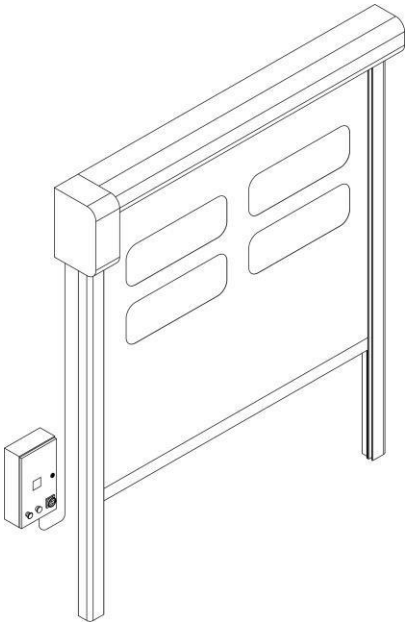
ENG

INSTALLATION, USE AND MAINTENANCE MANUAL



HIGH-SPEED DOOR

Models: **Dynamicroll®**
Dynamicroll® Food Inox
Dynamicroll® 90
Dynamicroll® Low Headroom

CE

BMP EUROPE Srl
Strada della Freisa, 1
14019 – Villanova d'Asti (AT) ITALY

V. 25/7

INDEX

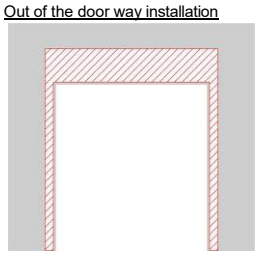
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1.3. Safety lights curtain fixing..... p. 7
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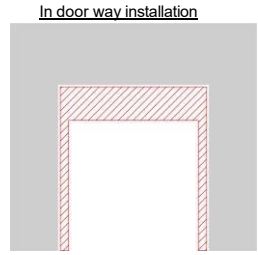
ANNEX

ANNEX A – MAINTENANCE BOOK..... p. 22

1. Installation

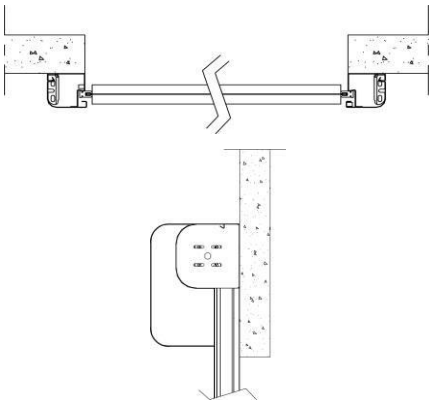
Before proceeding with the installation operations, it is necessary to check the dimensions of the compartment with respect to the dimensions of the door. Check for any protrusions.





Structure

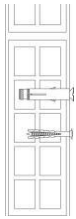
Size door



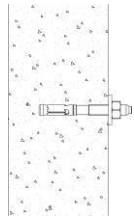
A Support frame (ex. 120x60)

1.1. Fixing

Fixing examples:



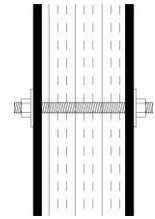
On brick



On concrete



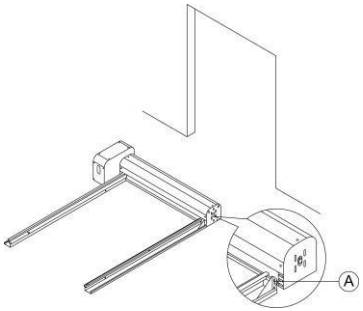
On iron



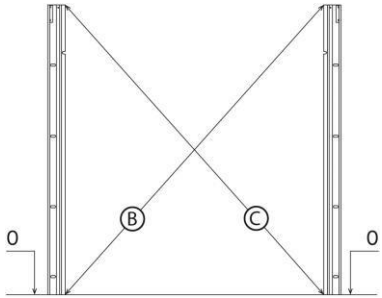
On isolated plasterboard / insulated panel

Before installing the door, check that the floor, the existing walls or the support structure have the necessary strength requirements, suitable to support the weight of the door, also considering the dynamic thrusts due to normal operation and to any impacts. Possibly make the necessary structural changes that must be made before giving rise to the installation.

