

# MAXZIP™

## INSTALLATION MANUAL

PerformMax Industrial Doors  
5 Crozerville Road, Aston, PA 19014  
+1 (484) 840-8500

[WWW.PERFORMAXGLOBAL.COM](http://WWW.PERFORMAXGLOBAL.COM)  
[INFO@PERFORMAXGLOBAL.COM](mailto:INFO@PERFORMAXGLOBAL.COM)

## **Manufacturer**

PerforMax Global  
5 Crozerville Road  
Aston, PA 19014  
Office: +1 (484) 840-8500

## **Door Details**

Date:  
Installing Dealer:  
Project:  
Door Model:  
Serial Number:  
Clear Opening Between Guides:  
Clear Opening Height:

## **General**

This Installation and Maintenance Manual is to help you install MaxZip Vinyl Door and ensure the door provides reliable and economical operation. DO NOT begin to install a MaxZip Vinyl Door unless you have read all the instructions in this manual. Please contact PerforMax Global Technical Support at +1 (484) 840-8500 at any time during the install.

## Symbols Used in this Document



### NOTICE

Highlights important information.



### CAUTION

Failure to follow instructions or avoid the described situation may result in damage to equipment.



### WARNING / DANGER

Failure to follow instructions or avoid the described situation may result in damage to equipment, serious injury and/or death to person(s).

## Safety and Power Isolation



An understanding of the system's functions and operation by trained and competent technicians is essential for safe installation, maintenance, troubleshooting and repair.



Incoming energy to the electric motor (door operator) should be isolated using accepted Lock-Out/Tag-Out procedures for electric isolation. Also isolate any equipment near the installation site if the equipment may be inadvertently operated into the door installation area.



Use proper lifting equipment and techniques. Properly secure all loads.

# SAFETY INFORMATION

**TO PREVENT INJURY TO YOURSELF OR ANYONE AROUND YOU, PLEASE READ SAFETY INFORMATION AND OCCASIONAL REVIEW THEM AS YOU ARE INSTALLING A PERFORMAX GLOBAL HIGH PERFORMANCE DOOR.**

- Inspect all components and call PerforMax Global if problems arise.
  - Be sure to anchor guides into secure walls. Only attaching to drywall or sheet rock with result in failure and/or injury.
  - If repairs are required to your high performance overhead door, please call your service provider and/or PerforMax Global.
  - Be sure to ask for assistance if lifting anything heavy.
  - Follow instructions carefully and check out PerforMax Global's YouTube videos for instructional videos.
  - If door is equipped with a torsion tube, use caution when adjusting the tension wheel.
  - Only use hardware that is supplied by PerforMax Global.
- 
- Test safety devices before approving proper operation.
  - If grinding or cutting, but sure to wear proper personal safety equipment.
  - Head plates are carrying a lot of weight. Do not attempt to loosen without supporting the curtain first.
  - Be sure safety devices are fully operational before the door goes into operating mode.
  - Do not let children play with the controls.
  - Be sure the guides are adjusted correctly or the door will not operate correctly.
  - Only licensed operators to move heavy machinery.

# SAFETY INFORMATION

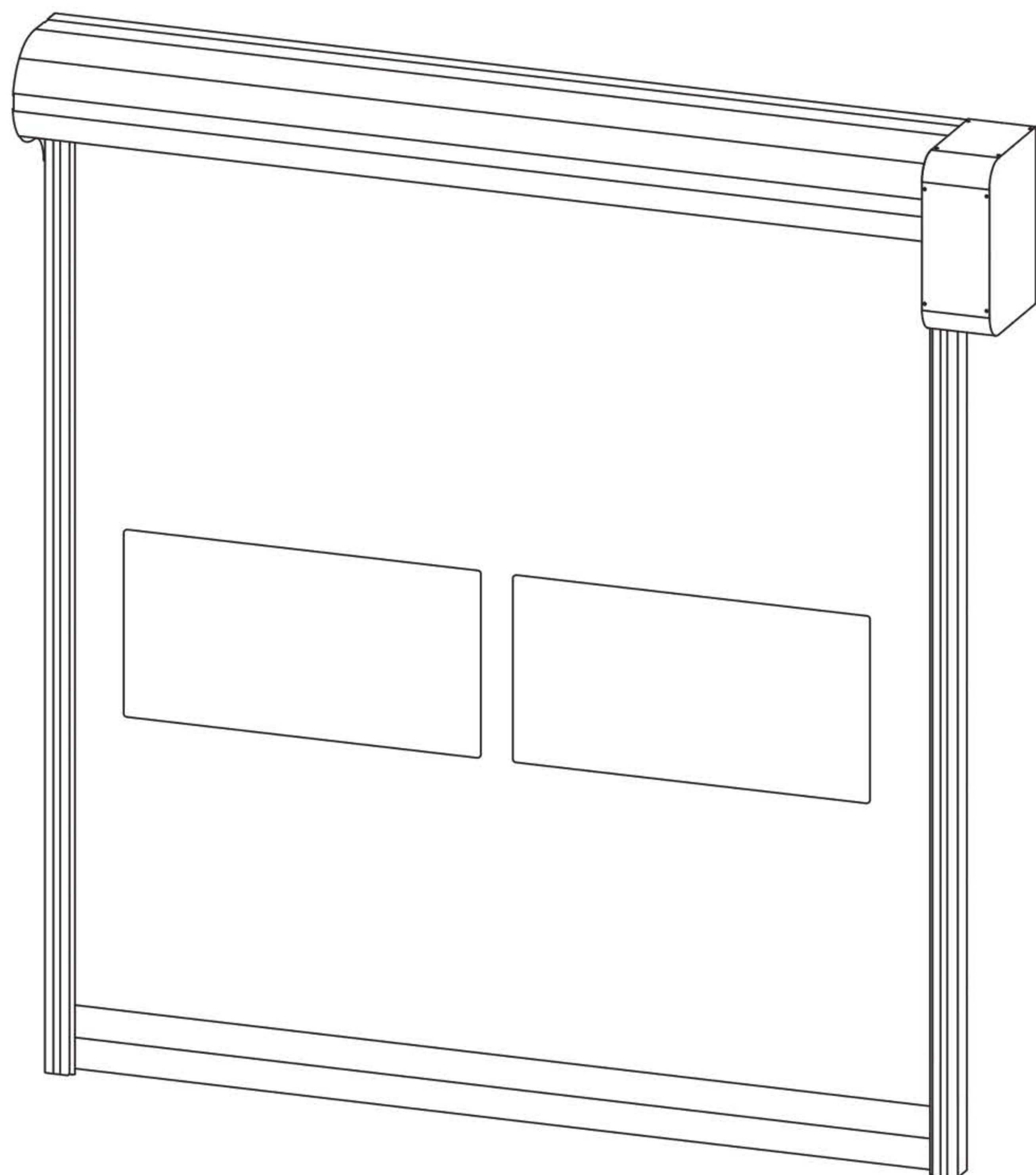
This manual is aimed exclusively for competent, professional installers and technicians. All operations of mechanical installation, electrical connections and adjustments must be made respecting the good workmanship and applying all the safety rule in force, even if their indications were not explicit in the text of the instructions.

Before starting the installation of the door read the instructions carefully. Incorrect installation can be dangerous. Before beginning the installation check the condition of the product. Before installing the door, Ensure that the floor, the walls or the ex-isting support structure have the necessary strength, capable of supporting the weight of the door, also considering the dynamic forces due to normal operation and the eventual impacts. If necessary make modification to the structures before the door installation. Verify that the structure is suitable to protect or isolate all the areas affected by the danger of crushing, trimming, trapping and general danger. Automation is equipped with the necessary safety devices to ensure compliance with product standards. These devices (photocells, safety edges, emergency stop, etc.) Must be connected according to current regulations and directives in force, good workmanship criteria, the installation environment, the operating logic of the system and forces developed by the door.

Display the signs required by law to identify danger areas. Each installation must clearly show the identification data of the door. Before connecting the power supply, check that the data on the label correspond to the electricity distribution network. A main power switch properly sized must be installed before the control board inlet. Check that the power line is protected by RCD and overcurrent protection. Connect the door to an efficient grounding system. The manufacturer of the door declines all responsibility if components which are incompatible with the safe and correct operation or when changes are made of any kind without the specific permission of the manufacturer. Only original spare parts shall be used for repairs or replacement of components during maintenance or service. The installer must supply all information relating to automation concerning manual and emergency operations and provide the user the Instructions for Use. After installation, packaging materials (plastic, cardboard, etc.) must not be allowed to litter the environment.

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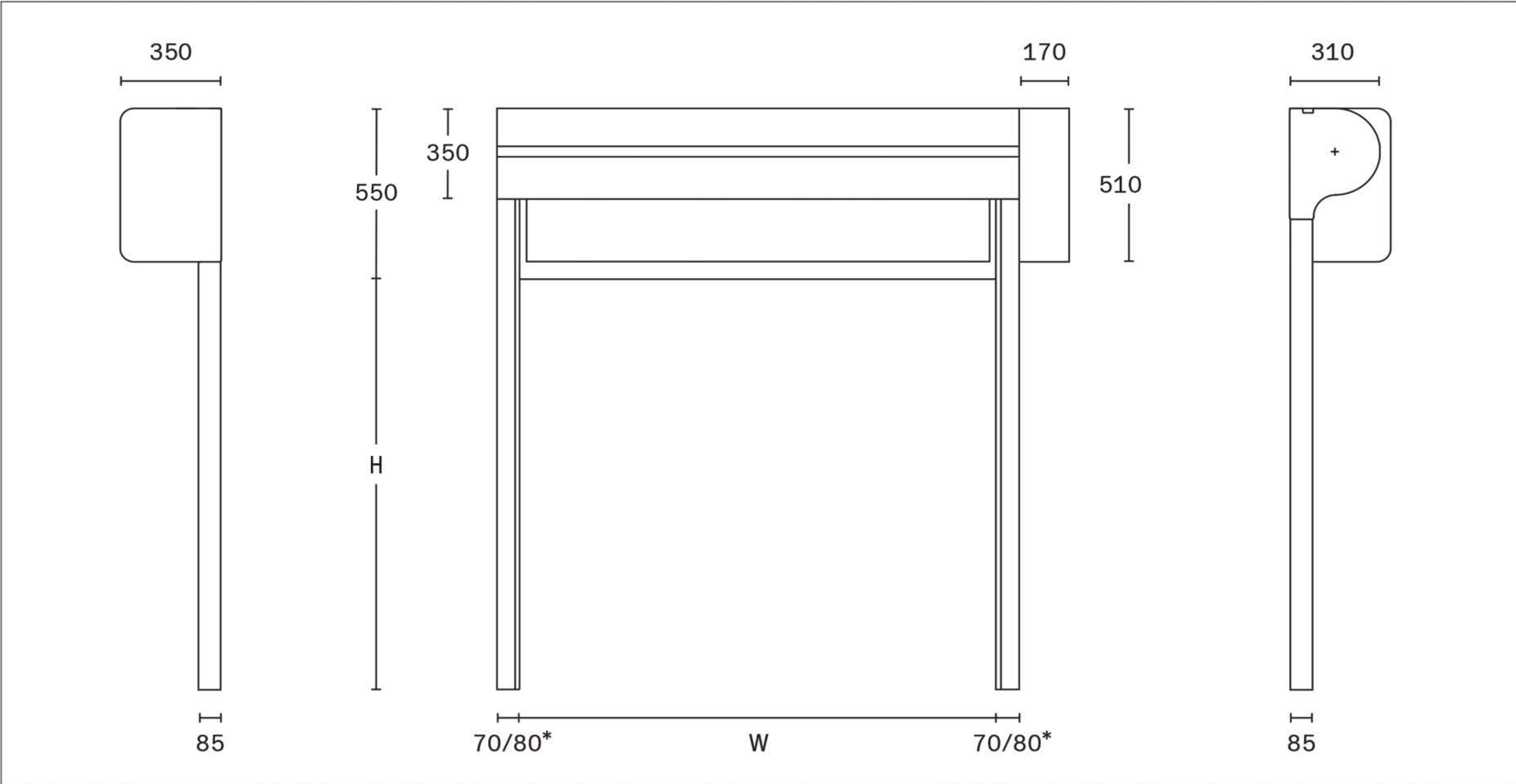
# INSTALLATION DRAWING AND TECHNICAL FEATURES



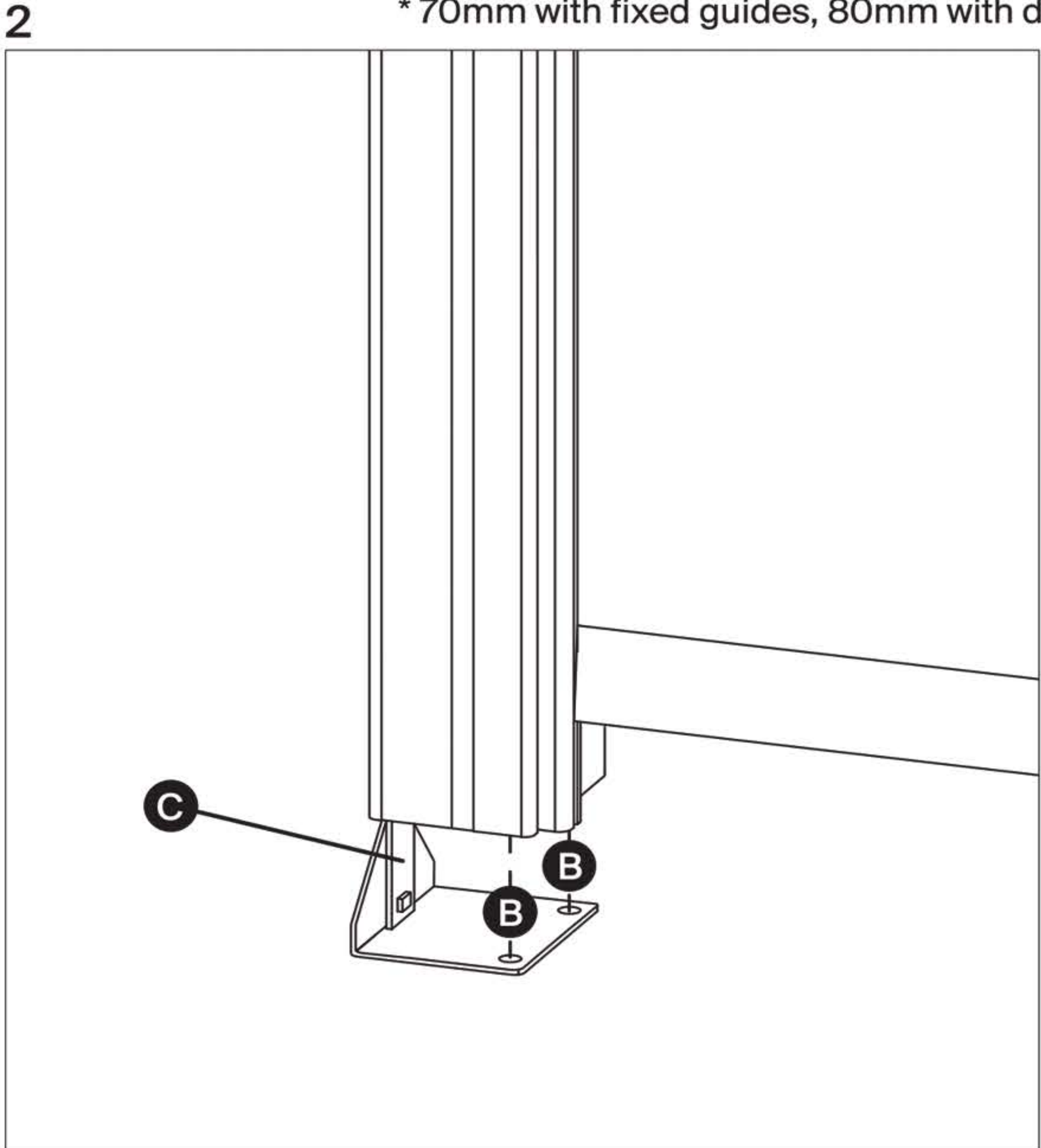
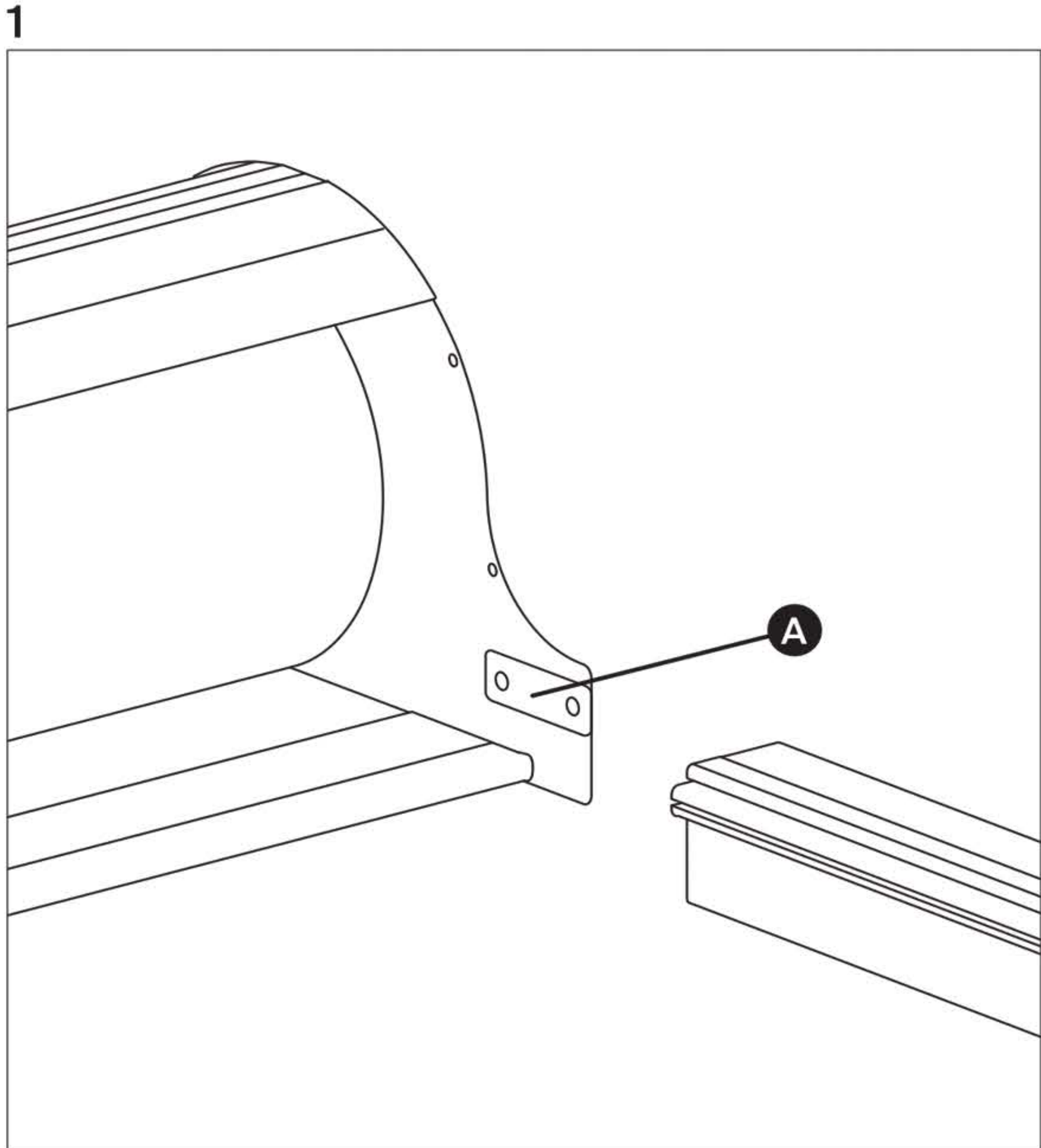
<b>Inverter automation</b>	<b>DE1 (EASY)</b>	<b>DB1</b>	<b>DB2</b>
Main supply	230 V AC single phase	230V AC single phase	208 – 460 V AC three phase
Frequency	50/60Hz	50/60Hz	50/60Hz
Current absorption main supply	10/16A	10/16A	10A
Motor power	0,75 ÷ 1,1 kW	0,75 ÷ 1,5 kW	0,75 – 1,5 kW
Control board protection degree	IP54	IP54	IP54
Motor protection degree	IP54	IP54	IP54

# MECHANICAL INSTALLATION

1. Fix the columns to the crosspiece through the brackets. A  
When the doors are larger than 14 m. fit before the posts to the wall, and then install the crosspiece.



\* 70mm with fixed guides, 80mm with dampening springs



2 Fix the bottom plates (when requested) to the floor through the  
hall B , the posts will be fixed by the bracket. C

## MECHANICAL INSTALLATION

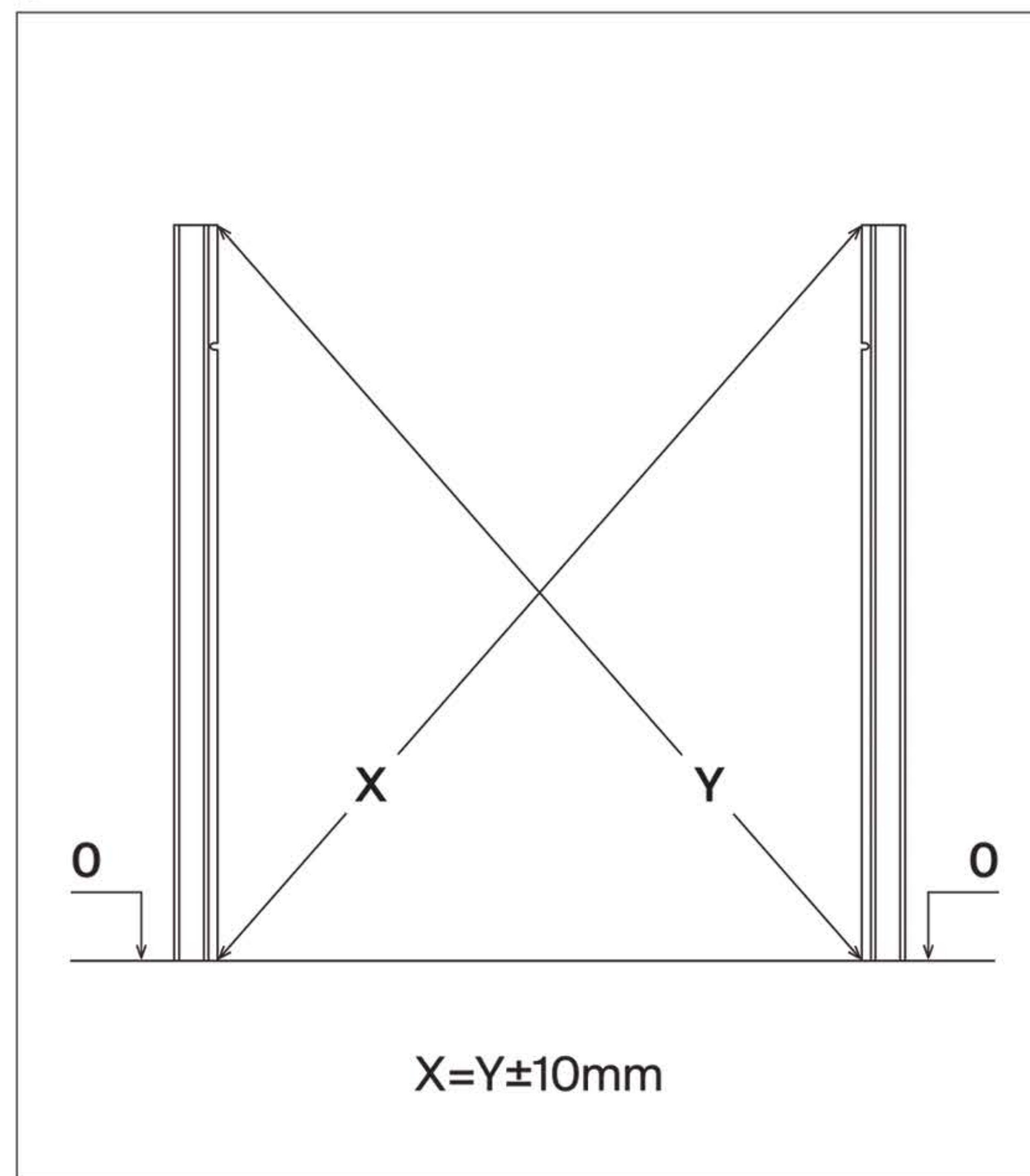
3 Take care the level between the posts and control the geometry (diagonal).

