manner. In particular:

- Collect the lubricant of the reducer in appropriate containers and take them to the specific collection centres. It is strongly recommended not to discharge the lubricant into sewers or on the land to avoid environmental contamination;
- Separate all plastic materials: curtain in PVC, sliding tracks, seals, flashing lights, limit switch device casing, plastic gears, and take them to the collection centres;
- Separate all ferrous items (in particular metal plates and winder shaft) and have them disposed of by the authorised companies.



Do not discard in the environment and do not leave within the reach of children the scrapped parts of the high-speed door, since this causes a serious danger for the environment and for persons.

18. WARRANTY

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

The warranty is annulled in the following cases:

- The door is not used for the purpose for which it has been designed;
- The modifications made to the door have not been authorised by the manufacturer;
- Unauthorised interventions or operations carried out by unqualified technicians;
- Installation of components incompatible with the correct functioning of the door;
- Use of spare parts that are not originals.
- Maintenance and/or periodical checks not carried out or not certified in the Maintenance Log-book.

19. TECHNICAL ASSISTANCE

Notification of malfunctioning, failures or other problems are to be by written communication to the manufacturer.

IPR Srl

Italiana Porte Rapide

Via Statale Asti - Alba, 6/B

12040 Govone (CN) – Italy

Tel.: +39 0173 212052 – info@ipritalia.com

20. FAC-SIMILE OF EC DECLARATION OF CONFORMITY



IPR 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

GOVONE 05/10/2024

MATIC SRL

Oggetto: **Declaration of Conformity**DECLARATION OF CONFORMITY

Order Reference CDD 3332 - IPR ORD 93 - SARONNO

MATIC SRL - 017408 - CDD 3332 - IPR ORD 93 - SARONNO

Manufacturer: IPR S.r.l.

* Regio roll up door FLEXIRUN

* Serial **Number**: 2892-41-24 FYear of **construction**: 2024**Customer:** MATIC SRL**Address** body: Istituto Giordano Spa - n.0407.

Mr. Emanuele Caffaro, Legal **Representative** on behalf of the **manufacturer**, declares that the machine **conforms** **complies** with the **essential requirements** of Directive 2006/42/CE and Directive 2014/30/EU.

Furthermore, the **object** of the **above declaration** **conforms** with the **current** Union **harmonization** **regulation**:

EN ISO **12158:2015** / ISO 12158-1: **2015** / 12241:2003 A2:2015This **declaration** of **conformity** **is drawn up** under the **manufacturer's responsibility**.**Responsible** to compile the technical file: Mr. Emanuele Caffaro**Responsible** to draw up the **declaration of conformity**: Mr. Emanuele CaffaroEmanuele Caffaro **IPR S.r.l.** Legal **Representative****IPR S.r.l.**

Emanuele Caffaro

21. FAC-SIMILE OF DECLARATION OF PERFORMANCE (DoP)

Classe



IPR 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

DECLARATION OF PERFORMANCE (DoP)
Matr. 2593-38-24 F

S.M. SICUREZZA SRL - ORDINE 017099 - RIF.SM SICUREZZA SRL - CDO 2989 - RIF ORDINE 2

1. Identification code of the product type and of the specific product referred to this declaration
Rapid roll up door FLEXIRUN

2. Intended use for construction, compliant with

EN 13241-1:2003+A1:2016
Rapid roll up door

3. Manufacturer's name and address

IPR Srl
Via Statale Asti-Alba 6/B
12040 Govone - Fraz. Canove (CN)
Italy

4. Evaluation and audit system for the construction product performance consistency

3

5. The notified body

Istituto Giordano Spa - n.0407

6. Intended use

Safe access of goods and vehicles accompanied or driven by people to industrial, commercial or residential areas

7. Declared performance

Water resistance	NPD	
Release of hazardous substances	Compliant	EN 13241-1:2003+A2:2016
Wind resistance	Class 3	EN 13241-1:2003+A2:2016
Thermal resistance	NPD	
Air permeability	NPD	
Safe opening	Compliant	EN 13241-1:2003+A2:2016
Mechanical resistance and stability	Compliant	EN 13241-1:2003+A2:2016
Operating forces	Compliant	EN 13241-1:2003+A2:2016
Durability of water resistance, thermal resistance and air permeability	NPD	

Product's performances are compliant with the set of declared performances.