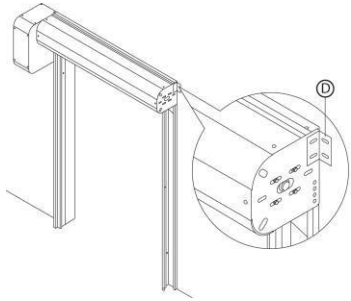
MODELS (Dynamicroll® - Dynamicroll® Food Inox - Dynamicroll® 90)



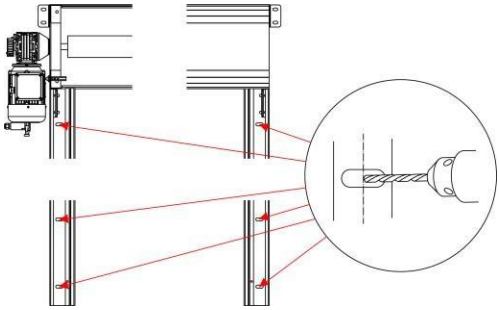
Fasten the columns to the top heading using the appropriate brackets (detail A). When the doors are larger than 4 × 4 m, temporarily fix the columns to the structure and then lift the top heading and connect it to the columns.



Make sure that the support surface is planar; check the geometry of the columns and the horizontality of the top heading and proceed with the fixing as described below. **(B=C ± 5mm)**

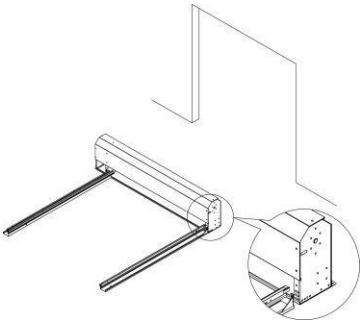


Complete the fixing with the brackets provided (detail D) and with any additional anchors where necessary. With L> 4 m support the top heading at least every 2 m.

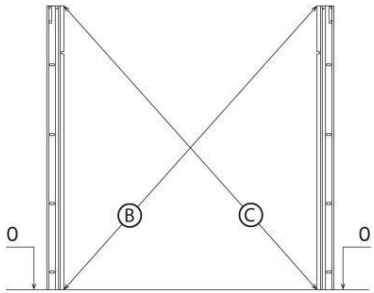


Drill the holes on the buttonhole axis, to then make the appropriate final adjustments.

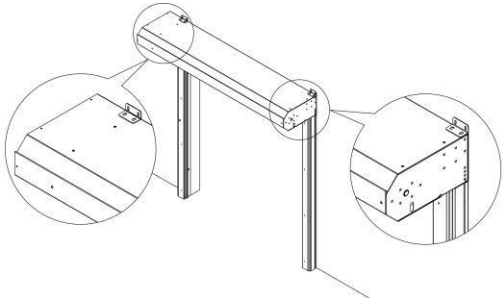
MODEL (Dynamicroll® Low Headroom)



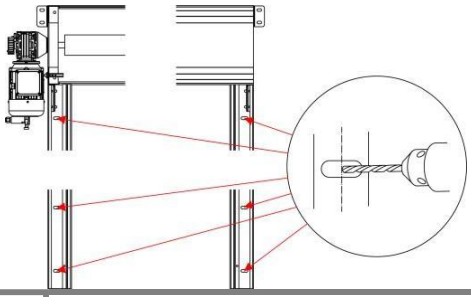
Fasten the columns to the top heading using the appropriate brackets (detail A). When the doors are larger than 4 × 4 m, temporarily fix the columns to the structure and then lift the top heading and connect it to the columns.