4 Complete the mounting by the supplied brackets and by any additional anchorages where necessary. Provide to have minimum of one plate each 1,5 m

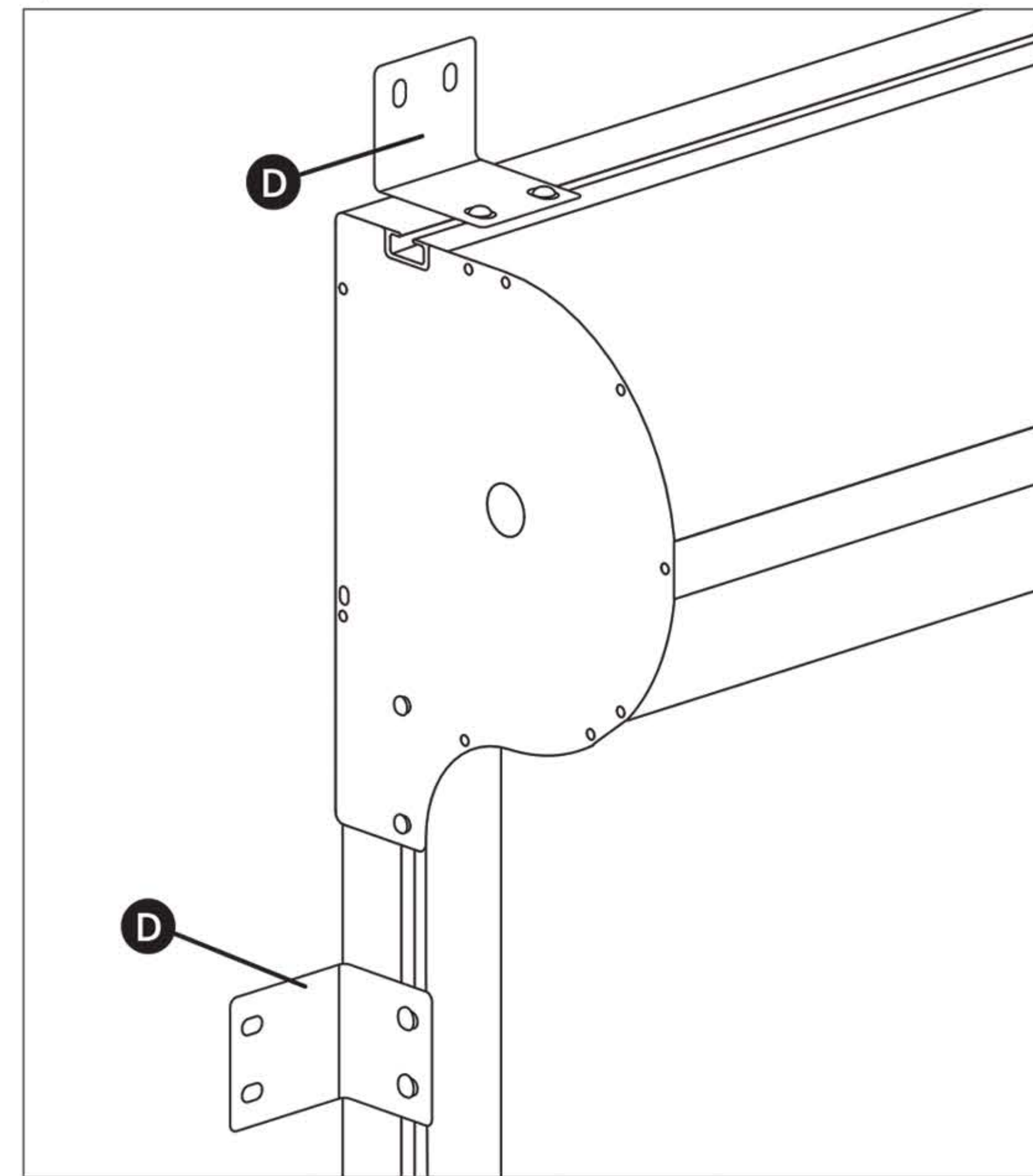
5 The brackets must be fixed by suitable anchors, due to the wall or structure consistency.

6 In the event of a front motor, check the transmission chain tension, eventually adjusting by the sliding bracket of the gearmotor.

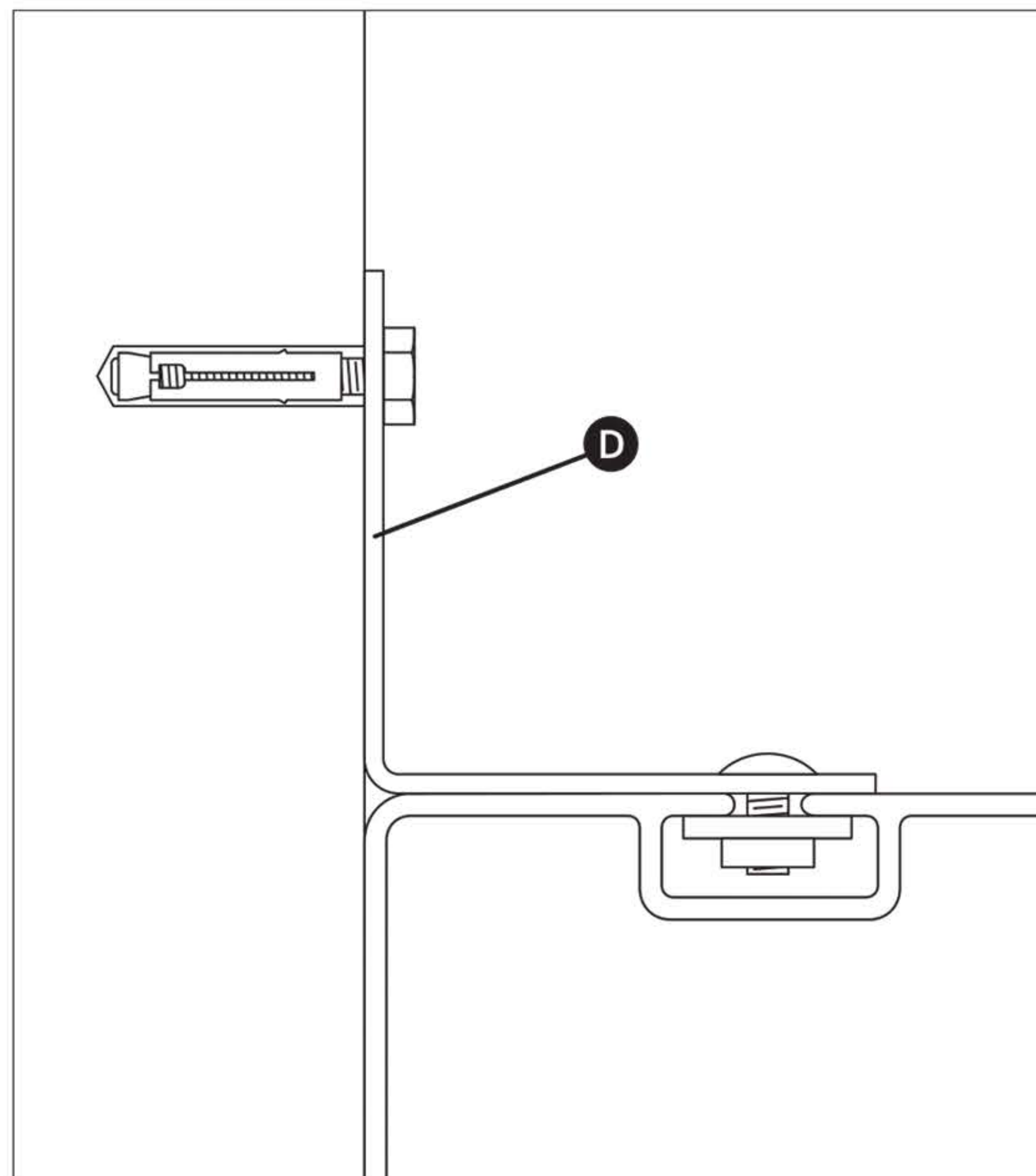
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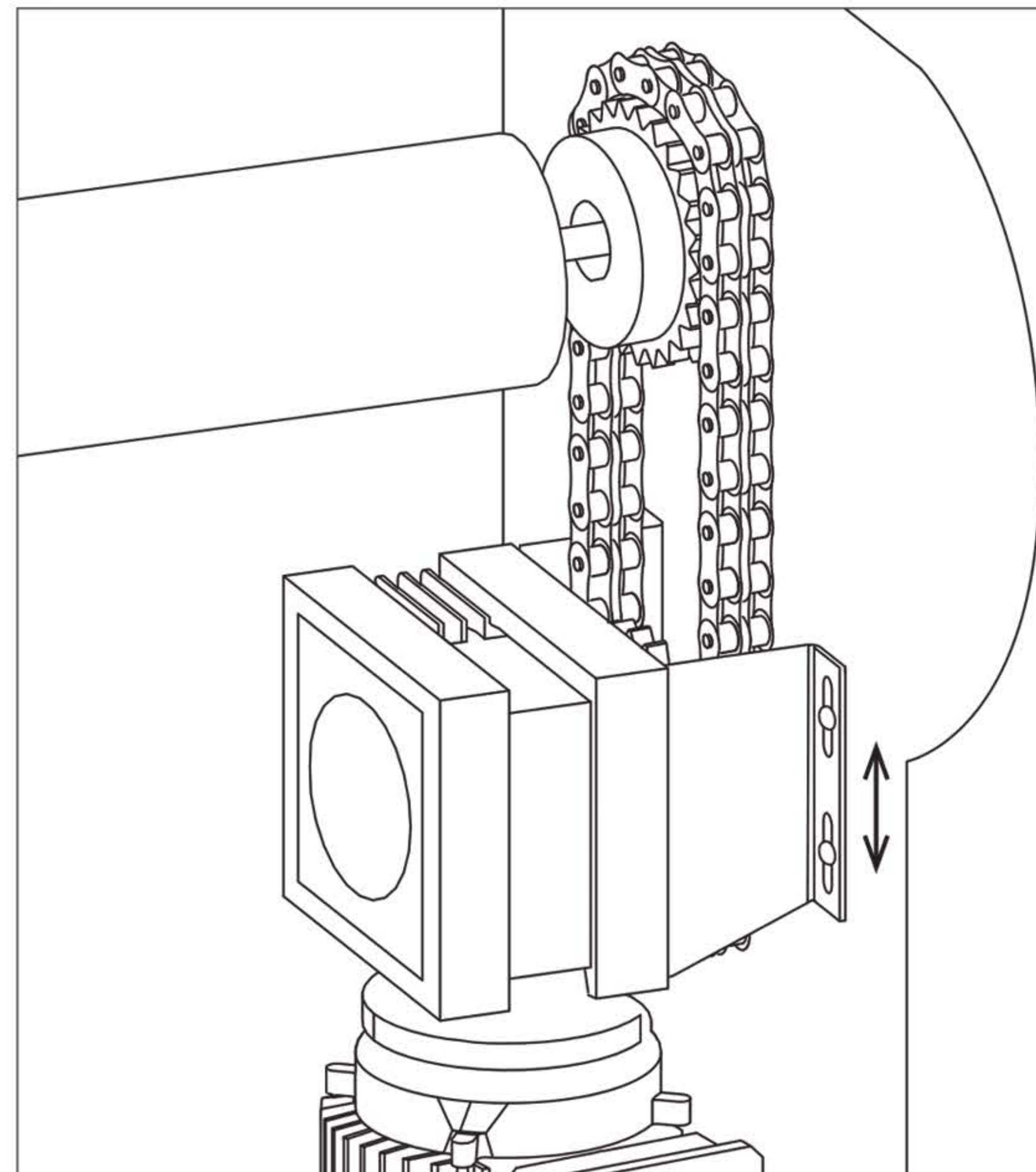
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5



6





## DE1 (EASY)

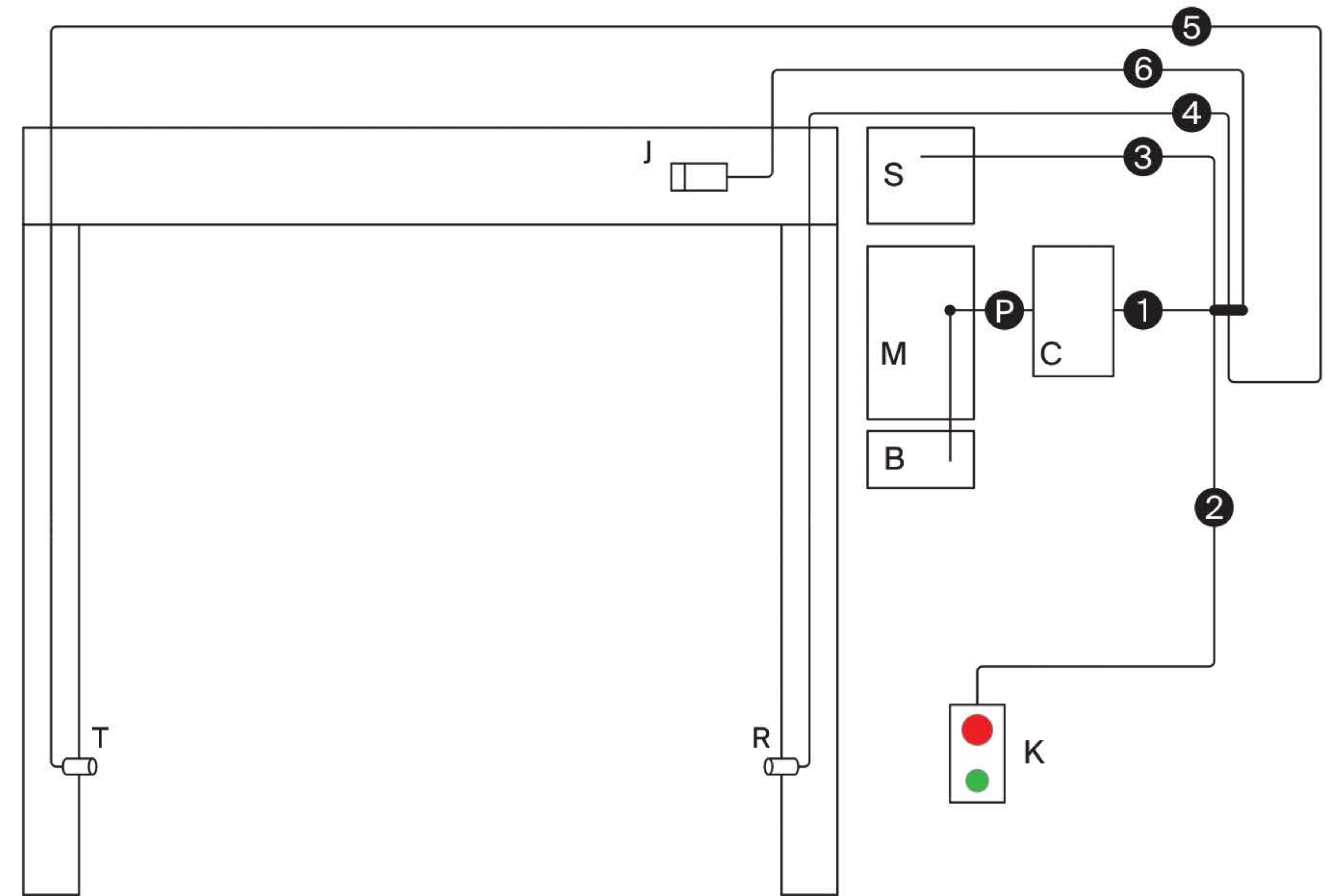
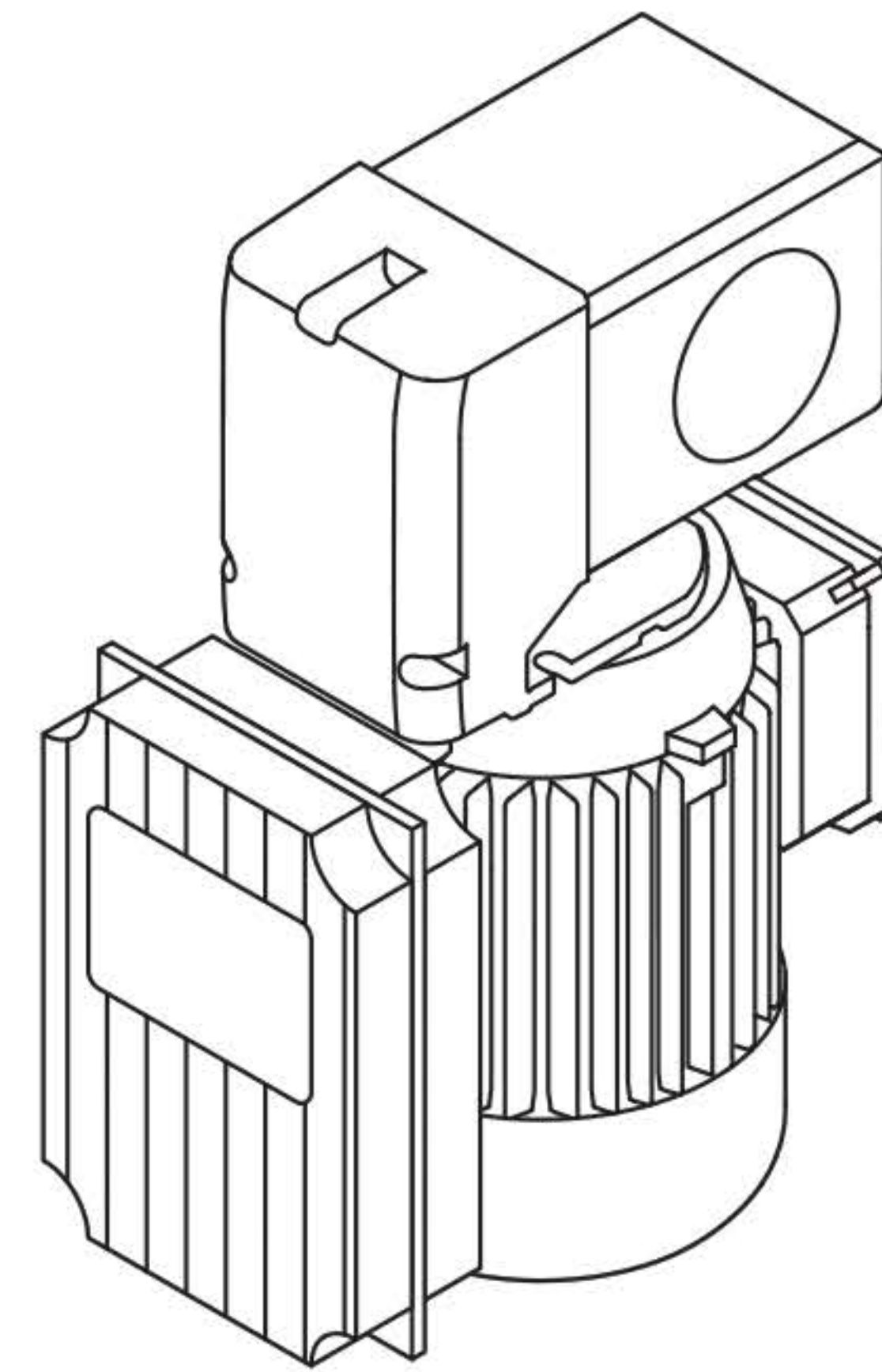
### Electric diagram - Components layout

#### Components list

C	Control unit
M	Motor
B	Brake
K	Keyboard
S	Limit switches
R	Photocell receiver
T	Photocell transmitter
J	Jamming sensor

#### Cabling

P	Power motor/brake
1	Signals connection
2	Keyboard
3	Limit switches
4	Photocell receiver
5	Photocell transmitter
6	Curtain jamming sensor

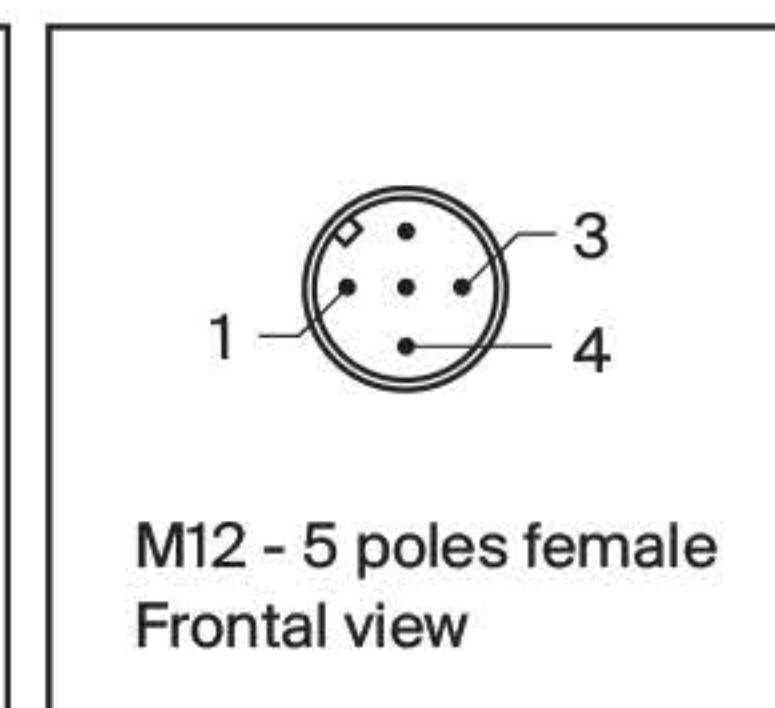
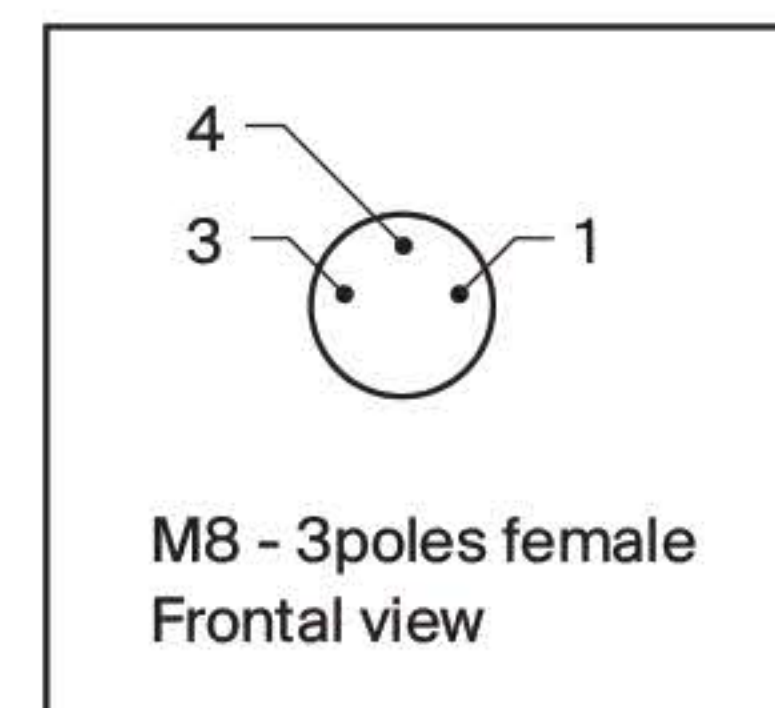


11	white	Start
1	brown	+12V
20	yellow	Limit SW close
19	green	Limit SW open
14	grey	Photocell
9	pink	Safety sensor
2	blue	0V
16	red	Stop
3	black	Serial com

Limit switches 4x0.34 - L = 500	brown	+12V
	grey	Photocell
	green	Limit SW open
	yellow	Limit SW close