This declaration of responsibility is issued, according to Regulation (EU) No. 305/2011, under the manufacturer's responsibility.

IPR S.r.l.

GOVONE, 27/03/2024

Emanuele Cafagna **IPR S.r.l.'s Legal Representative**

Emanuele Cafagna

22. VISUAL CHECKS AND TESTS

(Photocopy this check list and attach it to the maintenance log-book at every operation on the high-speed door)

TECHNICAL DOCUMENTATION

OK

NOTE

Check presence of Use and Maintenance manual	☐	
Check presence of EC marking and serial number	☐	

CIRCUIT BREAKER, EMERGENCY CONTROL AND STOP

OK

NOTE

Suitability of emergency control devices	☐	
Suitability of control devices START BUTTON – RADAR – MAGNETIC COILS – PHOTOCELLS etc.	☐	
Suitability of circuit breakers	☐	

ELECTRIC PANELS

OK

NOTE

Identification and integrity of electric panel	☐	
Integrity of components installed in panel	☐	
Integrity and suitability of internal and external connections	☐	
Integrity and suitability of optical- acoustic devices	☐	

SAFETY DEVICES

OK

NOTE

Integrity and functioning of photocells	☐	
Integrity and functioning of wireless sensitive frame, if present	☐	
Integrity and functioning of photoelectric barrier	☐	

STRUCTURES AND CURTAINS

OK

NOTE

Integrity and suitability of anchorage screws	☐	
Integrity and suitability of junction and movement points, reducer, motor, chain junctions, etc.	☐	
Integrity and suitability of upright structures, cross member, etc.	☐	
Integrity and suitability of curtain, hinges, welds, reinforcing pipes etc.	☐	
Clean plastic materials (photocells, flashing light, etc.)	☐	

23. MAINTENANCE LOG-BOOK

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
1				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

.....

.....

.....

.....

.....

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
2				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

.....

.....

.....

.....

.....

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
3				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

.....

.....

.....

.....

.....

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
4				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

.....
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.....
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.....
.....

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
5				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

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.....

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
6				

Type of intervention
☐ Ordinary Maintenance (attach visual check and tests sheet)

☐ Repair

☐ Exceptional maintenance

☐ Other / Modifications*

*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company

Description of intervention performed:

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.....

7	N° cycles	Date	Company performing intervention	Stamp and signature of manager
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Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed: 				

8	N° cycles	Date	Company performing intervention	Stamp and signature of manager
Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed: 				

9	N° cycles	Date	Company performing intervention	Stamp and signature of manager
Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed: 				

10	N° cycles	Date	Company performing intervention	Stamp and signature of manager
----	-----------	------	---------------------------------	--------------------------------

Type of intervention				
☐ Ordinary Maintenance (attach visual check and tests sheet)			☐ Repair	
☐ Exceptional maintenance			☐ Other / Modifications*	
*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				
.....				
.....				
.....				
.....				
.....				
.....				

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
11				
Type of intervention				
☐ Ordinary Maintenance (attach visual check and tests sheet)			☐ Repair	
☐ Exceptional maintenance			☐ Other / Modifications*	
*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				
.....				
.....				
.....				
.....				
.....				
.....				

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
12				
Type of intervention				
☐ Ordinary Maintenance (attach visual check and tests sheet)			☐ Repair	
☐ Exceptional maintenance			☐ Other / Modifications*	
*In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				
.....				
.....				
.....				
.....				
.....				
.....				