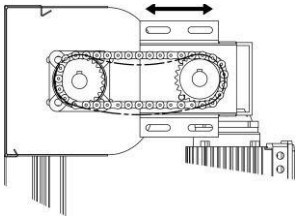
Make sure that the support surface is planar; check the geometry of the columns and the horizontality of the top heading and proceed with the fixing as described below. **(B=C ± 5mm)**



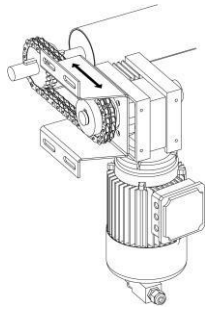
Complete the fixing with the brackets provided (detail D) and with any additional anchors where necessary. With L> 4 m support the top heading at least every 2 m.



Drill the holes on the buttonhole axis, to then make the appropriate final adjustments.

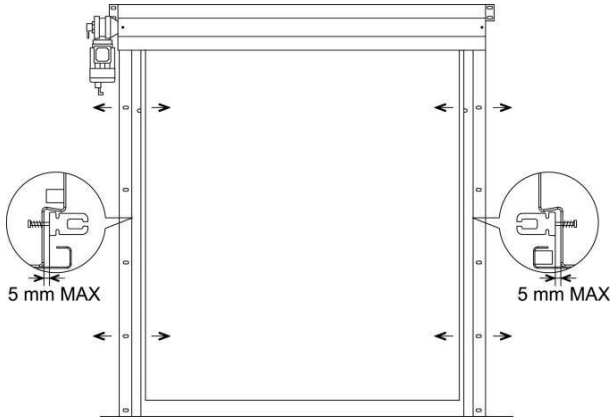


CAUTION



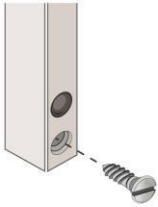
In the case of front motor (optional), check that the chain is correctly tensioned, if necessary, act on the gearmotor fixing plate.

1.2. Curtain tension



Check the correct tensioning of the curtain, and correct if necessary, by acting on the two lateral guides, then fix the columns definitively. If the curtain does not slide or slide with difficulty, adjusting the compression of the springs decreases the tension of the curtain, as previously described.

1.2. Safety light curtain fixing



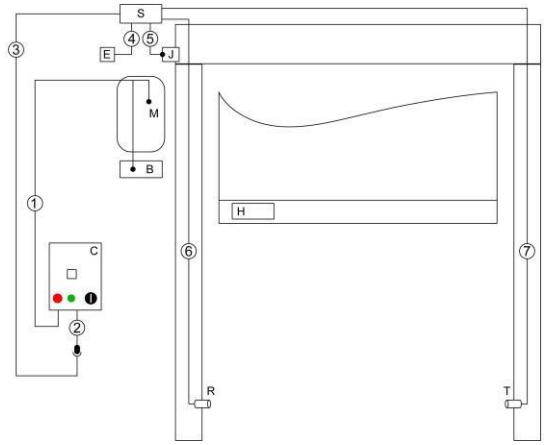
Front mounting - M 3,5 x 30 mm screw (use only supplied screws)



Plan view – safety light curtain installation

If the door is equipped with safety light curtain, these are already installed on the columns.