Photo transmitter 2x0.34 - L = 10000	M8 - 3 POLES	1 - +12V - brown	3 - 0V - blue	
Photo receiver 3x0.34 - L = 4000	M8 - 3 POLES	1 - +12V - brown	3 - 0V - blue	4 - Photocell - grey
Curtain jamming sensor 3x0.34 - l = 500	M12 - 5 POLES	1 - 0V - blue	3 - +12V - brown	4 - Sensor - pink

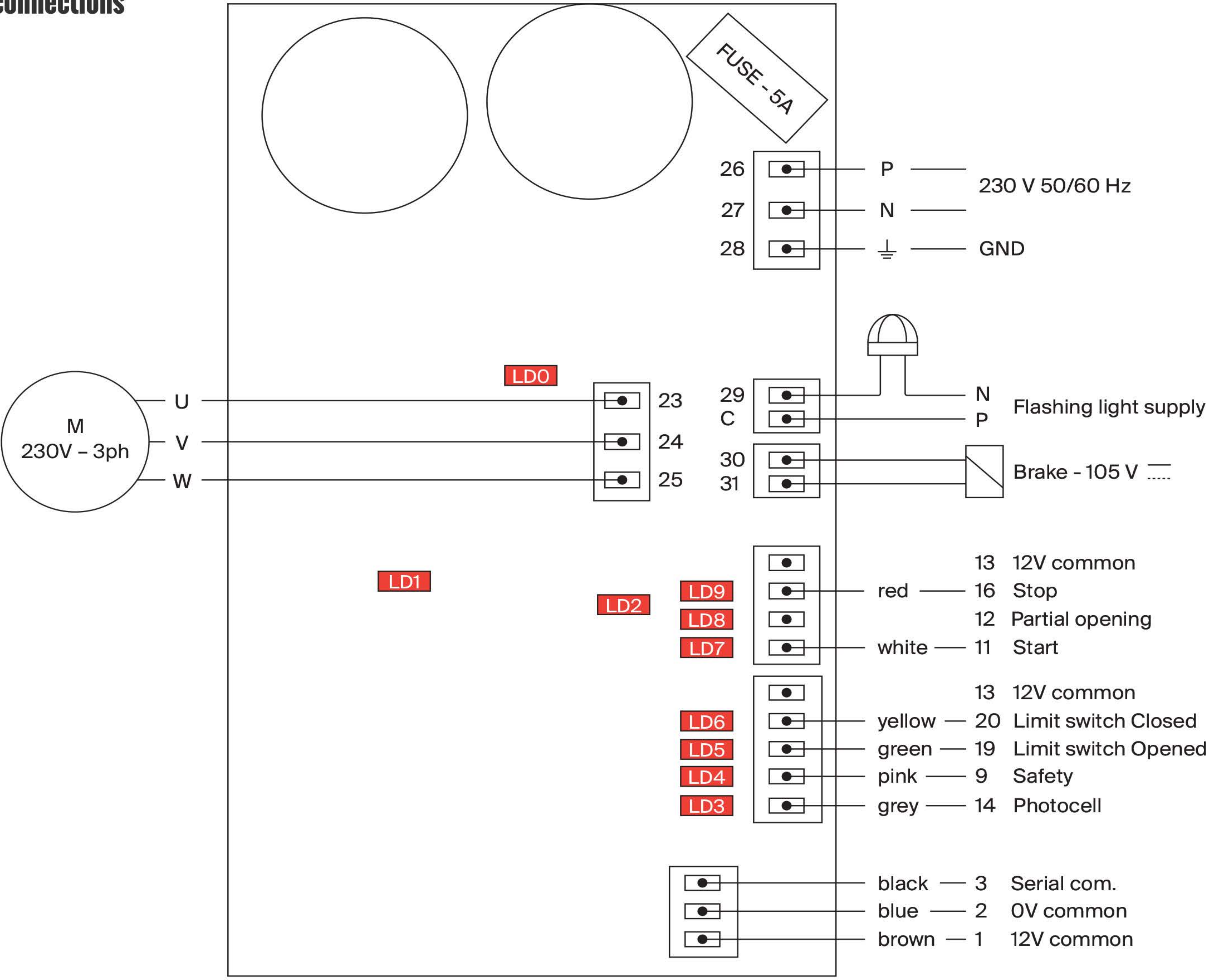
Keyboard 4 x 0.34 - L = 4000	brown	+12V
	red	STOP
	blue	0V
	black	Serial com
	white	START



# DE1 (EASY)

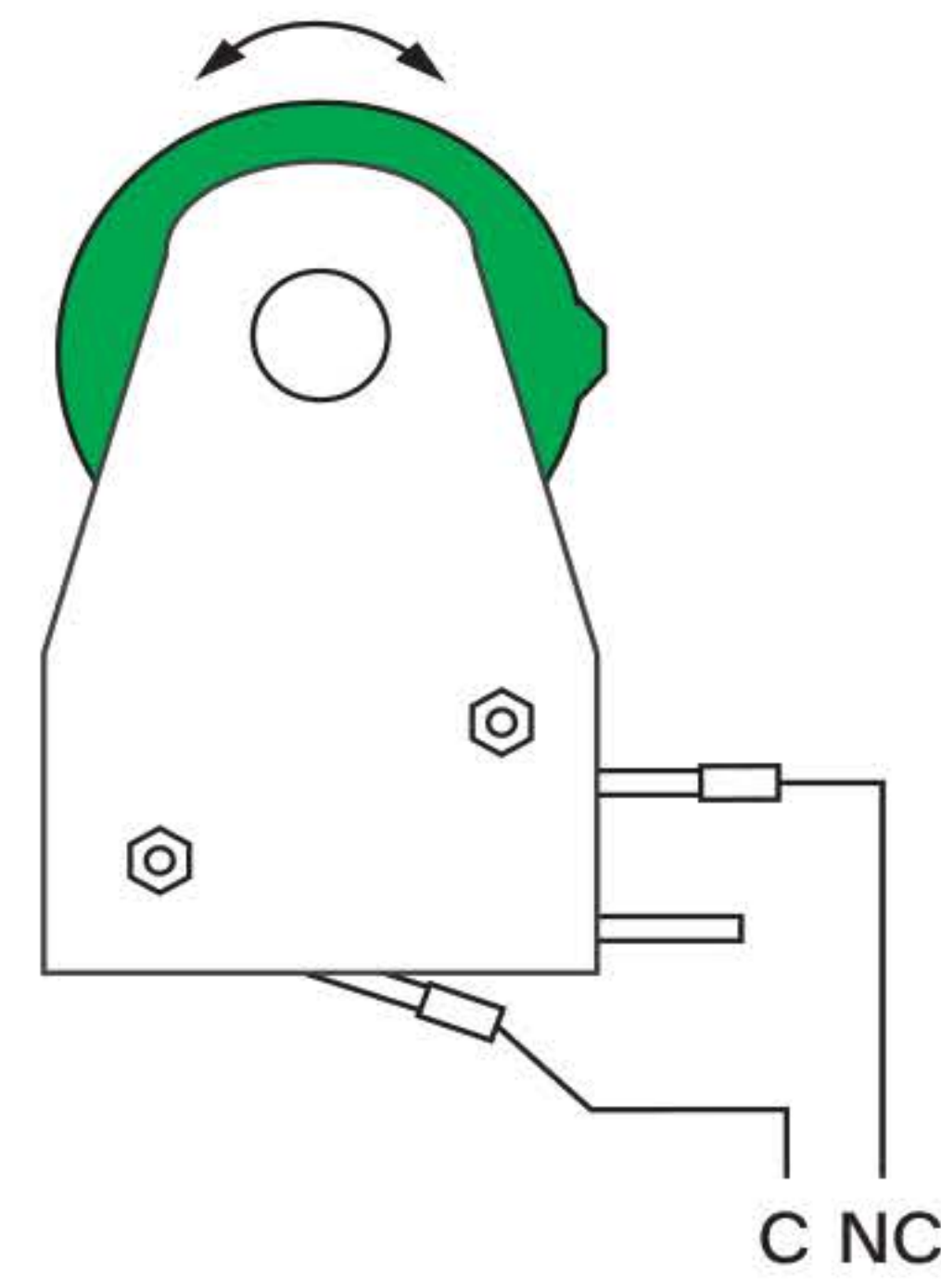
## Electronic board - Supply and power connections

Wire	Contact	Description	LED
1		12V DC	
2		0V DC	
3		Serial communication (Led/Flashing counter)	
9	NC	Safety device (curtain sensor, safety edge)	LD4
11	NO	Start	LD7
12	NO	Partial opening	LD8
13		12 V DC	
14	NC	Photocell	LD3
16	NC	Stop	LD9
19	NC	Limit switch Opened door	LD5
20	NC	Limit switch Closed door	LD6

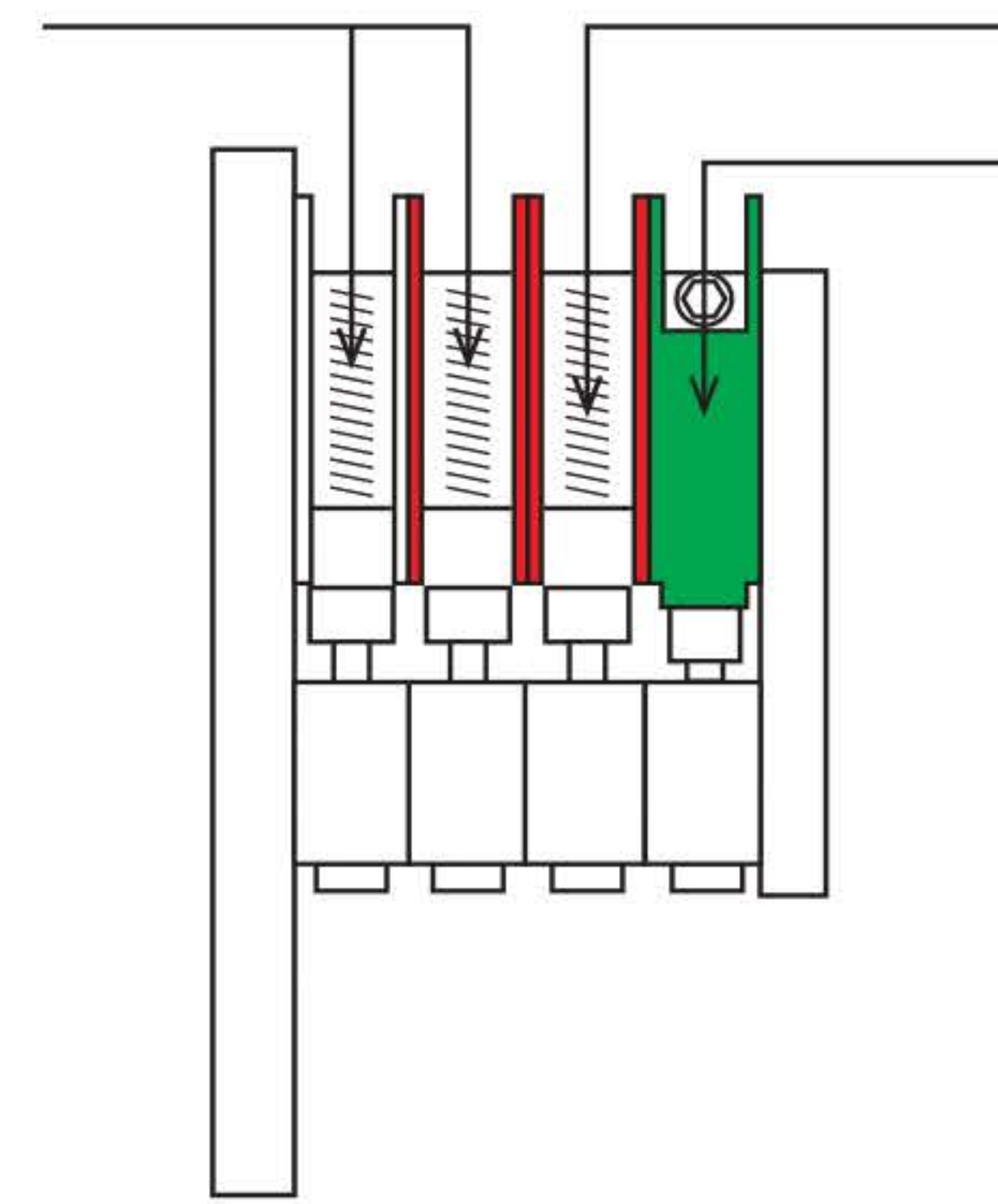


# DE1 (EASY)

## Adjustment and programming (Limit switches)



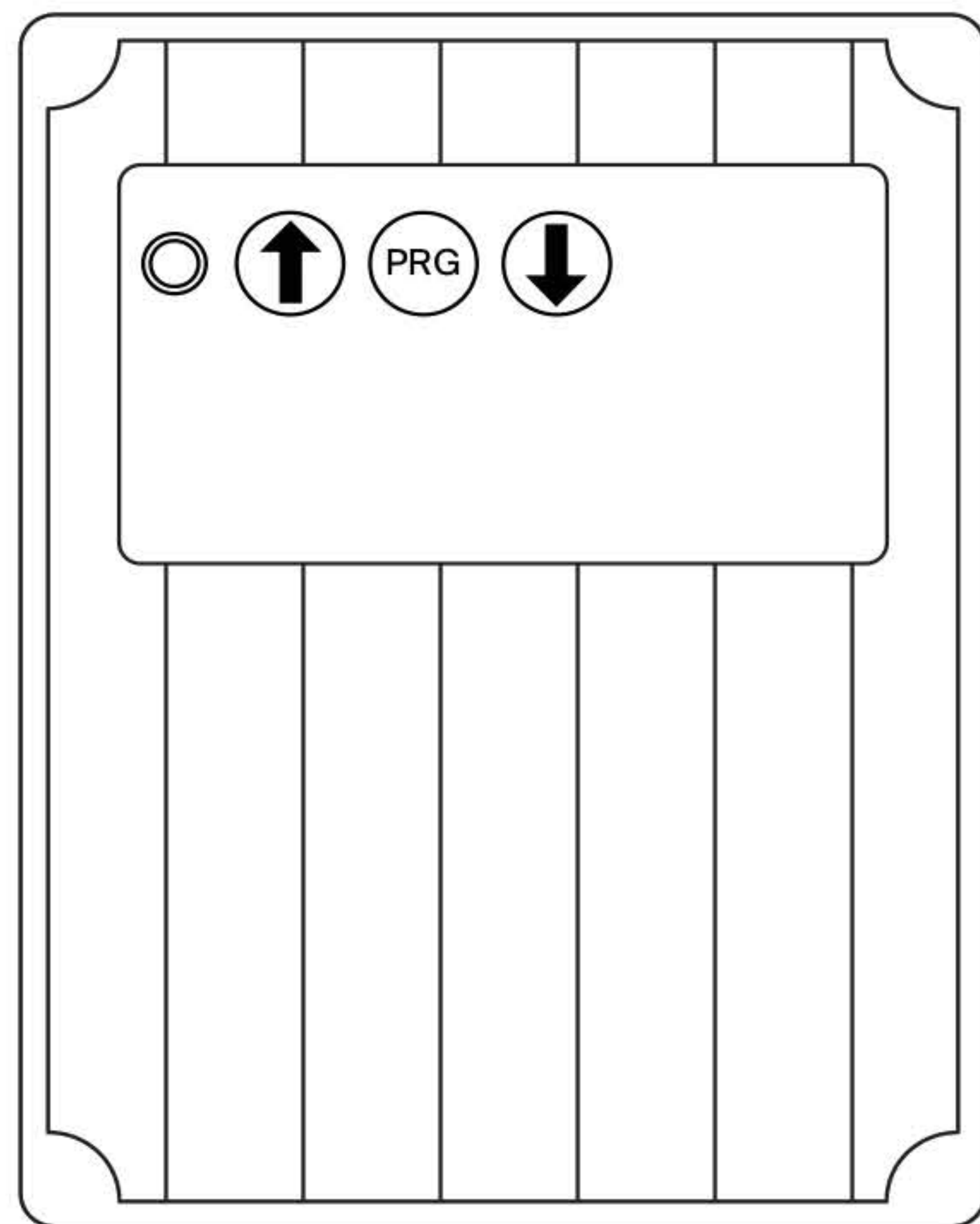
free contact switches



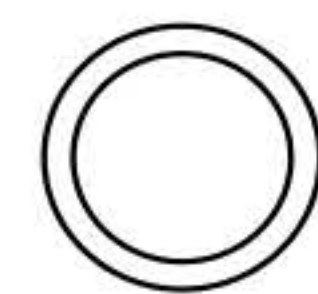
closed limit switch  
opened limit switch

Adjust the limit switches for opened and closed door position. Fix the the cams by the suitable allen key.

Wire	Contact	Description	LED
1		12V DC	
2	NC	Limit switch opened door	LD5
3	NC	Limit switch closed door	LD6



### Legend



Signalling led      Green/red light



Log up      Manual command to open (dead man)