13	N° cycles	Date	Company performing intervention	Stamp and signature of manager
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Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
14				
Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				

	N° cycles	Date	Company performing intervention	Stamp and signature of manager
15				
Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed:				

16	N° cycles	Date	Company performing intervention	Stamp and signature of manager
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Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed: 				

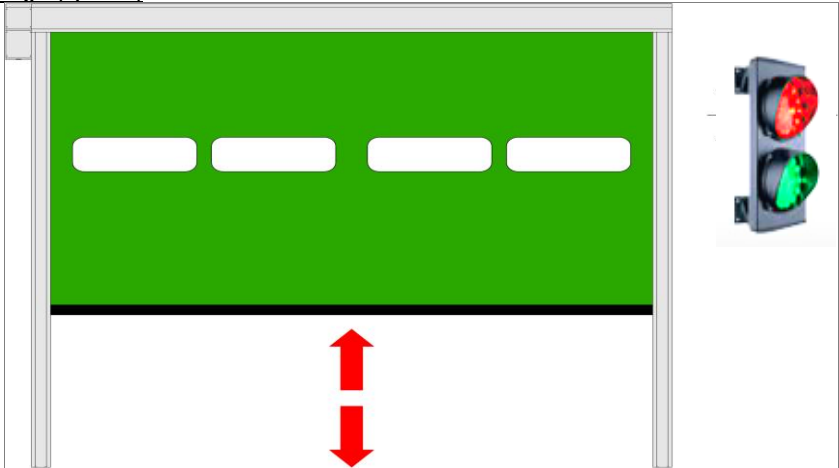
	N° cycles	Date	Company performing intervention	Stamp and signature of manager
17				
Type of intervention ☐ Ordinary Maintenance (attach visual check and tests sheet) ☐ Repair ☐ Exceptional maintenance ☐ Other / Modifications* *In the case of substantial modifications, a new Technical Folder is to be created after authorisation of the mother company				
Description of intervention performed: 				

TECHNICAL OR MAINTENANCE NOTES <i>Recurring problems on door</i>
Description of intervention or malfunction found.

[illegible]

24. ANNEX “A”: OPTIONAL ACCESSORIES

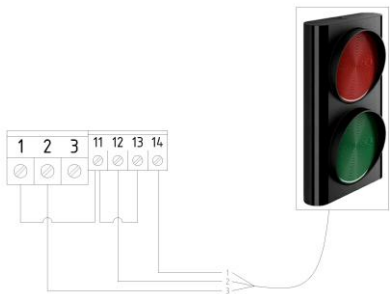
Trafficlight (optional)



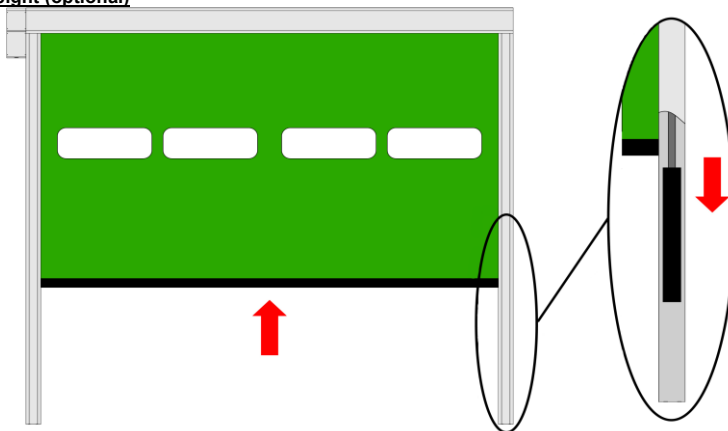
In zones where it is necessary to manage the stoplight the high-speed door it is possible to install one or more traffic lights, according to the requirements of the structure and the internal logistics. The operating modes can be customised in the board menu.