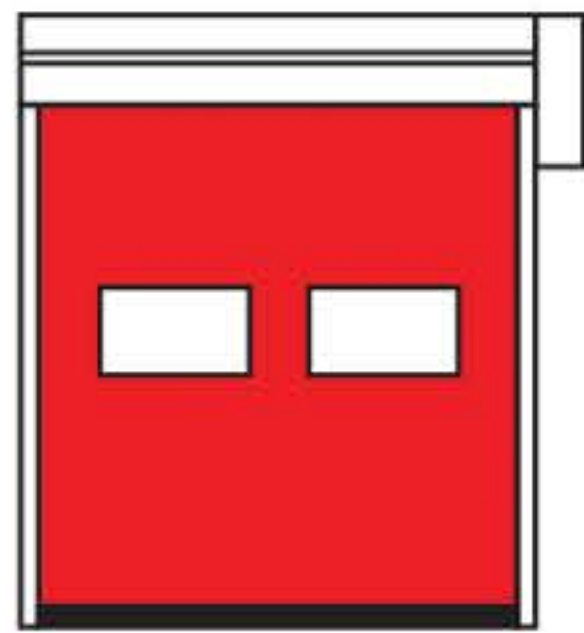


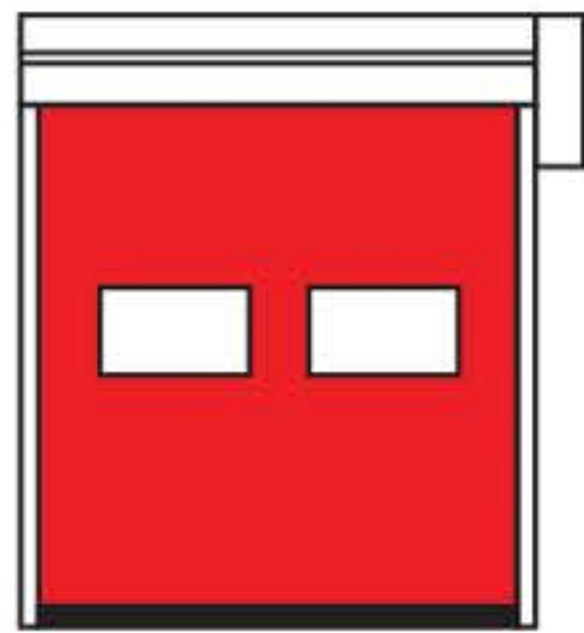


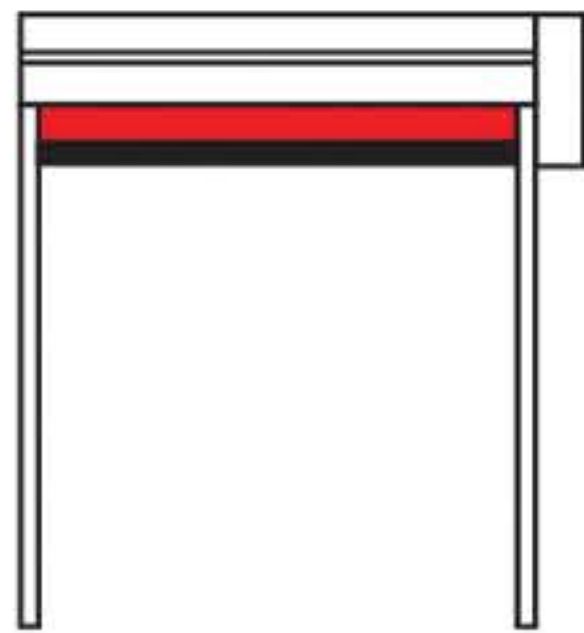


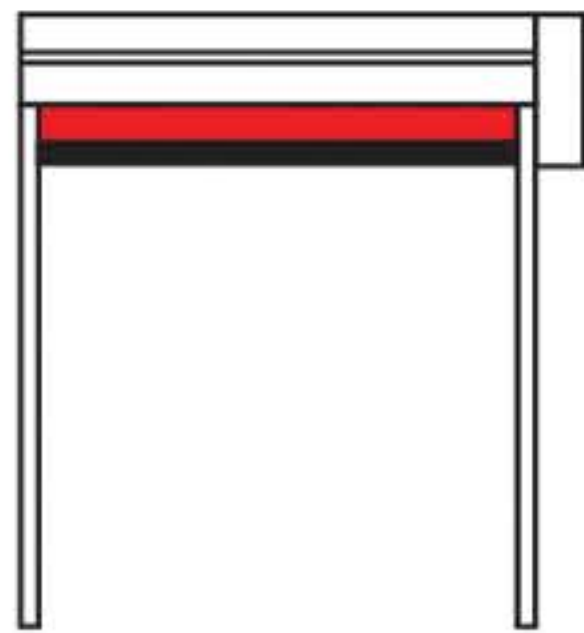


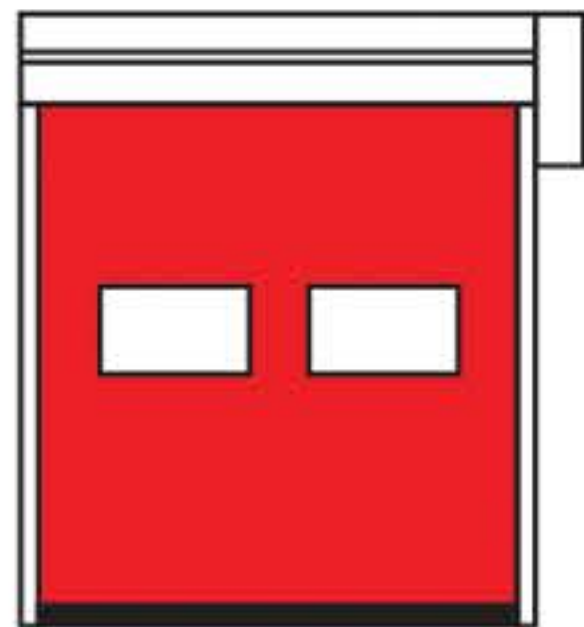

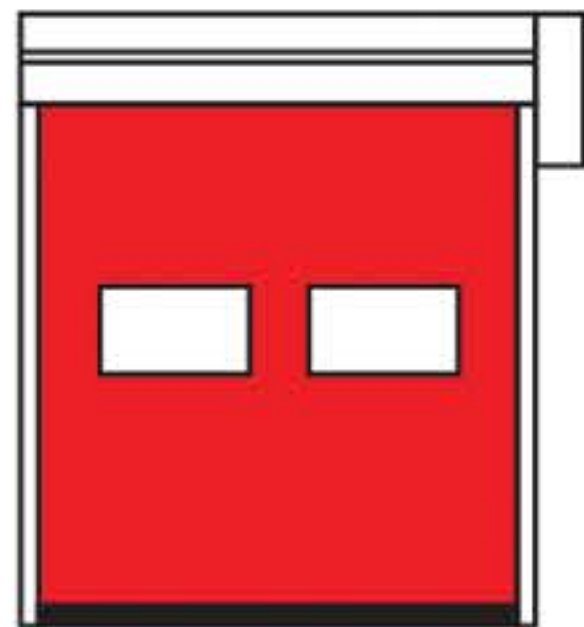

Program      Programming enable




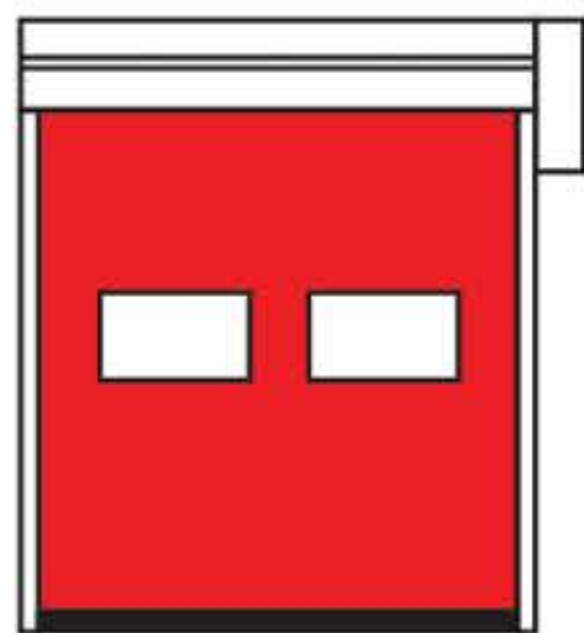


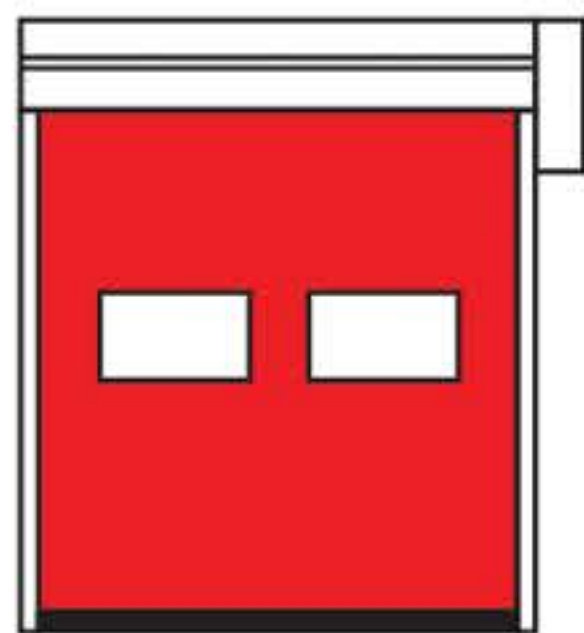


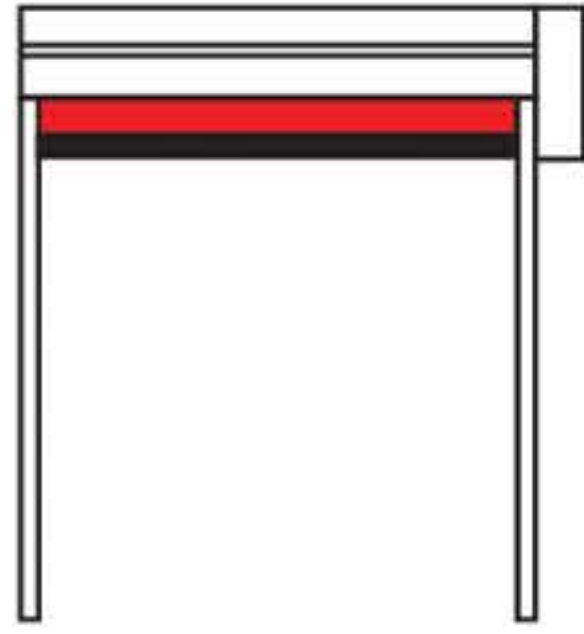


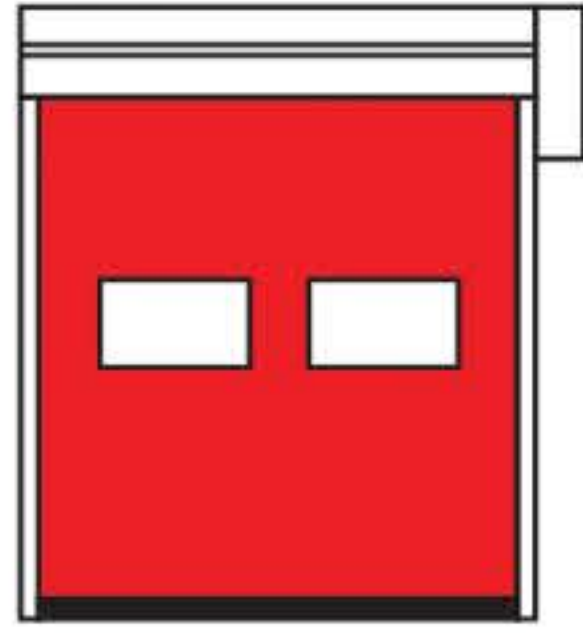

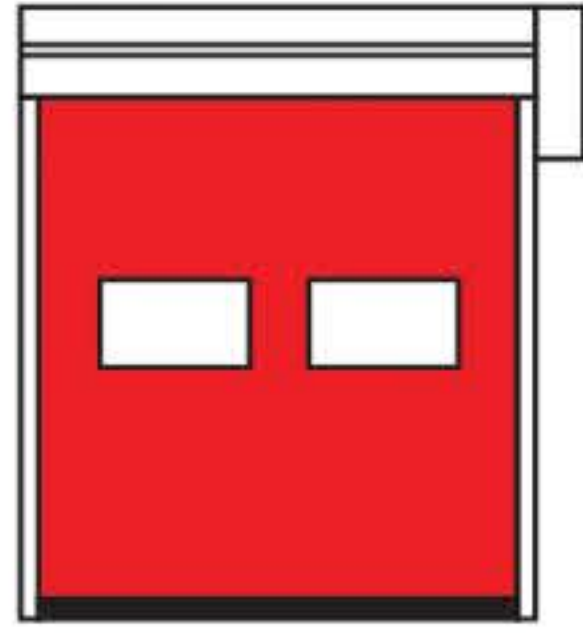

Log down      Manual command to close (dead man)

# DE1 (EASY)

## Position learning - Automatic Closing


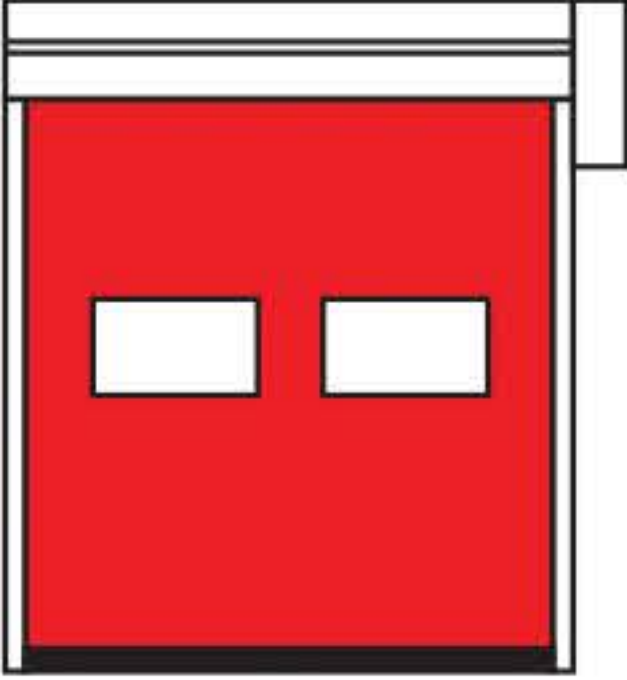


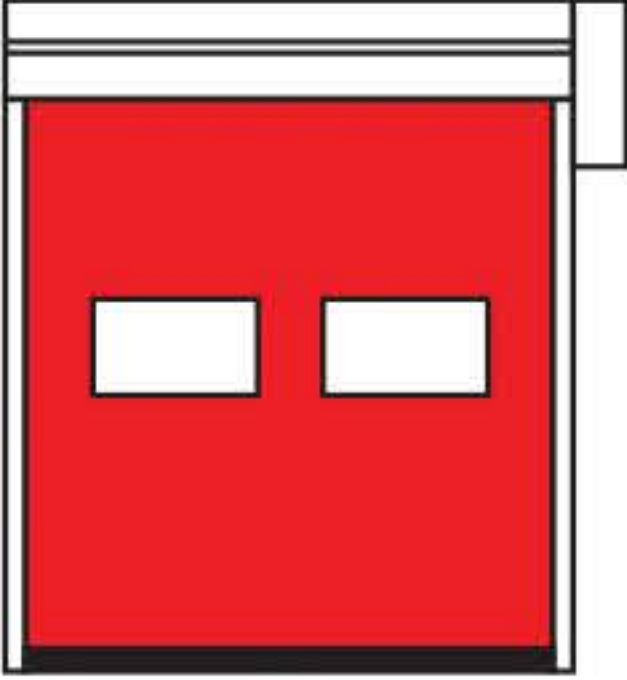


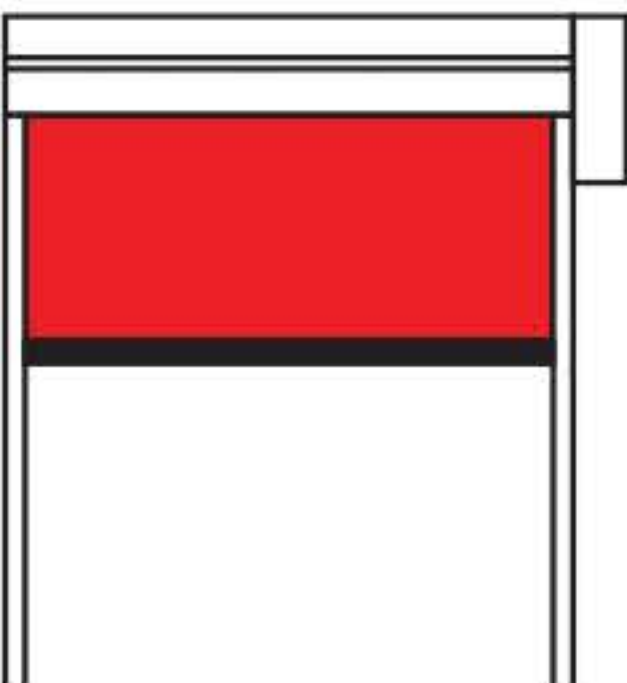


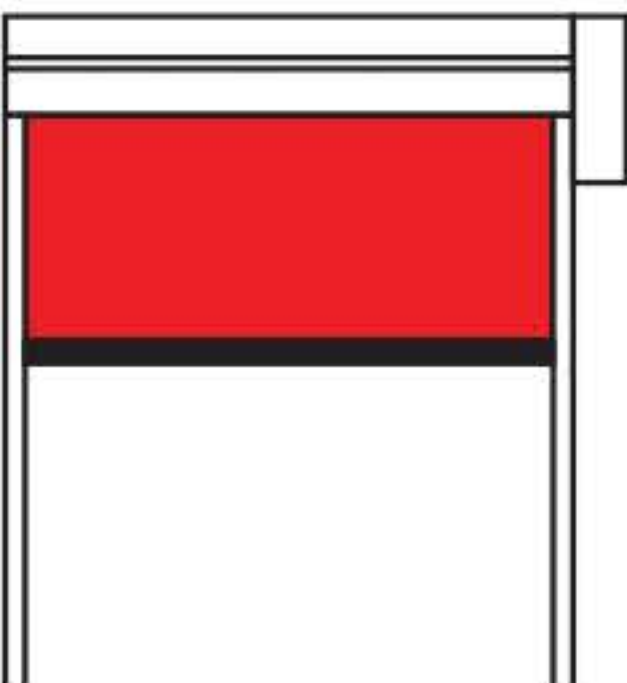



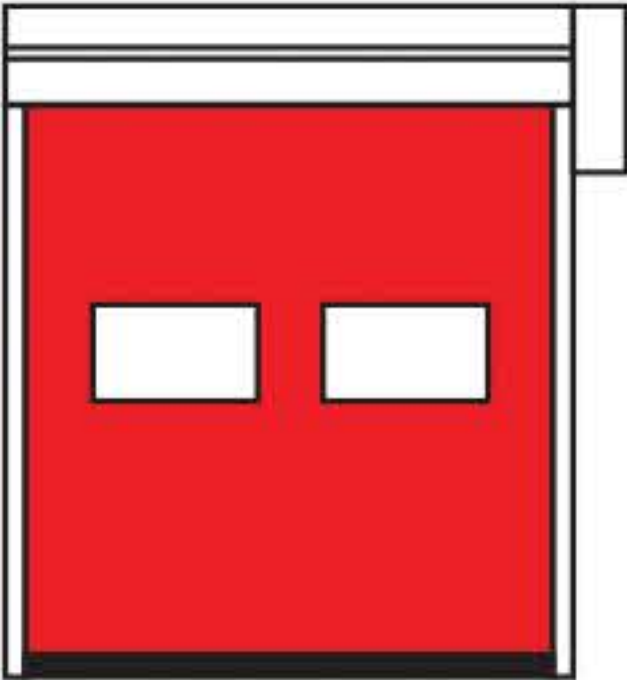

Action		Description	LED
		Close the door up to the limit switch. Keyboard led: fixed green.	
 5s		Push the button "PRG" for 5s. Keyboard led: flashing green/red.	
		Push UP arrow to open the door up to the limit switch. Keyboard led: flashing red.	
 T		Wait the time before closing. Keyboard led: fixed red.	
		Push the button "PRG" (impulsive) to close the door up to the limit switch. Keyboard led: flashing green/red.	
		Closed door. Keyboard led: fixed green.	

## Position learning - Step by step

Action		Description	LED
		Close the door up to the limit switch. Keyboard led: fixed green.	
 5s		Push the button "PRG" for 5s. Keyboard led: flashing green/red.	
		Push UP arrow to open the door up to the limit switch. Keyboard led: flashing red.	
		Push the button DOWN (impulsive) to close the door up to the limit switch. Keyboard led: flashing green/red.	
		Closed door. Keyboard led: fixed green.	

# DE1 (EASY)

## Pedestrian opening adjustment

Action		Description	LED
		Close the door up to the limit switch. Keyboard led: fixed green.	
		Push the button "PRG" for 5s. Keyboard led: flashing green/red.	
 1-12		Give the command to open partially. Keyboard led: flashing red.	
 1-12		Give another partial open command to fix the partial position. Keyboard led: flashing red.	
 T		Wait the time before closing. Keyboard led: fixed red.	
 1-12		Give another partial open command to close the door. Keyboard led: flashing green/red.	

# DE1 (EASY)

## Alarm list

<b>Error code</b>	<b>Alarm description</b>	<b>Troubleshooting</b>
01	Zero brake current	Brake winding unplugged or interrupted. Check connection terminals 30-31 or replace brake.
02	Short-circuit motor winding	Short circuit on the motor winding. Check the motor.
03	Brake overload	Brake winding in short-circuit. Replace brake.
04	Main supply low voltage	Main supply voltage less than 190V AC. Check supply level and line section.
05	Overheating	Temperature over the allowed threshold. Reduce duty-cycle, increasing break time, check inverter and ventilation.
06	Overcurrent surge to the motor	Instantaneous motor current over the threshold. Decrease speed.
07	System overloading	Power overload to the electric motor. Check the motor type.
08	Overvoltage on bus power	Motor generates an overvoltage. Decrease the closing speed.
09	Open limit switch missing.	Incorrect adjustment of the opening limit switch. Check switch connection and adjustment.
10	Closing limit switch missing	Incorrect adjustment of the closing limit switch. Check switch connection and adjustment.

# DB1/DB2 (EXTERNAL BOARD)

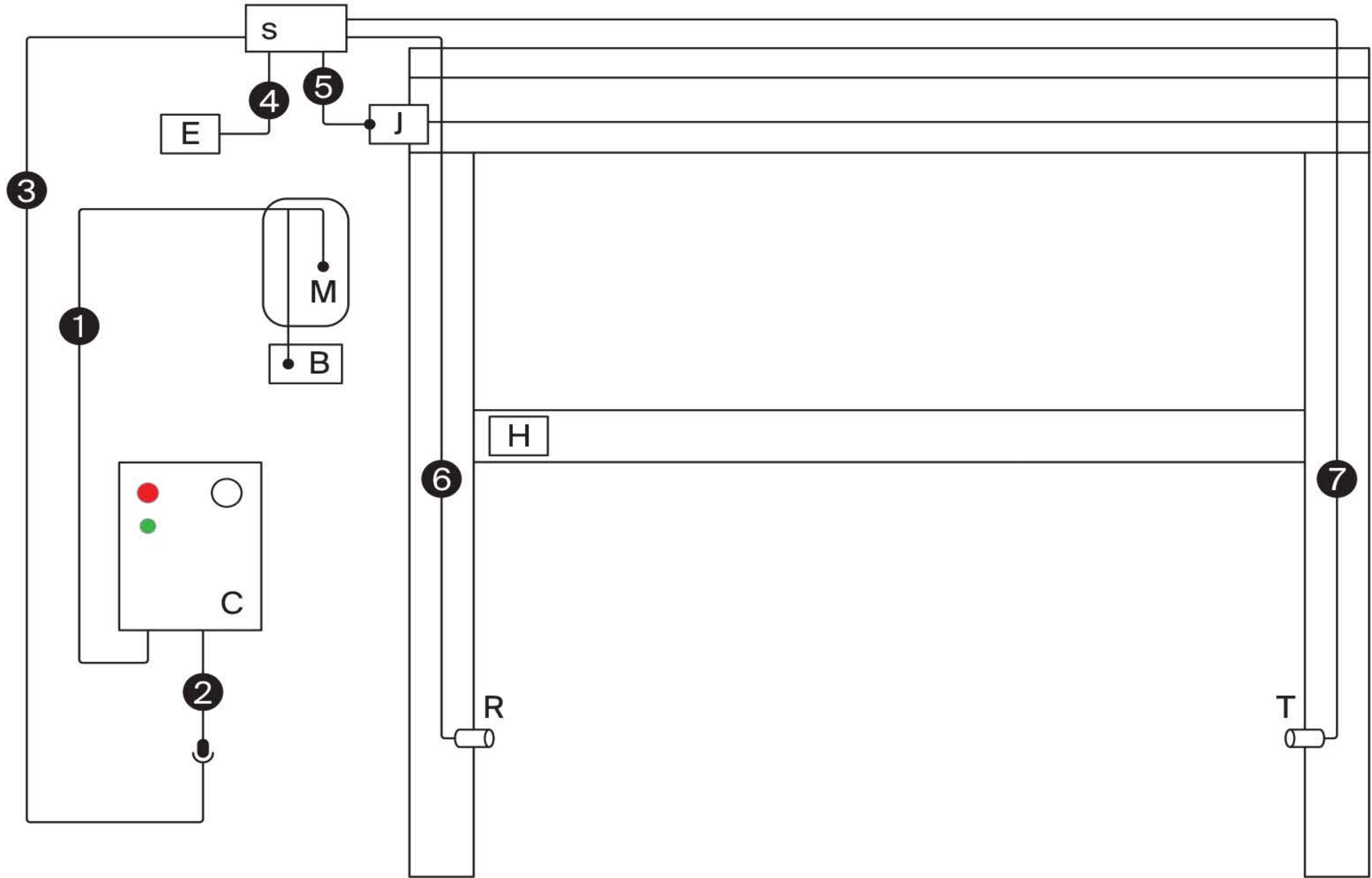
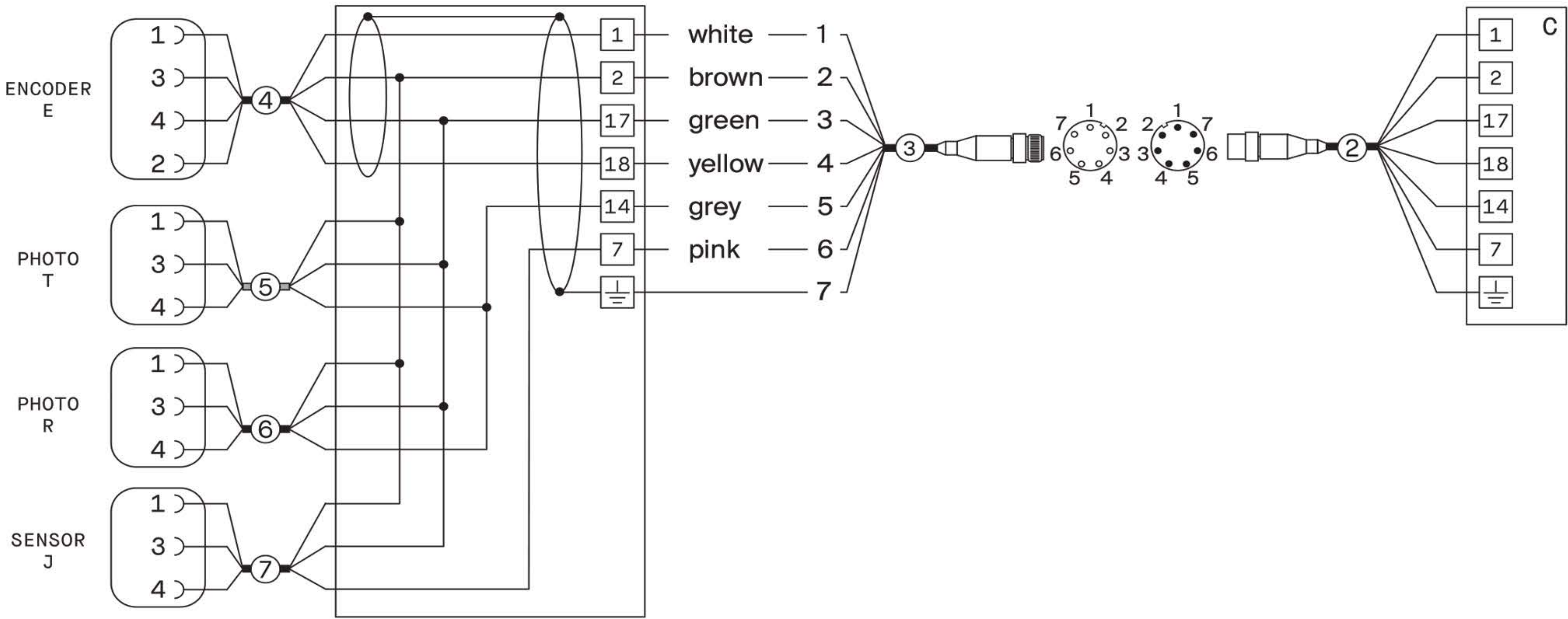
## Electric diagram - Components layout

**Components list**

C	Control board
M	Three phase geared motor
S	Signals distributor connection (spider)
B	Electro-brake
J	Curtain jamming sensor
R	Infrared photocell receiver
T	Infrared photocell transmitter
H	Safety edge radio band transmitter

**Cabling**

1	Motor and brake supply cabling	4x1,5mm <sup>2</sup>
2	Control board/Mobile connector cable	7x0,5mm <sup>2</sup>
3	Mobile connector/Distribution connection	7x0,34mm <sup>2</sup>
4	Encoder cable	4x0,34mm <sup>2</sup>
5	Curtain jamming sensor cable	3x0,34mm <sup>2</sup>
6	Photocell receiver cable	3x0,34mm <sup>2</sup>
7	Photocell transmitter cable	3x0,34mm <sup>2</sup>

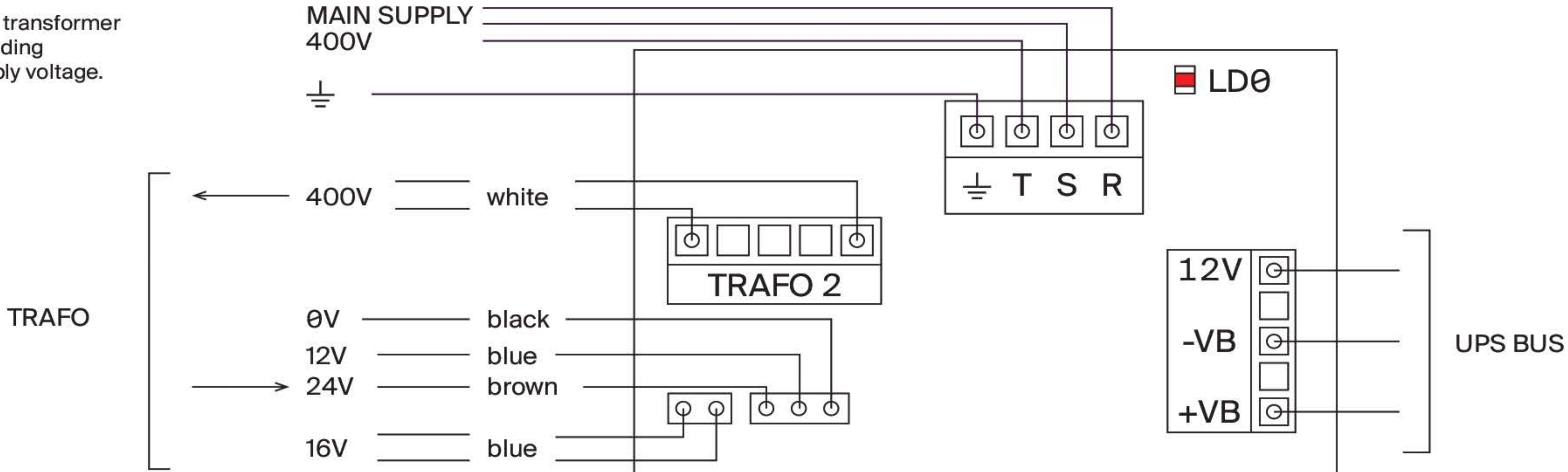


# DB1/DB2 (EXTERNAL BOARD)

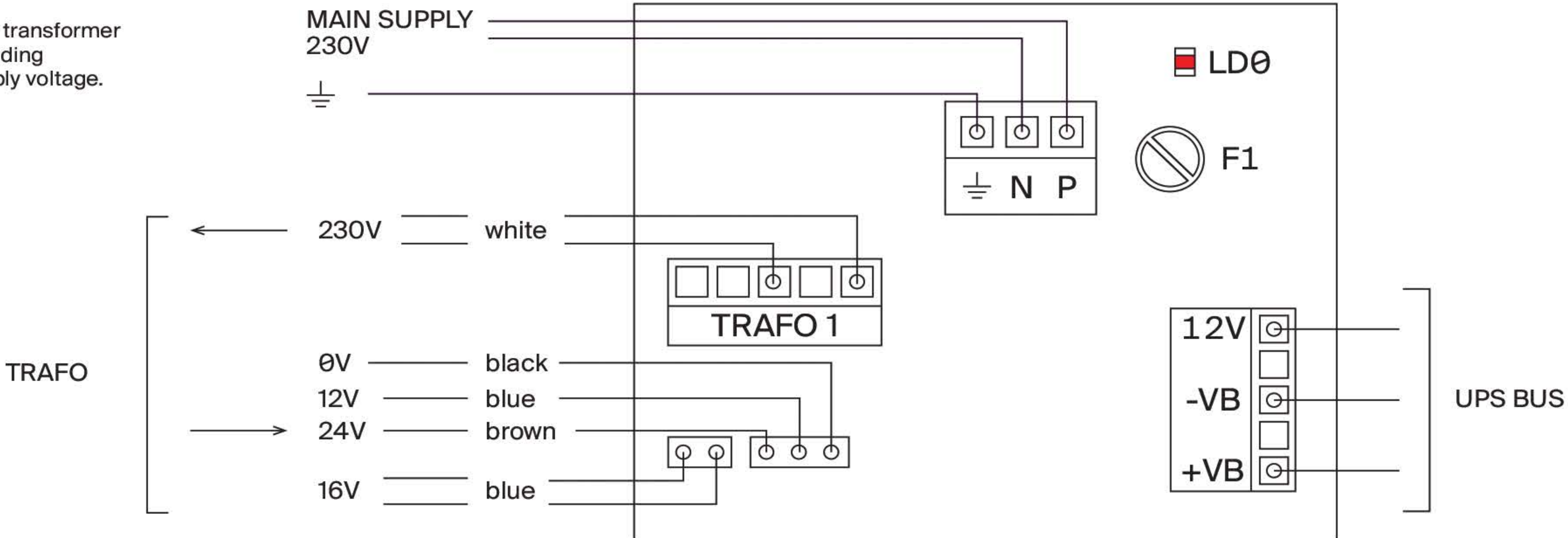
## Electronic board - Supply and power connections



Connect to the transformer inlet corresponding to the real supply voltage.




Connect to the transformer inlet corresponding to the real supply voltage.



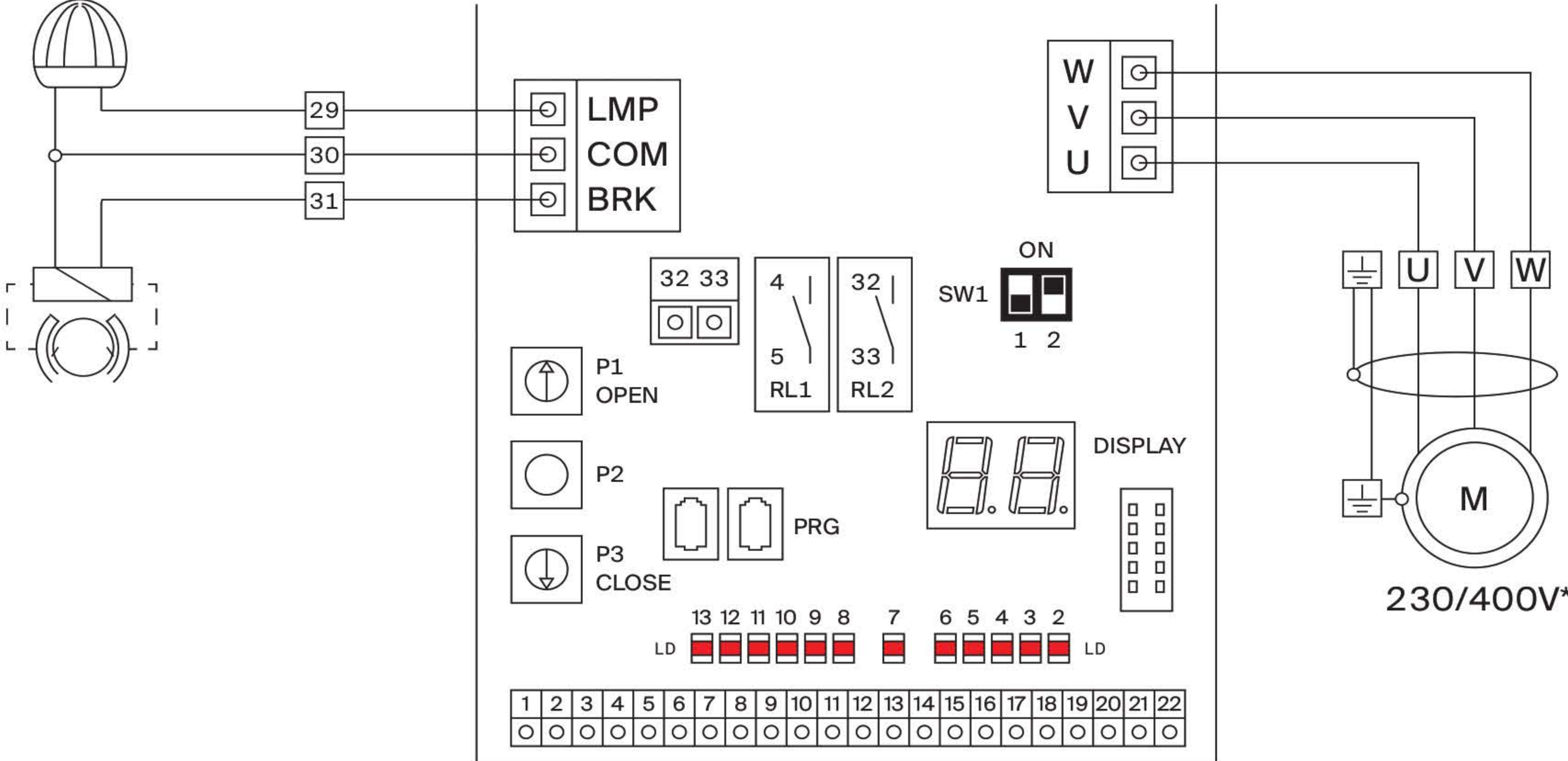


# DB1/DB2 (EXTERNAL BOARD)

## Electronic board - Supply and power connections

 Connect the shield of the motor cable to the ground terminal.

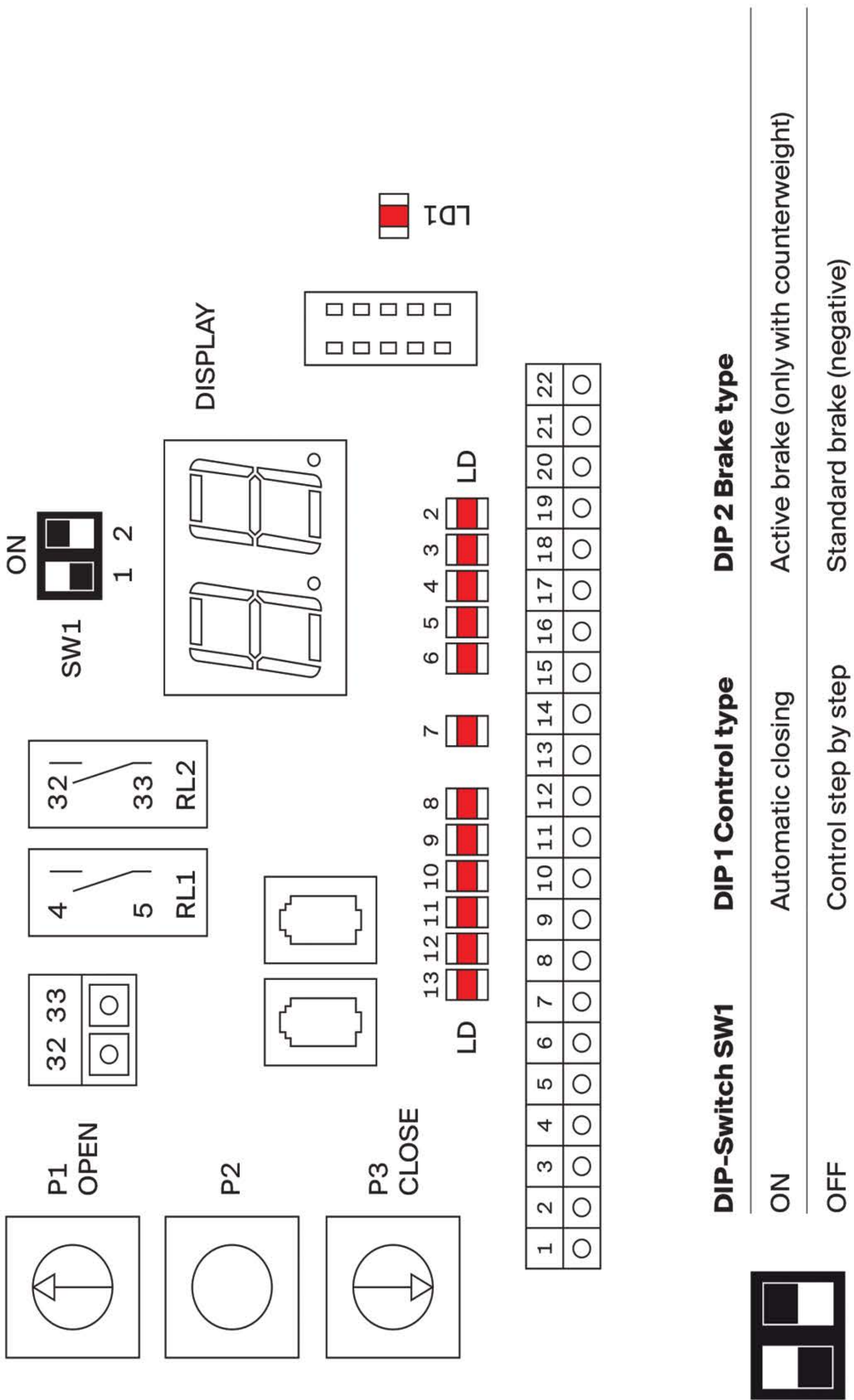
\* Verify that the motor programmed in SYSTEM PARAMETERS SETUP matches the nameplate data of the installed type.



Terminal	Description	BMP1 V3	BMP2 V3
P-N / R-S-T	Main supply	230V AC	400V AC
12V	Signal SUPPLY FROM UPS	12V DC	-
+VB -VB	Supply bus from UPS (optional)	320V DC	-
U - V - W	Three-phase motor	230V - 0,75 / 1,5kW	400V - 0,75 / 1,5kW
LMP - 29 30	Flashing lamp	230V AC [RMS]	230V AC [RMS]
BRK - 30 31	Brake	110V DC [RMS]	110V DC [RMS]
F1	Fuse	10A (230V)	-
LDO	Capacitor discharging signaling	-	-
PRG	LCD Programmer	-	-

# DB1/DB2 (EXTERNAL BOARD)

## Controls and safety inputs



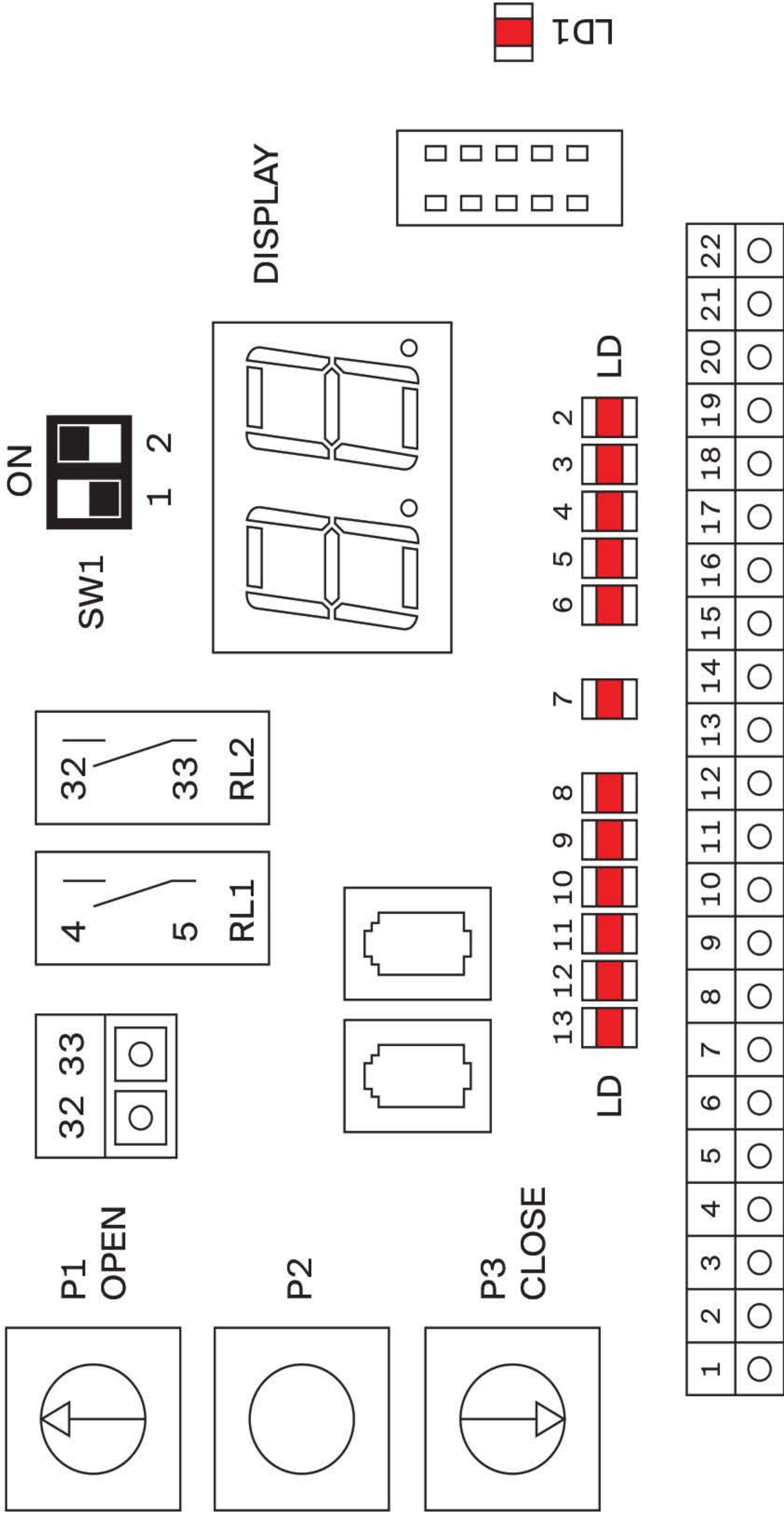
Terminal	Description	Signalling LED
1	+12V common	
2	0V common	
3	Not used (serial com)	
4-5	Output: Close Contact at closed door (voltage free contact RL1)	
6	+12V common	
7	NC Curtain jamming Sensor	LD13
8	NO Open command (external command by accessories)	LD12
9	NC Safety edge or light curtain (photocell barrier)	LD11
10	- Opening command from UPS (only for old UPS 230V)	LD10
11	NO Start command (push button)	LD9
12	NO Pedestrian opening command	LD8
13	+12V common	
14	NC Photocell Signal	LD7
15	+12V common	
16	NC Stop	LD6
17	NC Encoder channel A or Opening approaching limit switch	LD5
18	NC Encoder channel B or Closing approaching limit switch	LD4
19	NC Opening limit switch (if limit switches set)	LD3
20	NC Closing limit switch (if limit switches set)	LD2
21	24V AC Accessories supply	
22	24V AC Accessories supply	
32-33	Output: Close Contact at opened door (voltage free contact RL2)	



12V for safety devices and encoder.  
Do not use to supply optional accessories.