The schematics to connect a 24Vdc unit are as follows:

TRAFFIC LIGHT 24VDC



BLACK CABLE		
PIN	COLOUR	FUNCTION
1	-	+24VDC TO 11 AND 13
2	BLACK	COMMON
12	BROWN	RED LIGHT
14	GREY	GREEN LIGHT

Counterweight (optional)

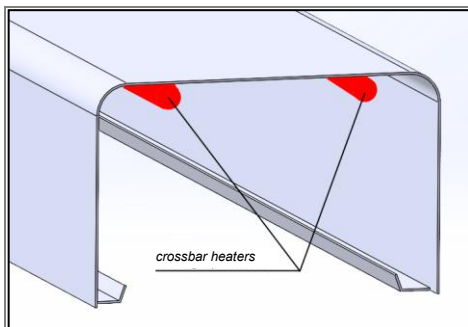
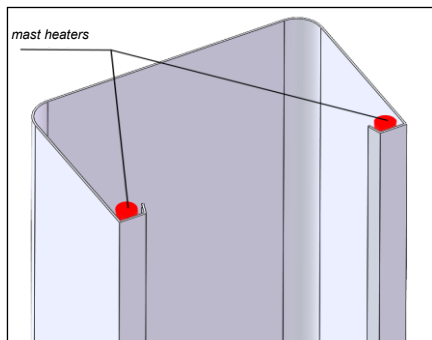
The counterweight system ensures partial opening of the door in an emergency situation or if there is a power cut. For the method of use, maintenance, and safety of use, see UNI EN 12604 and UNI EN 12605 – *Ref. Counterweight*

There are two modes:

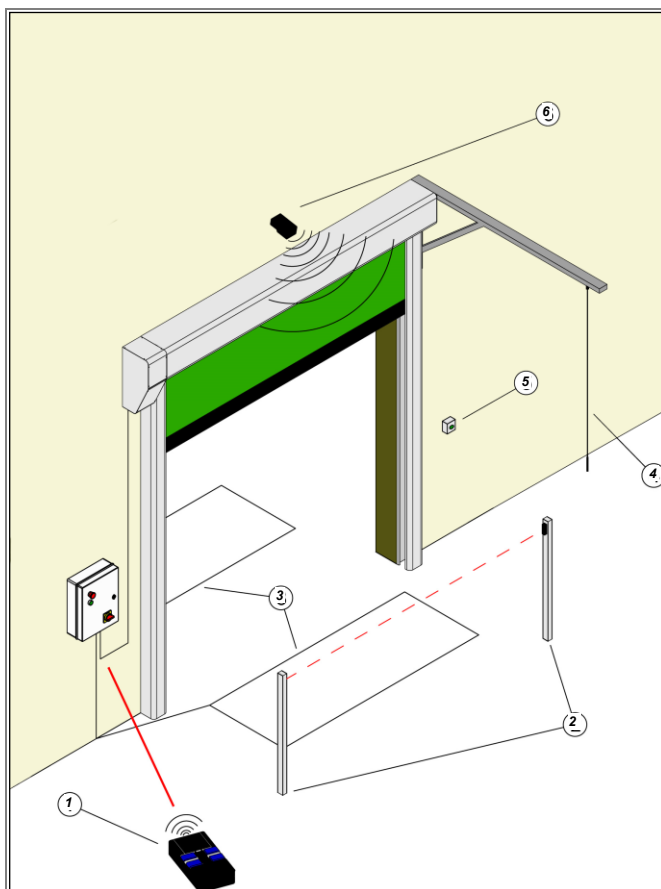
- Automatic (when the door is no longer powered it opens automatically);
- Intentional (when the door is no longer powered, and it is necessary to act manually to open the door).

Thermal resistances (optional)

Thermal resistances_(heaters) positioned inside the uprights, crossbar, and motor to prevent ice formation.