# DB1/DB2 (EXTERNAL BOARD)

## Manual JOG and Display

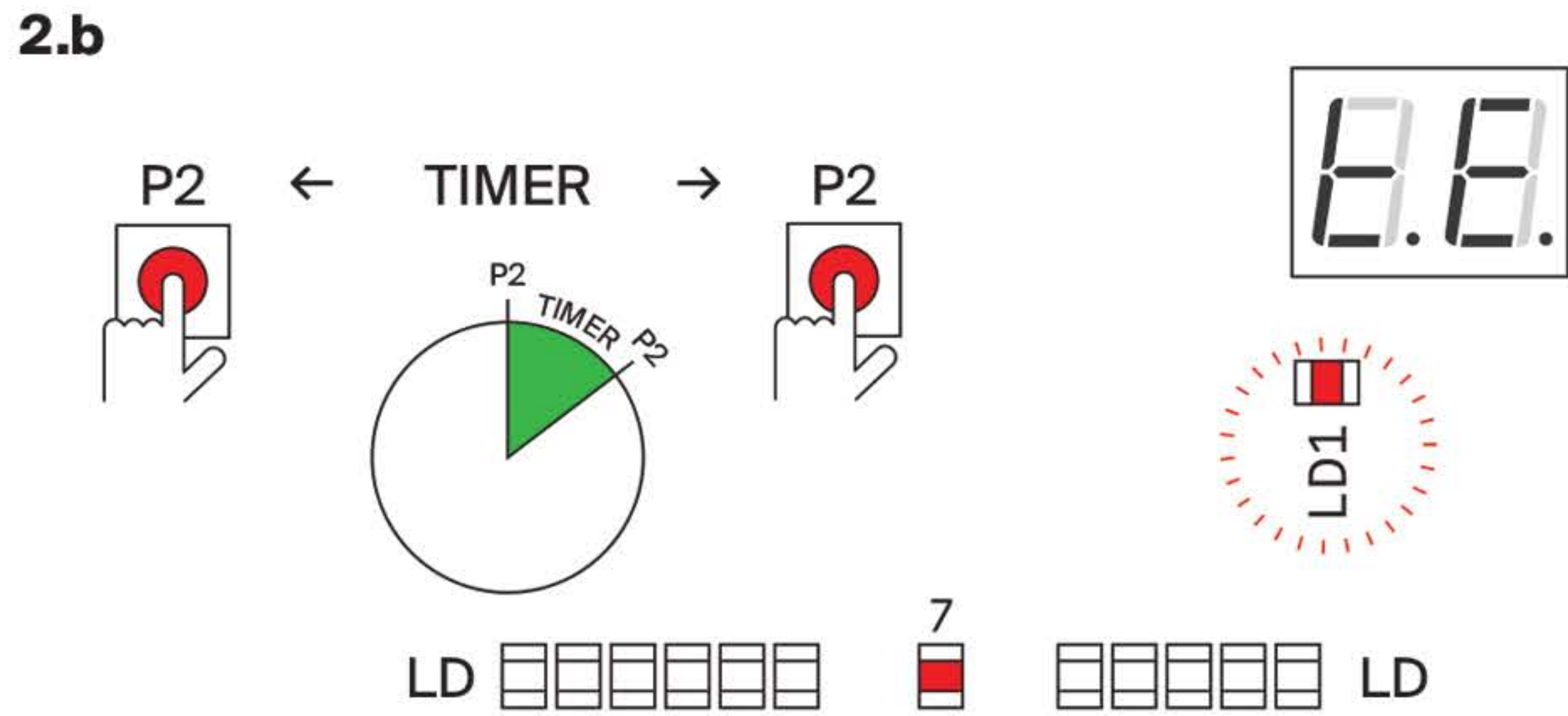
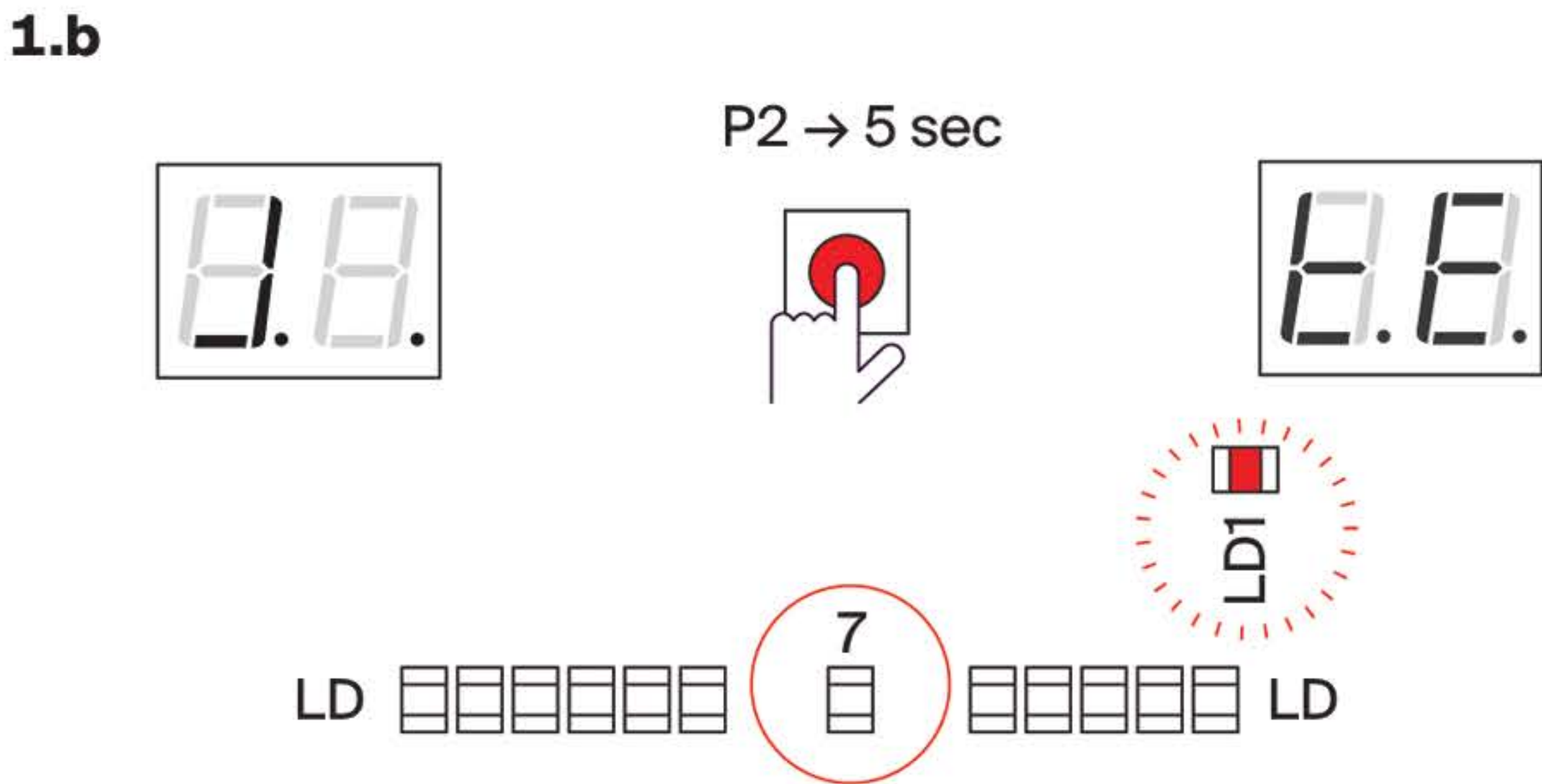
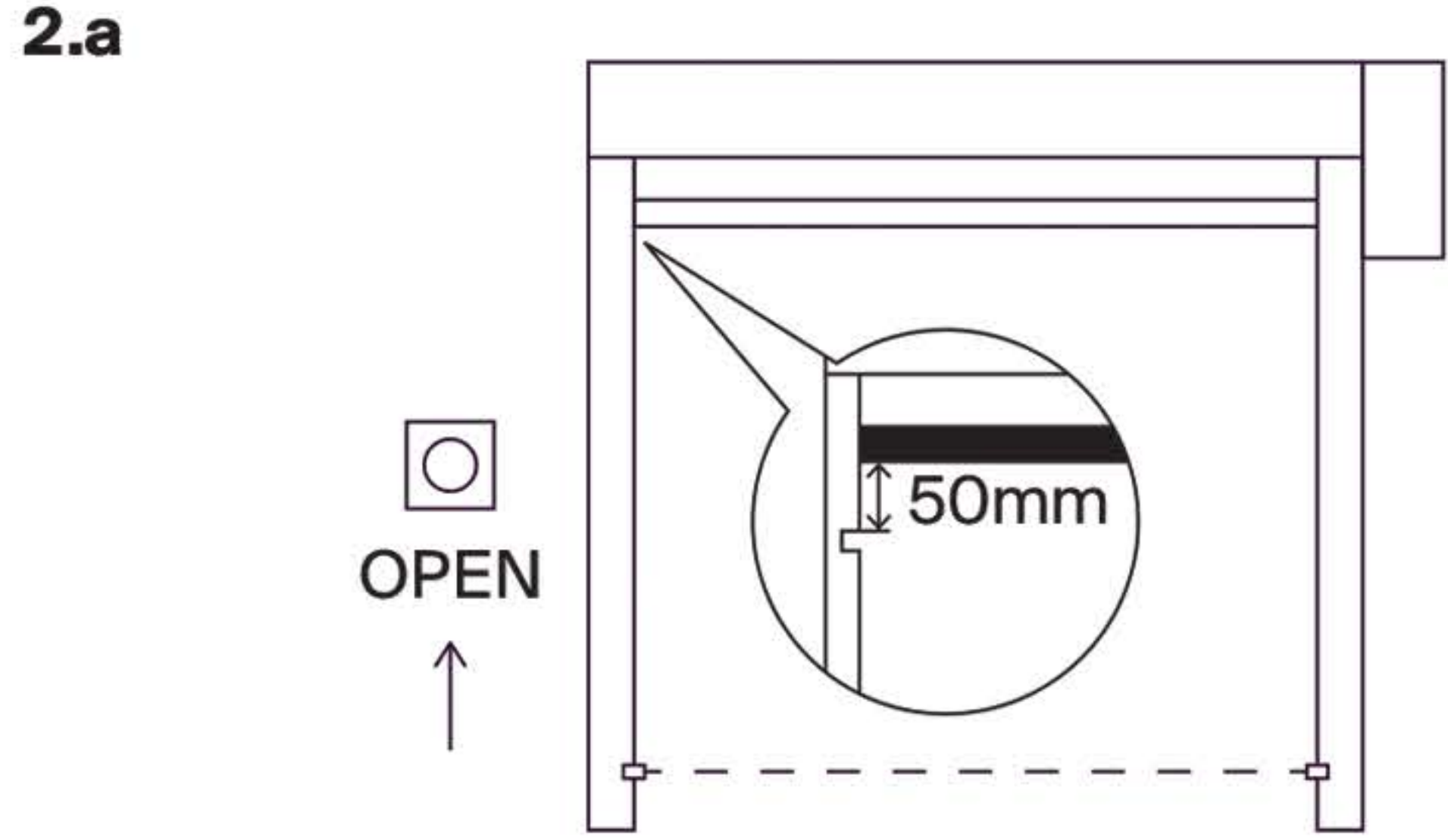
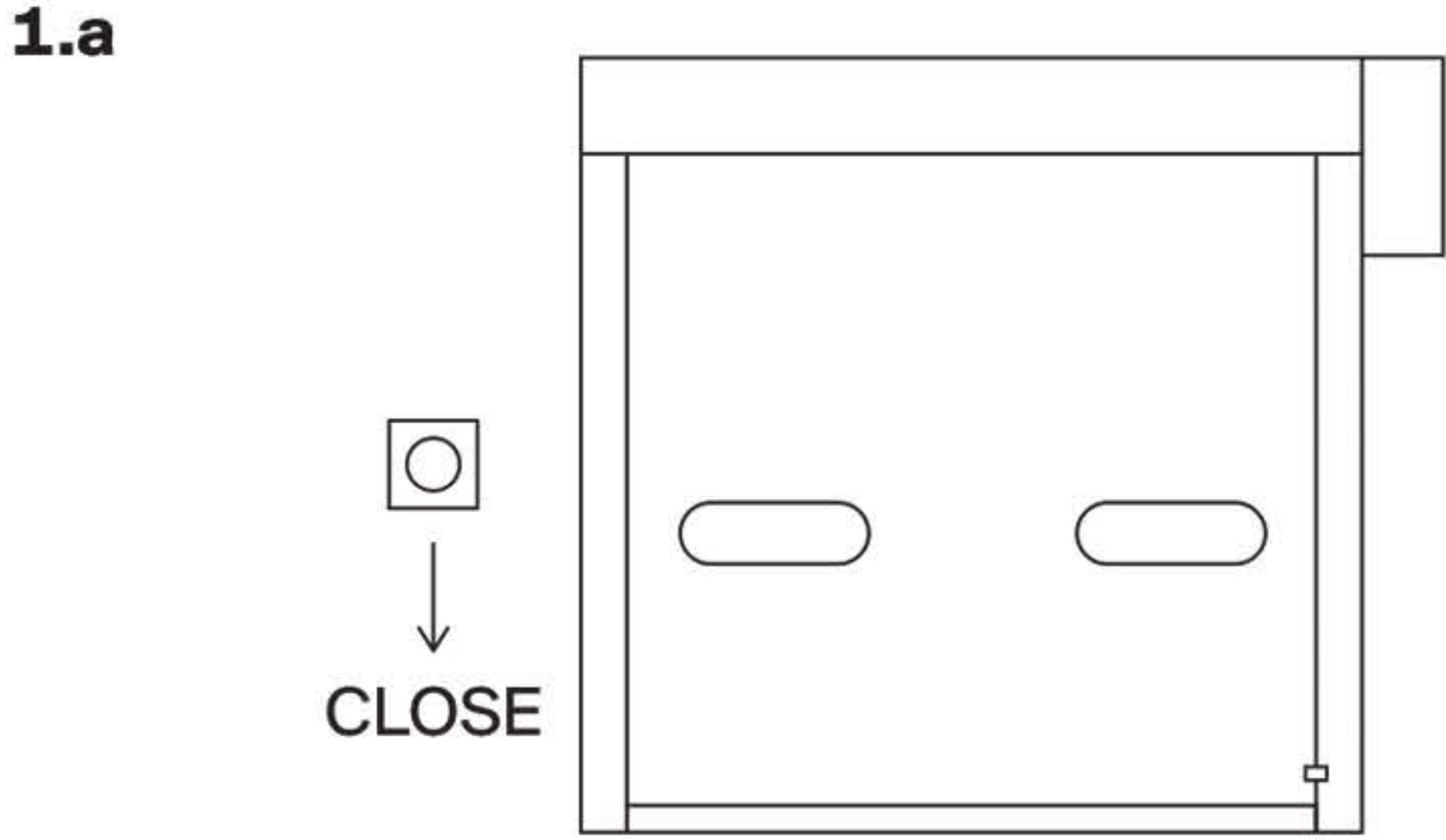
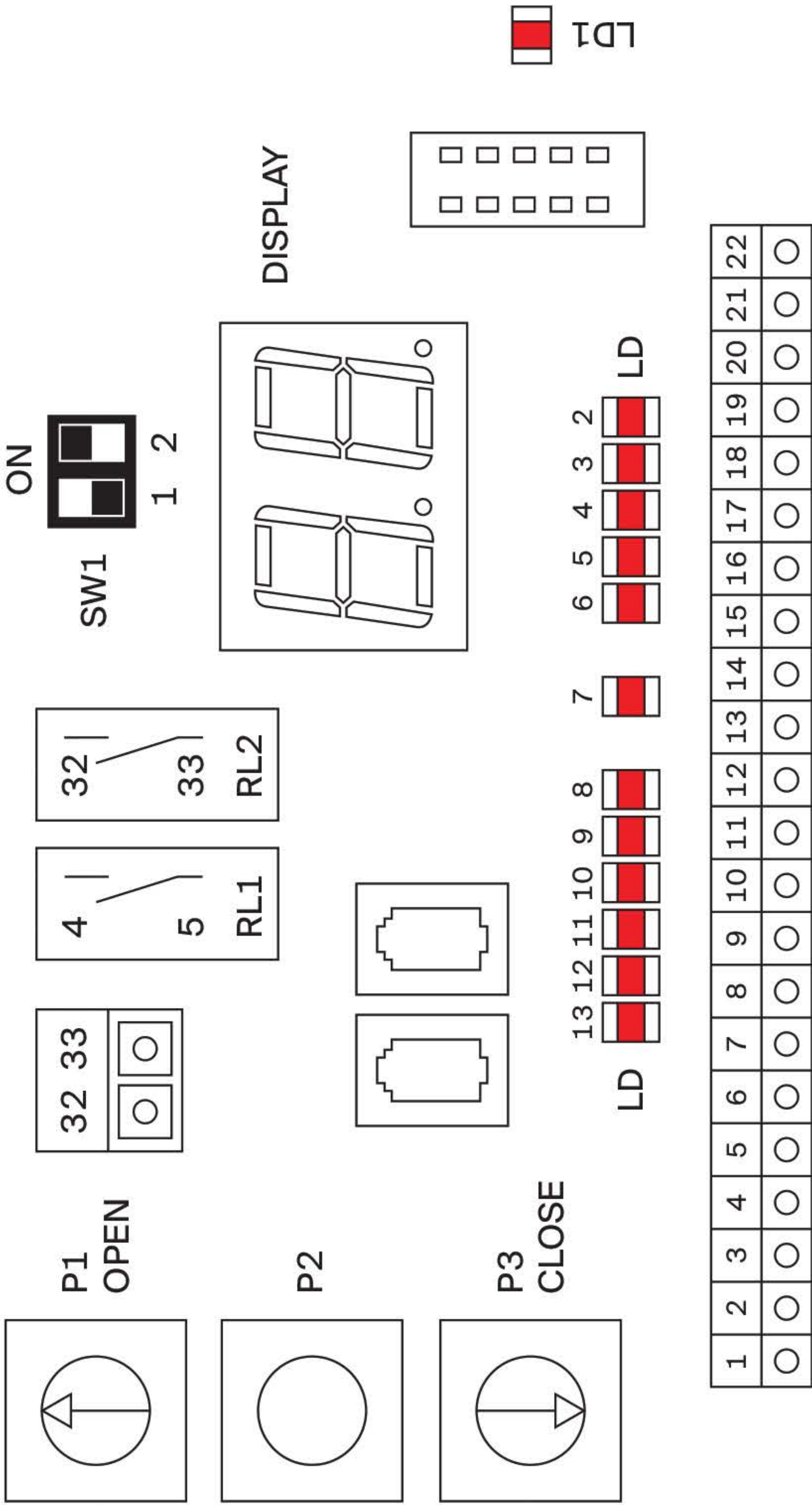


Button	Action	Description
P1	Jog Open	Service command in opening
P2	Program mode command	Programming mode pushing for 5 seconds
P3	Jog Close	Service command in closing

I digit	II digit	Description
AL	00 00	Door in standby, wating Jog command
J		Jog mode activated
Jo		Manual open (Jog open)
Jc		Manual close (Jog close)
CL		Door in closing (CLOsing)
OP		Door in opening (OPening)
C		Door closed (Closed)
O		Door opened (Opened)
tE		Encoder programming activated (teaching Encoder)
tS		Electromechanical switches programming (teaching Switch)
tP		Pedestrian opening programming (teaching Pedestrian)
to		Opening time (timing opened)
PE		Pedestrian opening position (PEdestrian)
St		Stop button activated (Stop)
EA		Encoder in alignmet (Encoder Alignment)
AL		Alarm (ALarm) list at page 14
UPS		Emergency supply activated (UPS)
0...99		Break timing (count down)
-		Pausa 0 time (start the closing)
HH		Incorrect encoder alignment after a shutdown

# DB1/DB2 (EXTERNAL BOARD)

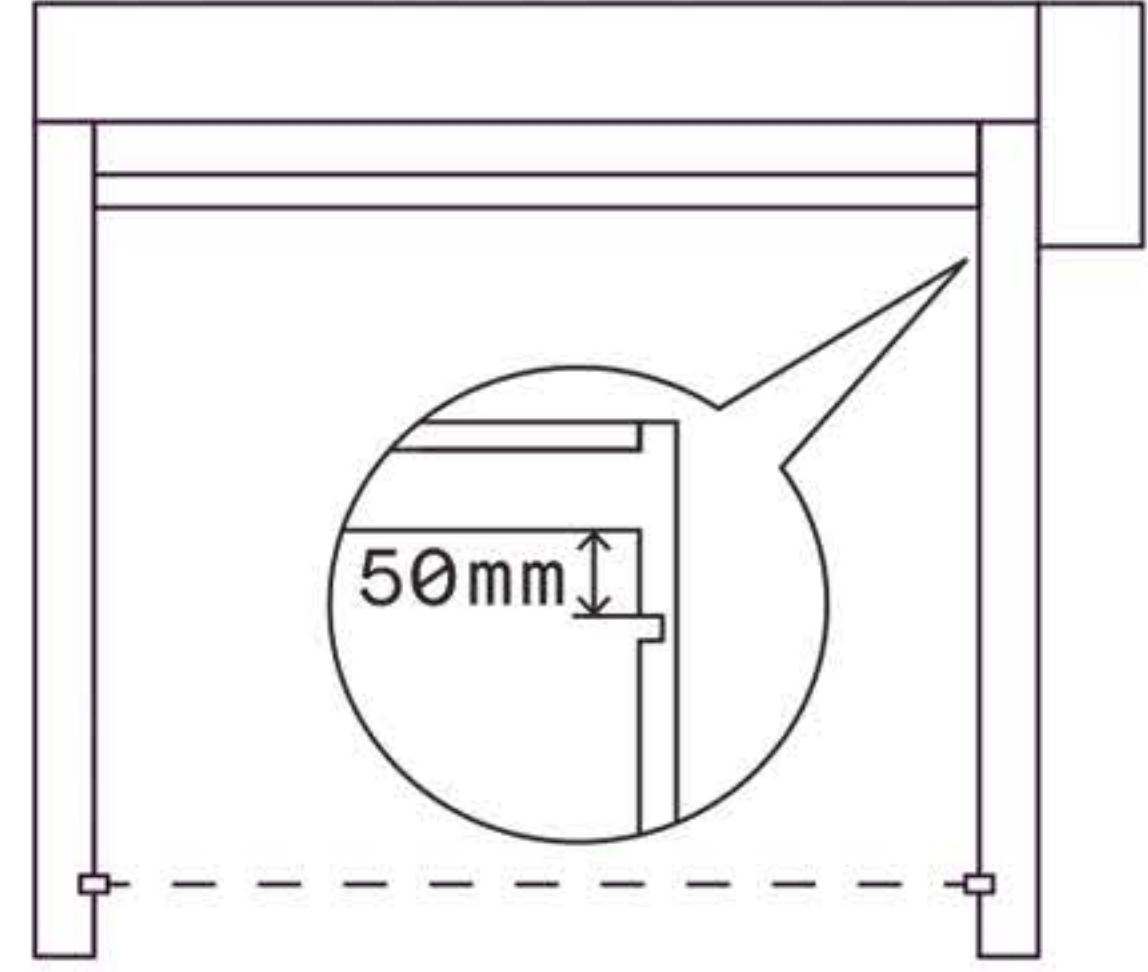
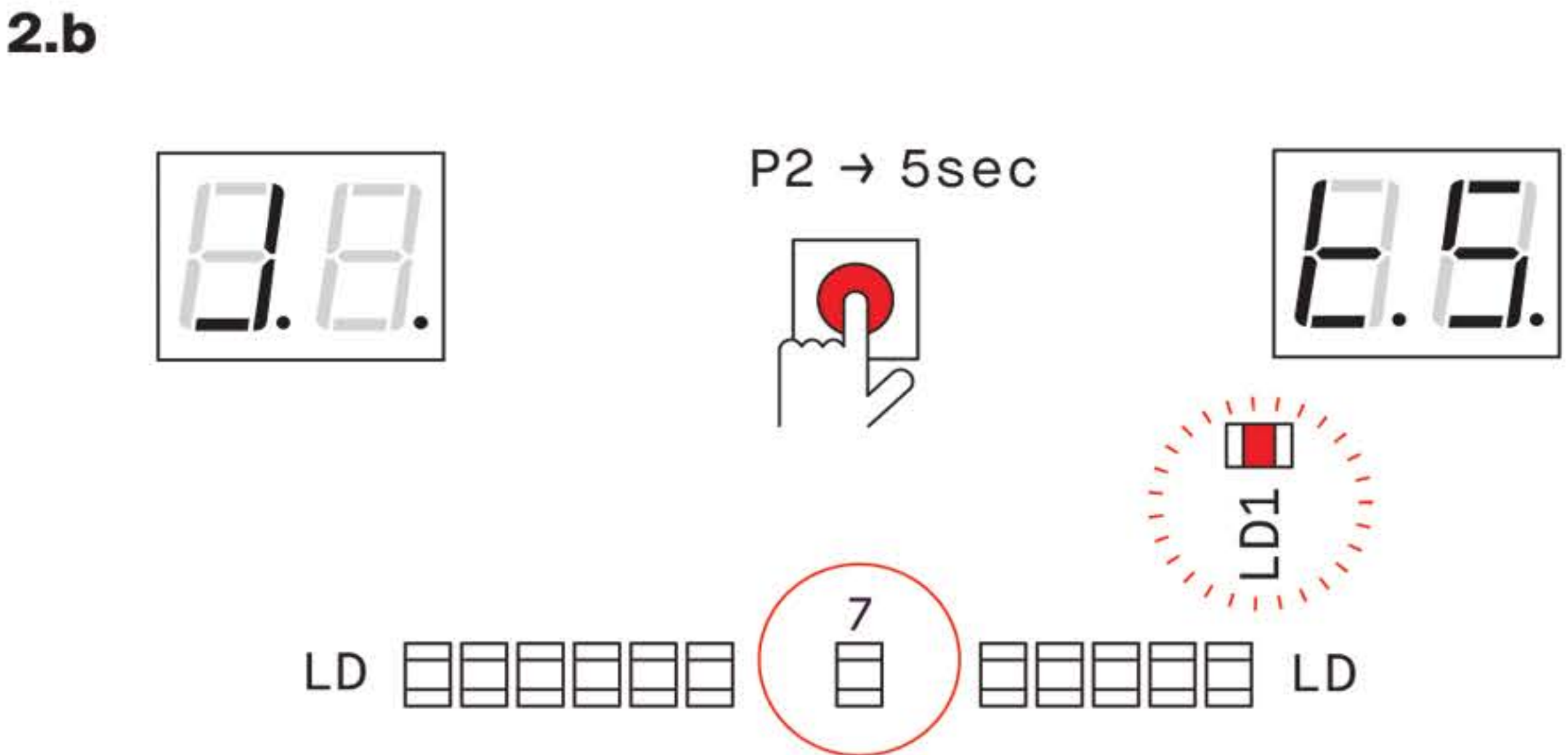
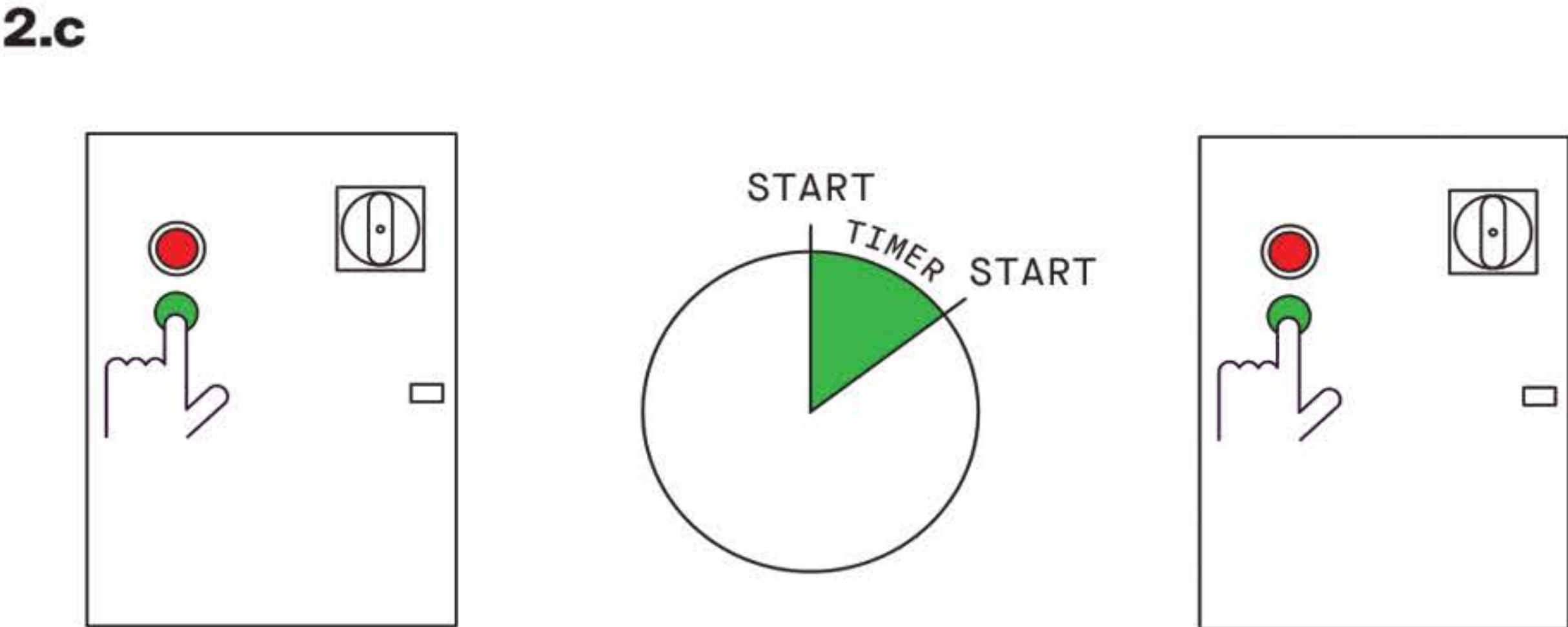
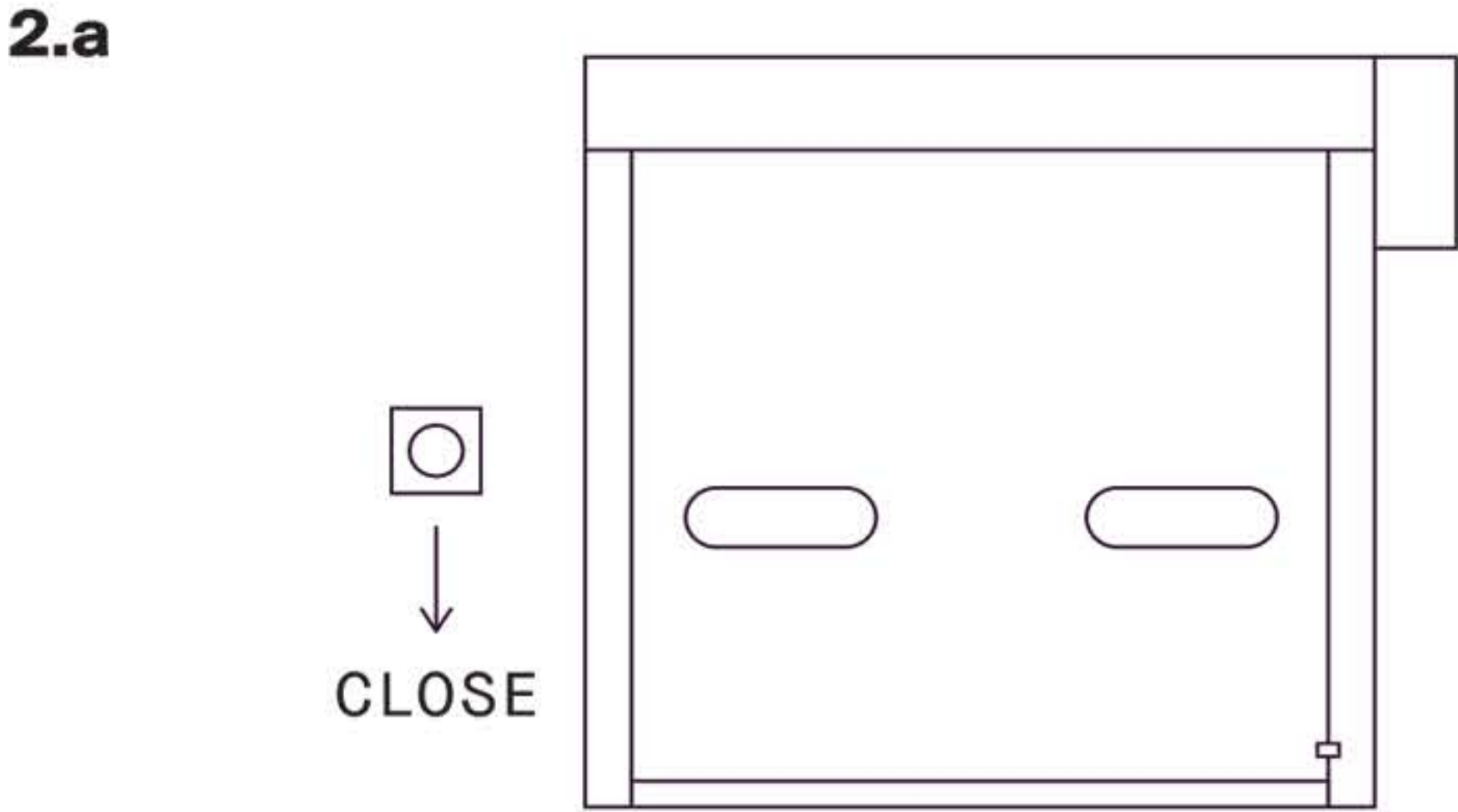
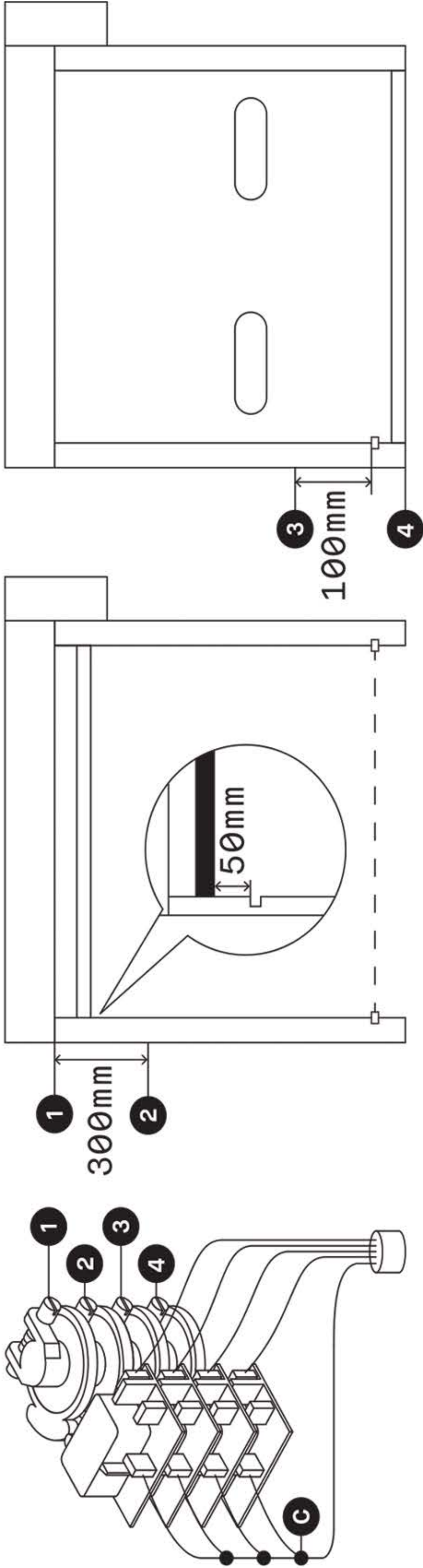
## Adjustment and programming (Encoder)