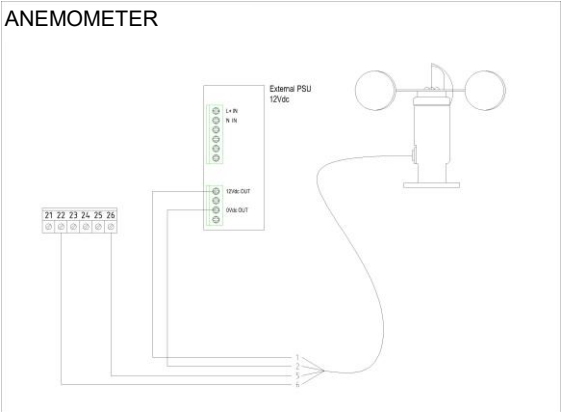


25. ANNEX "B": OPTIONAL OPENING CONTROLS



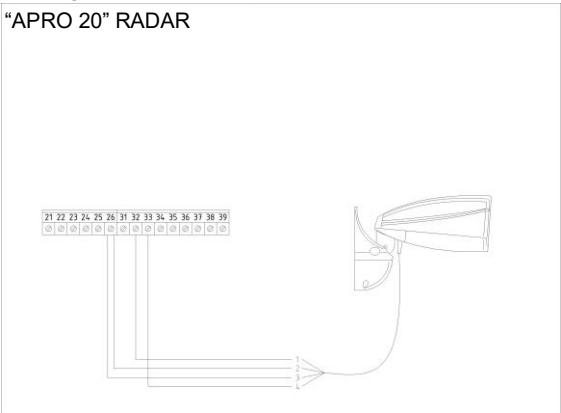
1. Opening with radio transmitter (remote control);
2. Opening with photocells;
3. Opening with magnetic coils;
4. Opening with cord microswitch;
5. Opening with button (n° 1 button included in the standard supply, as well as that on panel);
6. Opening with radar.

ANEMOMETER
ANEMOMETER



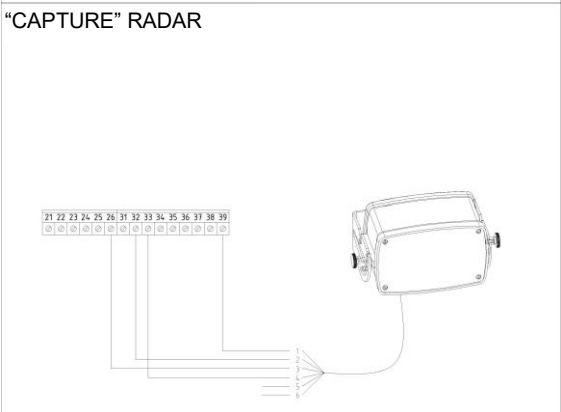
PIN	PIN ACCESSORY	FUNCTION
EXT	1	+12VDC
EXT	2	GND
22	6	OPEN(NO)
26	5	COMMON

RADARS
“APRO 20” RADAR



PIN	COLOUR	FUNCTION
26	BLACK, GREEN-	COMMON
32	RED	+24VDC
33	BROWN	IN_RADAR(NO)
-	BLUE	NOT CONNECTED

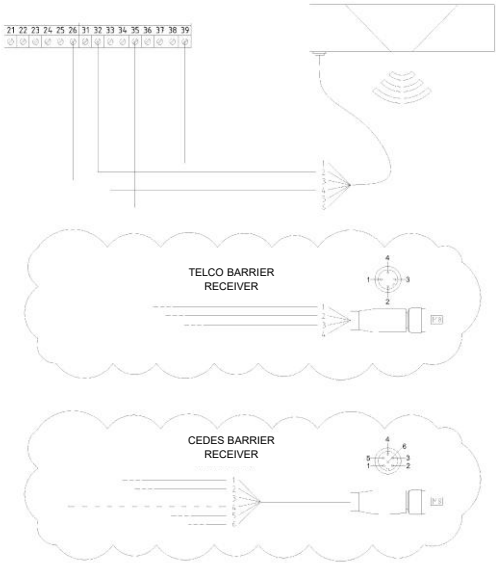
“CAPTURE” RADAR



PIN	COLOUR	FUNCTION
26	WHITE-	COMMON
32	BROWN	+24VDC
33	PINK	IN_RADAR(NO)
39	GREEN	COMMON
	YELLOW	NOT CONNECTED
	GREY	NOT CONNECTED