Action	Display	LD1	LD7
<b>1 Programming of the closed door position</b>			
<b>1.a</b> Drive the curtain in closed door by P3	Jc	OFF	OFF
<b>1.b</b> Check the photocell engagement by led LD7 OFF	J	OFF	OFF
Push P2 for 5 second until LD1 flashes quickly	tE	Flashing	OFF
<b>2 Programming of the opened door position and break time</b>			
<b>2.a</b> Drive the curtain in opened door by P1. Check the bottom edge, it must be at least 50mm over the reinserting cut into the guide	Jo	Flashing	OFF
<b>2.b</b> Push P2 (impulsive)	tE	Flashing	ON
Wait the needed break time	tE	Flashing	ON
Push P2 (impulsive) giving the closing command	tE	Flashing	ON
The door will close up to the photocell engagement	C	Flashing	OFF
Give a command OPEN/START to check the complete cycle	OP		

# DB1/DB2 (EXTERNAL BOARD)

## Adjustment and programming (Limit switches)



Ref.	Wires color	Description	Terminal	Led
1	Green	Opened door	19	LD3
2	White	Slowing in opening	17	LD5
3	Grey	Slowing in closing	18	LD4
4	Brown	Closed door	20	LD2
C	Yellow	Common (+12V)	15	-

**1 Limit switches adjustment**

Check the right door movement (up/down) and in case correct by the phase sequence (U V W)  
Adjust the cams position as per the indication into the drawing

**2 Programming the break time**

**2.a** Drive the door at closed door by P3

**2.b** Push P2 for 5 seconds until LD1 flashes quickly

**2.c** Push Start to open the door

Check the bottom edge, it must be at least 50mm over the reinserting cut into the guide

Wait the needed break time

Push Start to close

The door close completely

Give a command OPEN/START to check the complete cycle

# DB1/DB2 (EXTERNAL BOARD)

## Interlock

By the LCD programmer:

- Go into the menu inputs status display
- Modify the parameter remote start terminal from 00 to 19

To have the automatic command of the second door:

- Go into the menu system parameters setup
- Modify the parameter running option adding 80.000 (e.g. if the value was 4200→84200)

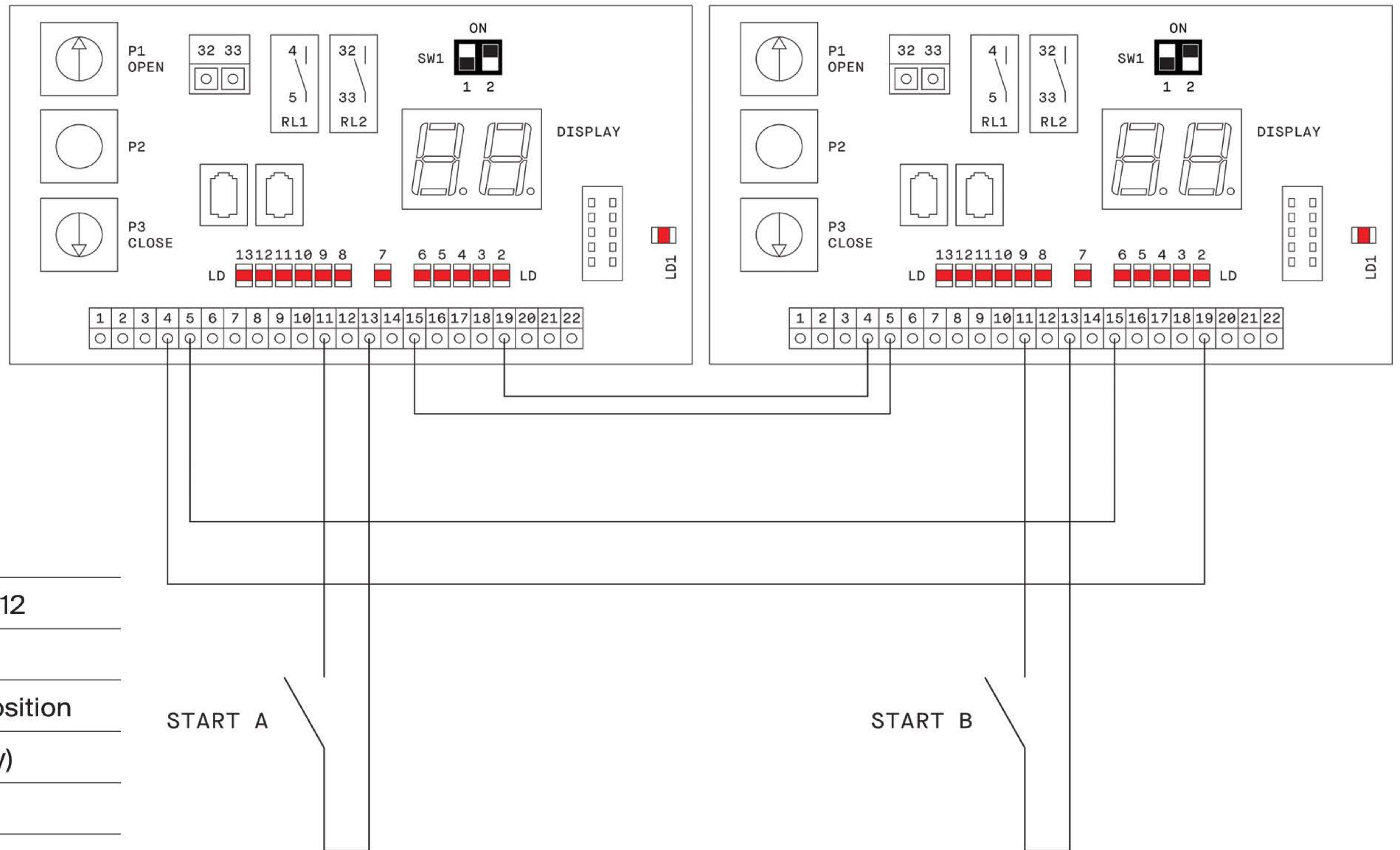
## Pedestrian opening adjustment

### A Pedestrian opening with Encoder system

- Connect the pedestrian command between the terminals 13-12
- Drive the door in closed door position by P3
- Open the door by P1 up to the needed pedestrian passage position
- Start the programming, pushing P2 for 5s (LD1 flashes quickly)
- Give a command for pedestrian opening (13-12)
- Wait the needed break time
- Give a command for pedestrian passage (13-12) to save the timing

### B Pedestrian opening with limit switches system

- Connect the pedestrian command between the terminals 13-12
- Drive the door in closed door position by P1
- Start the programming pushing P2 for 5 s (LD2 flashes quickly)
- Give a command for pedestrian opening (13-12)
- At the needed position give a pedestrian opening command (13-12)
- Wait the needed break time
- Give a command for pedestrian passage (13-12) to save the timing



# DB1/DB2 (EXTERNAL BOARD)

## Alarms list\*

\* THE FOLLOWING LIST IS VALID FROM FIRMWARE VERSION 1.15.0303,  
FOR EARLIER ISSUES SEE PREVIOUS INSTRUCTIONS MANUALS.

AL display	Alarm description	Solution
St	Stop Engaged	Disengage the Stop push button (red mushroom)
HH	Incorrect encoder alignment	Make the position alignment
00 01	Short circuit on the control board	Check or replace the control board
00 02	Failure initial setup	Check or replace the control board
00 03	Failure to main capacitor charging	Check or replace the control board
00 04	Over-temperature threshold exceeded	Check motor absorptions and duty cycle
00 05	Instant current threshold exceeded	Check motor absorptions and parameters adjustment
00 11	Overload current (brake/flashing lamp)	Check brake/flashing lamp and relevant connections
00 12	Overload current (motor)	Check motor current, winding and relevant connections
00 50	Brake circuit opened, current = 0	Check brake, connections or manual rod safety switch
00 71	Opening slowdown limit missing	Move the door by jog button P1-P3 (encoder) or check the limit switches
0072	Closing slowdown limit missing	
00 73	Jog buttons ON together	Check push button P1 and P3
00 74	Curtain jamming failure	Check curtain sliding and adjustment of jamming sensor
00 75	Slowing limit switch engaged together	Check slowing limit switches
00 76	Main supply undervoltage	Check main supply voltage and line section dimension
00 77	Stop engaged	Disengage the STOP push button (red mushroom)
00 78	Manual rod safety switch engaged	Check the manual rod safety switch
00 79	Safety edge engaged	Check the devices aand relevant connection
00 80	System failure	Update the firmware or replace the electronic board
00 87	Over voltage during closing movement	Decrease the speed in closing (frequency)
00 88	Motor over-current	Check value RUN MODE = 60, remake alignment
00 89	Brake or flashing lamp over-current	Check value RUN MODE = 60, remake alignment
00 8B	Brake or flashing lamp over-current	Check value RUN MODE = 60, remake alignment
00 8D	Over-temperature	Decrease the duty cycle, increase the breaking time
00 8F	System failure	Update the firmware or replace the electronic board
00 91	System failure	Update the firmware or replace the electronic board
01 00	Gear box reduction ratio incoherent	Gear box incorrect or encoder resolution problem
01 02	Encoder connection failure	Check the encoder and its connections
01 03	Alignment started with photocell not engaged	Check the photocell at closed curtain (led LD7 OFF)
01 05	Photocell disengaged at once in alignment	Check eventual disturb or photocell low positioned
01 08	Opened position set with engaged photocell	Remake the alignment
01 09	Opened position too low	Remake the alignment
01 0D	Pedestrian opening position = 0	Remake the alignment

# DB1/DB2 (EXTERNAL BOARD)

## Alarms list\*

\* THE FOLLOWING LIST IS VALID FROM FIRMWARE VERSION 1.15.0303, FOR EARLIER ISSUES SEE PREVIOUS INSTRUCTIONS MANUALS.

AL display	Alarm description	Solution
01 0E	Encoder counting failure or motor stalling	Check the functioning of encoder, motor and brake (decrease speed or increase acceler. ramp open)
01 0F	Photocell trouble during alignment	Check the photocell functioning (led LD7)
01 10	Photocell failure during alignment	Check the photocell functioning (led LD7)
01 14	Remote keyboard disconnected (model Easy)	Check the keyboard connection and led status
01 15	Encoder signals failure	Check encoder and connections (led LD4 - LD5)
01 16	Wrong motor parameters	Check the motor parameters matching the data on the label

## Running options

TO SET THE OPTIONS IN USE BY THE PROGRAMMER ENTER THE MENU SETTING PARAMETERS AND ENTER THE VALUE OF THE REQUEST PARAMETER RUNNING OPTIONS. THE FACTORY DEFAULT SETTING = 00000200. IN CASE OF ENCODER SYSTEM AFTER THE FIRST JOG MOVEMENT THE VALUE BECAME AUTOMATICALLY = 00004200.

Value	Description	Remarks
00000002	Enables UPS (opt) for manual opening in case of supply break-down	Automatic opening after a presetted time
00000004	Enables UPS manual opening by supply break-down	Opening after a START command
00000008	The Start make command CLOSE	Disables the START as command OPEN
00000010	Enables the cycle step by step Pedestrian start	The Start command open/close, during the closing Start give stop to the motion
00000020	Enables the time after a transit	If option 20 disabled only the breaking time
00000040	Move pedestrian opening to command OPEN (8)	To be used in case of pedestrian + UPS
00000100	Disables brake current control before the starting	
00000200	Disables timeout and incherences controls	Default setting
00000400	The pedestrian command set OPEN, but not CLOSE	Only break time reset
00001000	Anti-icing A	Start each 15 minutes
00002000	Anti-icing B	Start each 60 minutes
00003000	Anti-icing C	Adjustable timer in seconds by the time after transit from the photocell
00004000	Encoder automatically recognized by the first jog movement	Automatic setting
00080000	Enables interlocking	Connect the doors as explained at page 12
00100000	Disables automatic alignment after a supply break-down	To get the alignment give a Start
00200000	Enable the motor warming by current	To be used only at low temperatures
00400000	Enables relay was opening door pedestrian	Disable the relay in total opening
01000000	The external control (8) active only during closure	Input 8 disabled at closed door
10000000	Increase engine torque in closing	For use with counterweight

EXAMPLE: to activate the anti-ICING A function add +1000 to the number in OPTION IN USE, if the existing number is 4200 (deactivate timeout + encoder control), add +1000: the final value will become 5200

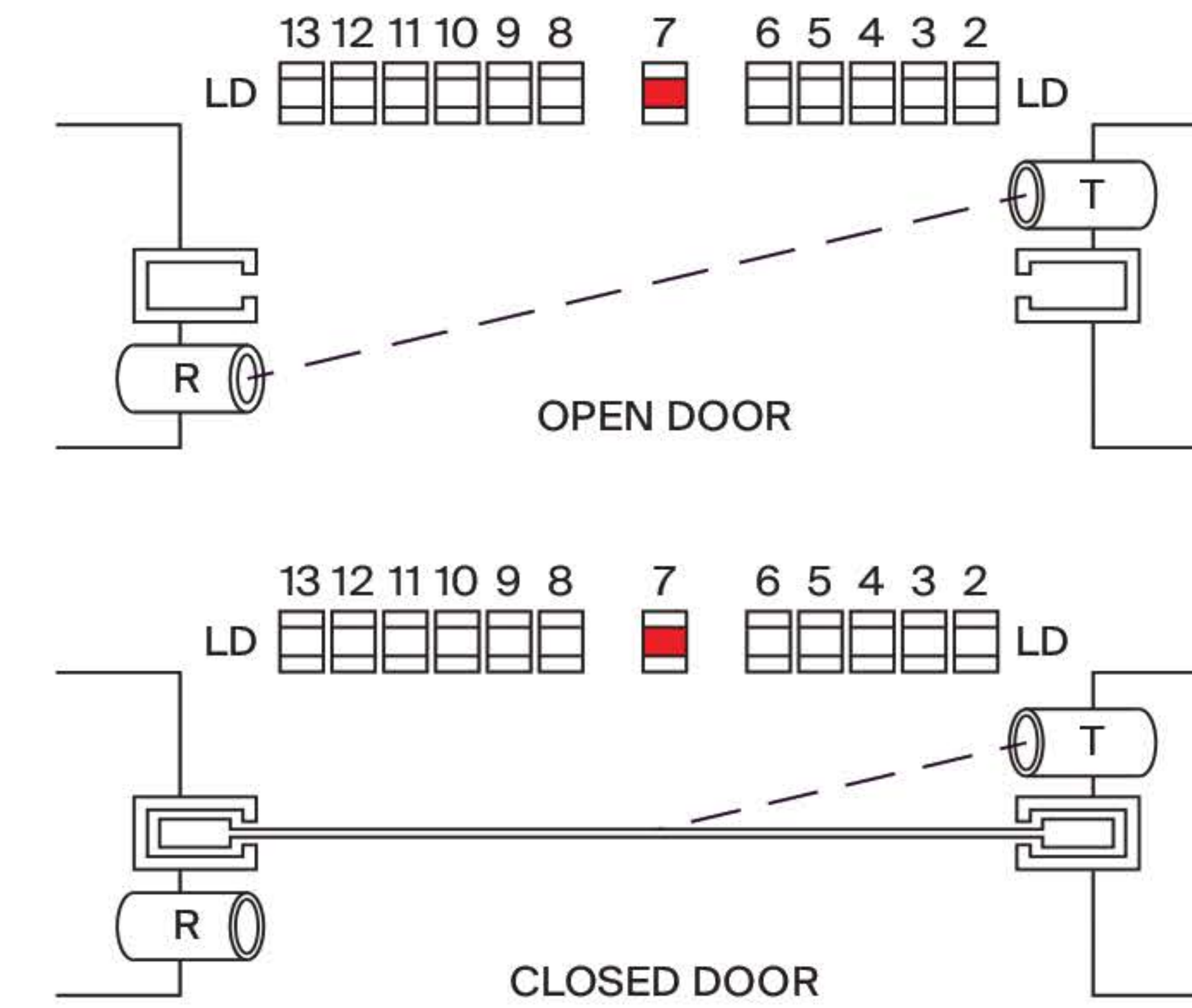
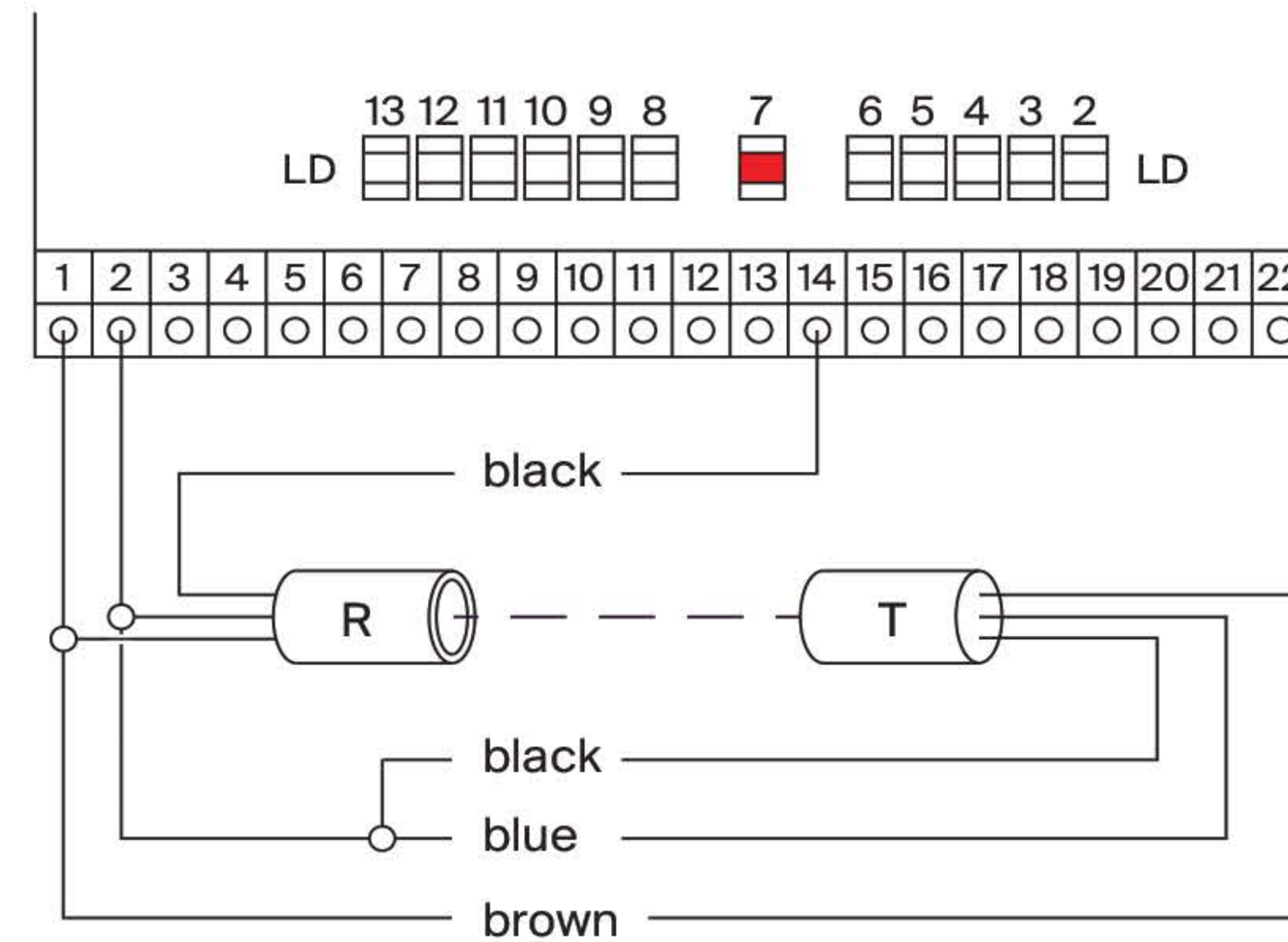


# SAFETY DEVICES

## Infrared photocell

The photocell sensors must be fitted as per the drawing, so when the curtain is closed the photocell will be engaged. Signalling by LD7.