PIN	COLOUR	FUNCTION
-----	--------	----------

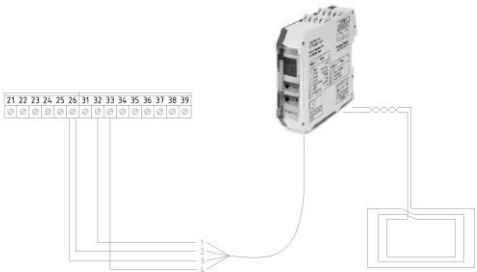
“PRIMETEC” SAFETY RADAR



26	WHITE-	COMMON
32	BROWN	+24Vdc
33	YELLOW	IN_RADAR(NO)
35	RED	IN_PHOTO(NC)
39	GREEN	COMMON
-	BLUE	SERIES WITH OTHER DEVICES (SEE DRAWINGS)

MAGNETIC SPIRE

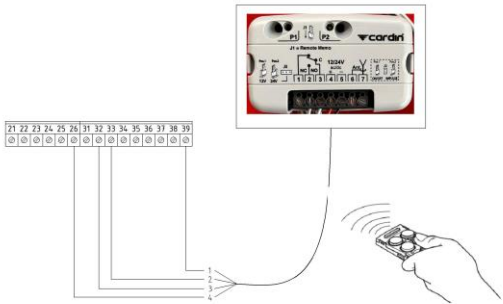
“BIRCHER” MAGNETIC SPIRE



PIN	PIN ACCESSORY	FUNCTION
26	A2,11	COMMON
32	A1	24VDC
33	14	IN_RADAR(NO)

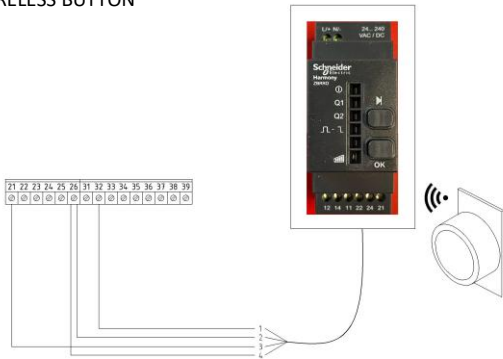
RADIO

RADIO CARDIN



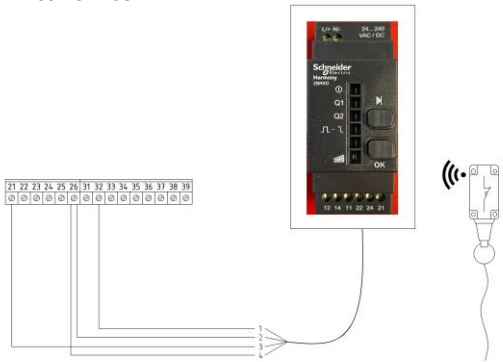
PIN	ACCESSORY PIN	FUNCTION
26	2	COMMON
32	4	+24VDC
33	3	IN_RADAR(NO)
39	5	COMMON

WIRELESS BUTTON



PIN	ACCESSORY PIN	FUNCTION
21	11	START(NO)
26	N-,14	COMMON
32	L+	+24VDC

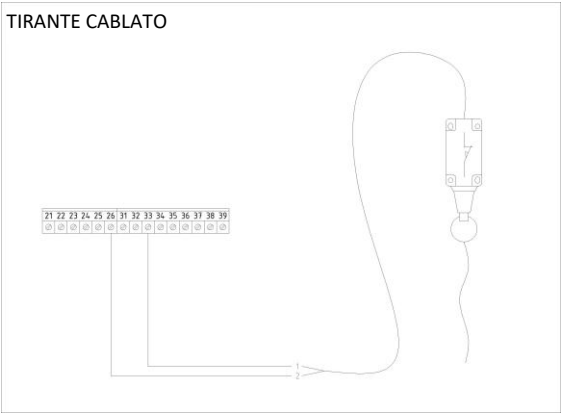
WIRELESS PULL CORD



PIN	ACCESSORY PIN	FUNCTION
21	11	START(NO)
26	N-,14	COMMON
32	L+	+24VDC

TIRANTE

TIRANTE CABLATO



PIN	COLOR	FUNCTION
26	-	COMMON
33	-	IN_RADAR (NO)