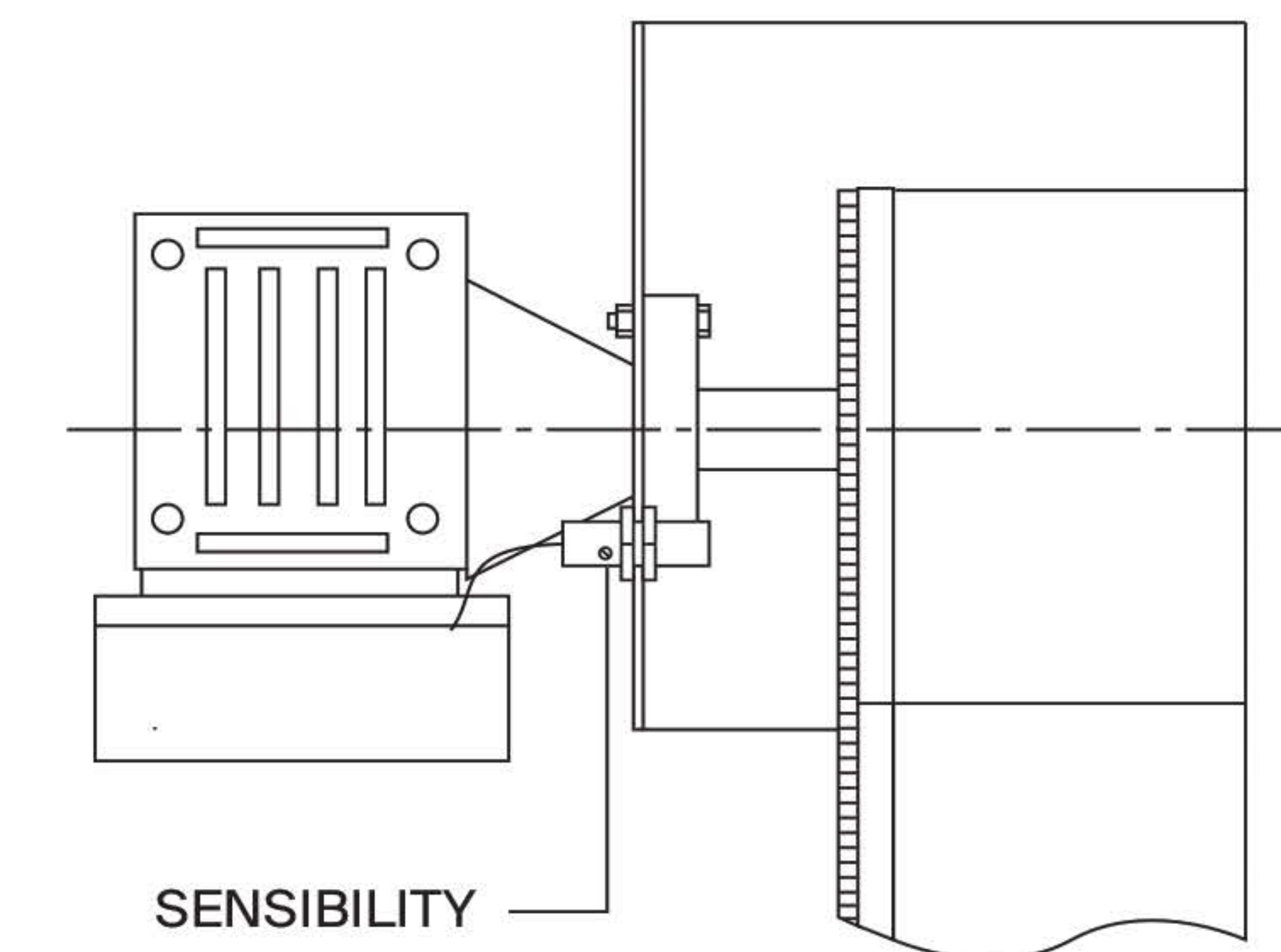
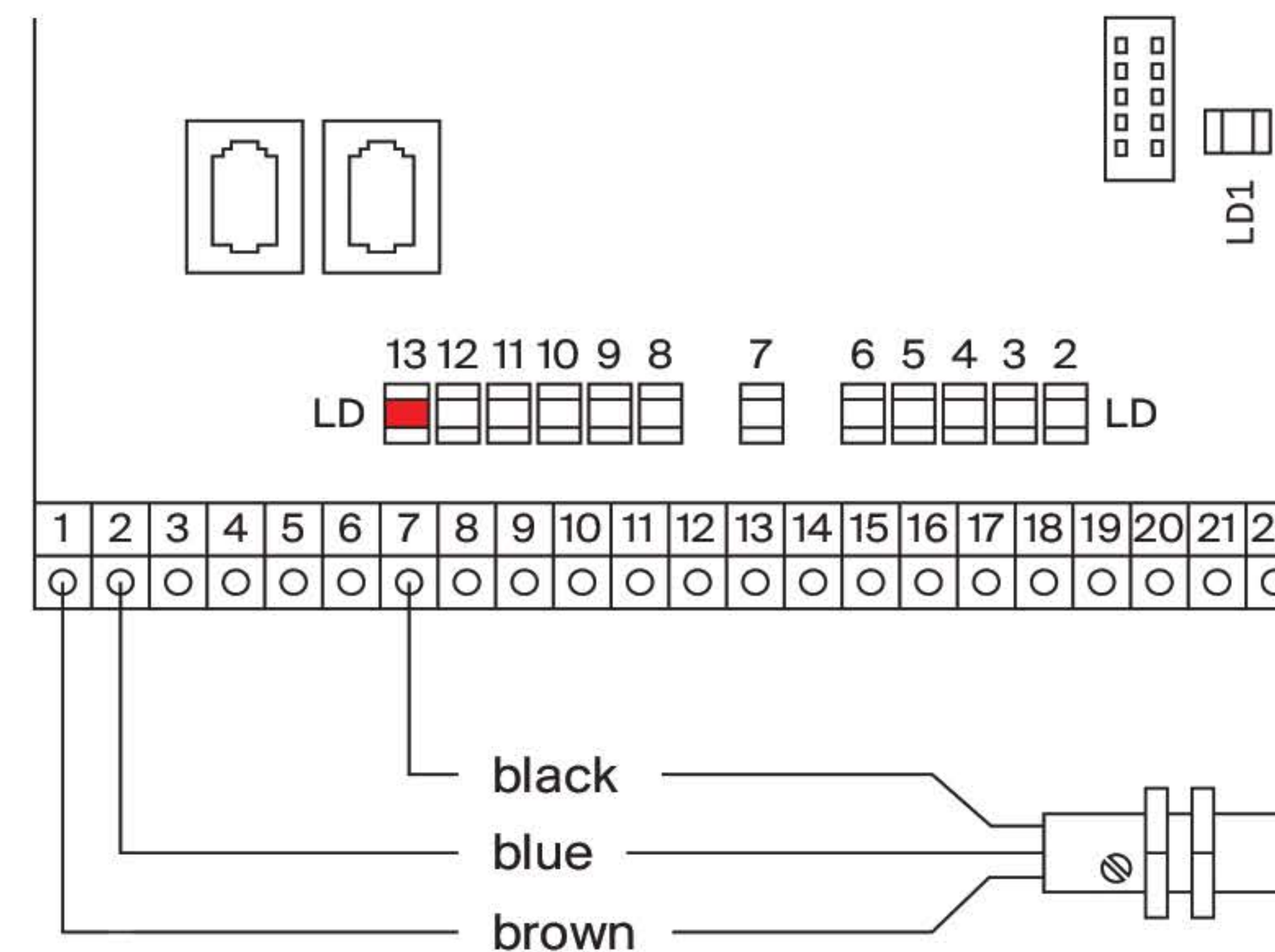
**⚠ ATTENTION**  
In case of Encoder system, the photocell makes the alignment. It cannot be disconnected. In this case the I/R beam goes across the curtain.



## Curtain jamming sensor (optional)

The curtain jamming sensor detects the mis-unrolling of the curtaining in closing. Adjust the positioning into the oval slot and the sensibility by the relevant trimmer. Signaling by LD13.

**⚠ ATTENTION**  
If the sensor isn't seen, put a jumper 7, 13.



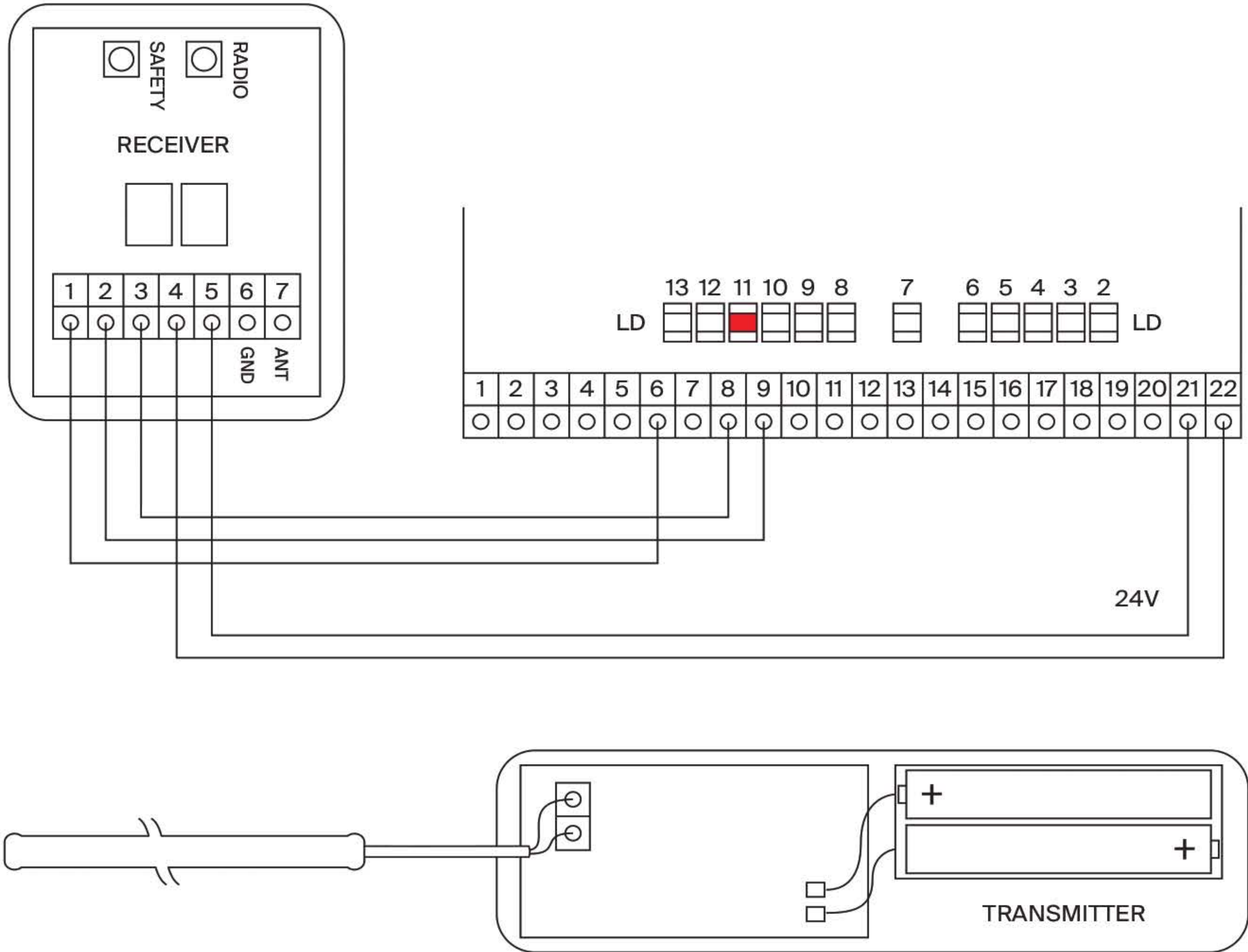
# SAFETY DEVICES

## Wire-less safety edge

- 1 Supply the receiver (green led ON) and insert the batteries into the transmitter.
- 2 The pre-coupled system is active. Test the correct functioning pushing the edge.

If necessary program the transmission:

- a Push the button safety on the receiver.  
The memory remains open for 10 seconds (red led ON).
- b Push the safety bar to memorize the transmitter code.
- c The red led flash for 3seconds for right programming. Insert the transmitter into the bottom edge pocket.  
In case of low battery, green led flashes.



## USE INSTRUCTIONS

### GENERAL SAFETY PRECAUTION

This manual is an integral and essential part of the product and must be delivered to the final user. The owner must keep this document and pass on to subsequent users of the system. The automation in question is a door with vertical movement, will be used for the purposes for which it was designed. Any other use is considered improper and dangerous.

The manufacturer is not responsible for damage caused by improper, incorrect or unreasonable use.

### USE PRECAUTIONS

Maintenance, adjustment and repair must be performed only by trained and authorized personnel.

- Do not enter the operating range of the door during movement.
- In case of breakdown or malfunction switch off the main switch.
- Each automation is accompanied by “Installation and maintenance”, in which among other things shows the periodical maintenance plan, in particular, it is recommended to check all the safety devices.

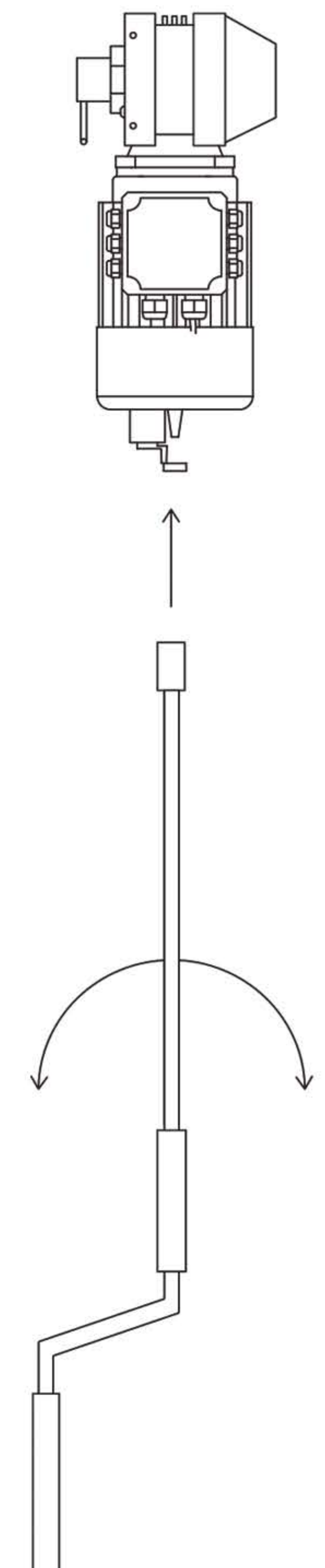
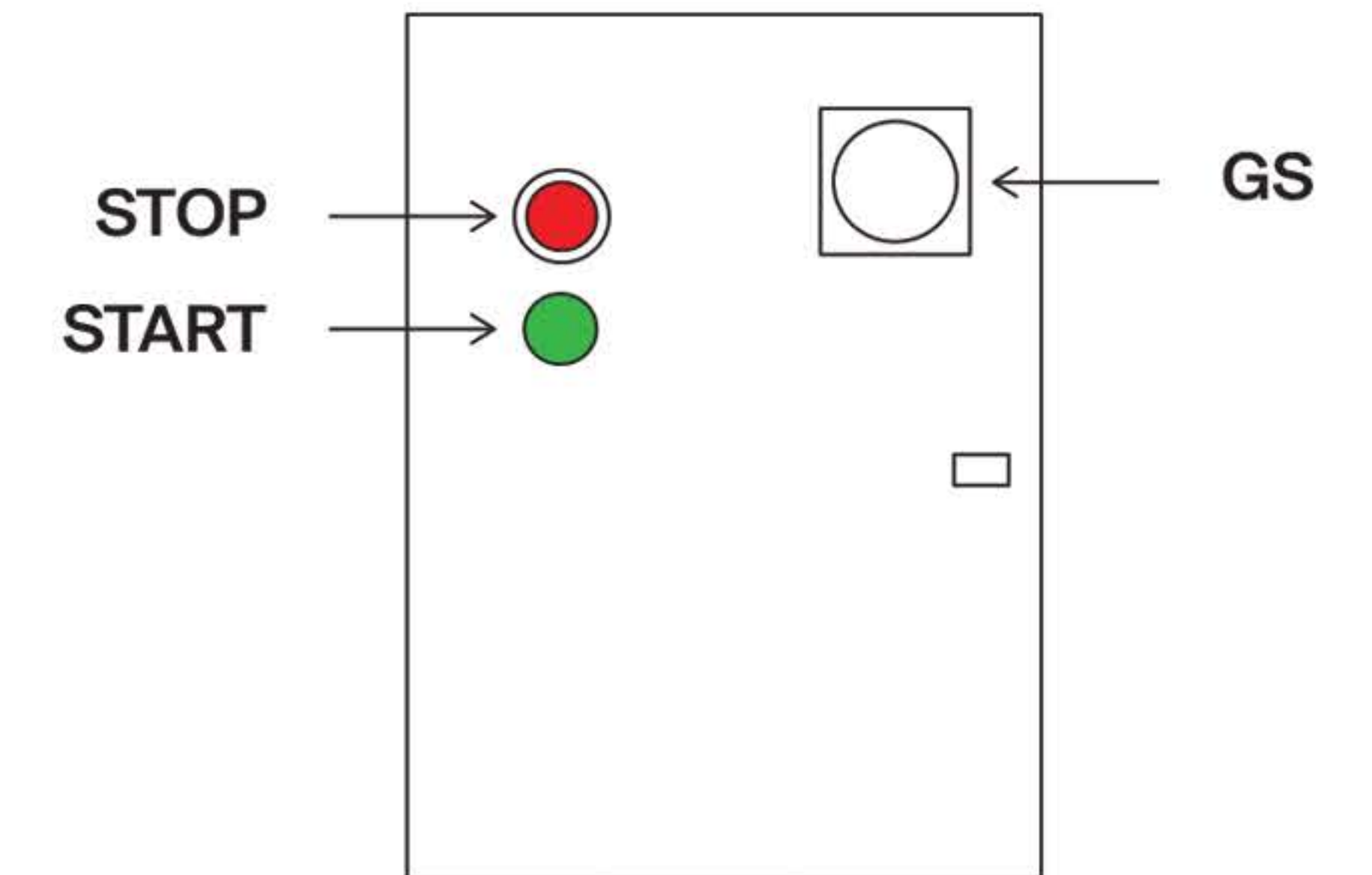
### CONTROLS ON THE CONTROL PANEL

- GS: General switch of the main supply, disconnects the power equipment. Operate only in case of need for maintenance or repair.
- Stop: Stop immediately each movement of the drive Button with restraint: turn to the right to free.
- Start: Opening control and start the cycle of automatic door.

### MANUAL OPERATION

To operate the curtain in case of power failure or breakdown:

- Switch the GS to disconnect the main supply.
- Insert the rod coupling in the lower side of the motor, thereby actuating the micro switch that prevents electrical operation of the door.
- Turn the handle until you reach the desired position of the curtain.



# MAINTENANCE INSTRUCTIONS

Operations to be carried out every six months during the maintenance inspections:

## **Safety devices:**

- Check the proper functioning of the safety edge (where provided).
- Check the functioning of the curtain jamming sensor (where provided).
- Check the functioning of the safety photocell.

## **Automation:**

- Check the functioning of all the control devices installed (push buttons, radar, magnetic loop etc.).
- Check the electric connections on plugs and terminals, verify that there are no water leaks or dust.
- Check the wear of the electrical components and their insulation.

## **Side guides, curtain and frame:**

- Check the wear of the side guides. Do not lubricate: guides and zippers are made of self-lubricating materials. The use of oil, grease or other lubricants creates with time the jam of the sliding.
- Check the tension of the curtain (see instructions on p23)
- Check tightness of the coupling screws of the uprights with transom.
- Check the anchor of the door to the building/structure

## **Motorization:**

- Check the tightness of the motor fitting.
- Check the operation of the encoder or limit switches (check the wear of the cams).
- Check the wear of the brake disc and verify the braking efficiency.

## **Winding barrel:**

- Check the fixing of the rolling bearings.
- Check the bearing lubrication.
- Check the alignment of the winding barrel.



*It is necessary to perform periodic inspections by qualified technicians. All operations must be carried out in full compliance with safety regulations, defining and highlighting the area of operations. Before any operation disconnect the electrical supply line by means of the main switch and prevent it can be restored by third persons.*

## MAXZIP PARTS LIST

Item Number	Part #	MaxZip Item	Quantity	Item Number	Part #	MaxZip Item	Quantity
1	Z-001	UL 400V control board	1	22	Z-022	Encoder grub screw	1
2	Z-002	Motor UL 1,5 kw	1	23	Z-023	Rolling shaft pins ring	2
3	Z-003	Gearbox 1:15	1	24	Z-024	Rolling shaft pins tabs	3
4	Z-004	Gearbox "omega" fixing plate	1	25	Z-025	Ball bearing	2
5	Z-005	Release lever micro switch	1	26	Z-026	Bolt M10x16 with nuts	20
6	Z-006	Release bar	1	27	Z-027	Bolts M10x30 with nuts	10
7	Z-007	Spider 1 complete cabling	1	28	Z-028	M10 caged nut	20
8	Z-008	Spider 2 complete cabling	1	29	Z-029	Self locking nut M10	10
9	Z-009	Encoder	1	30	Z-030	Screw/flat washer/sprir	20
10	Z-010	Photocell BP100	1	31	Z-031	Polyzen 4 m bar	1
11	Z-011	Curtain jamming sensor	1	32	Z-032	Polyzen 5 m bar	1
12	Z-012	Transom side plate	2	33	Z-033	Polyzen 6 m bar	1
13	Z-013	L Fix fixing brackets	8	34	Z-034	Brush 40 mm x 2500 mm	1
14	Z-014	Inner plate for L Fix bracket	10	35	Z-035	Curtain	1
15	Z-015	Photocell support	1	36	Z-036	Labels	1
16	Z-016	Left hand motor cover inner plate	1	37	Z-037	Motor cable	4
17	Z-017	Right hand motor cover inner plate	1	38	Z-038	Transom cover alu prof	Specify Length
18	Z-018	Motor cover front plate	1	39	Z-039	Transom clean alu prof	Specify Length
19	Z-019	Motor cover external plate	1	40	Z-040	Transom back alu profile	Specify Length
20	Z-020	Rolling shaft idle pin	1	41	Z-041	Transom alu rolling shaft	Specify Length
21	Z-021	Rolling shaft motor pin	1	42	Z-042	Zipper	Specify Length