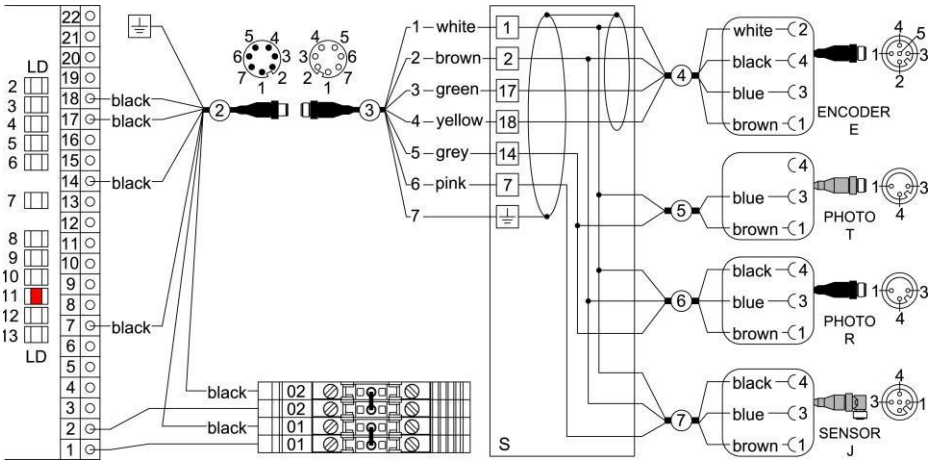
1.3. Electrical connections [ENCODER + PHOTOCELLS (SPIDER CABLE)]



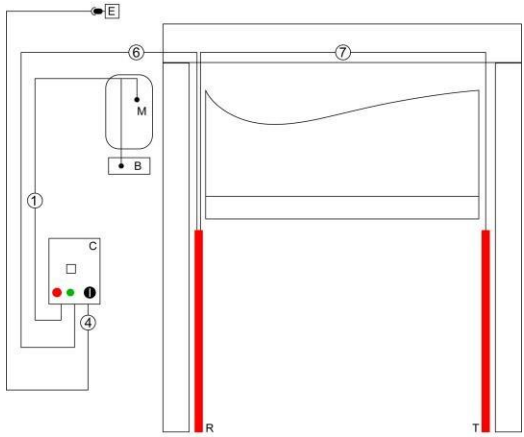
C Control panel
M Three-phase motor
S Signals distributor connection *Spider*
B Electro-brake
E Encoder
J Curtain top sensor
R Infrared photocell receiver
T Infrared photocell transmitter
H Wireless safety edge transmitter

	Wiring	Sections
1	Motor and brake supply cable	4G x 1,5 mm² + 2 x 0,5 mm²
2	Control panel / Mobile connector cable	7 x 0,5 mm²
3	Mobile connector / Distribution connection *Spider*	7 x 0,34 mm²
4	Encoder cable	4 x 0,34 mm²
5	Curtain top sensor cable	3 x 0,34 mm²
6	Photocell receiver cable	3 x 0,34 mm²
7	Photocell transmitter cable	2 x 0,34 mm²

Spider cable connections detail



1.4. Electrical connections [ENCODER + SAFETY LIGHT CURTAIN]

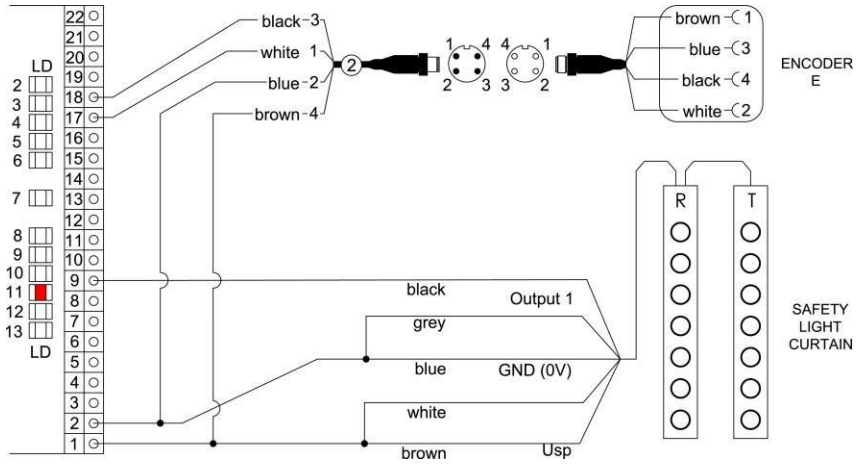


Devices list

C	Control panel	E	Encoder
M	Three-phase motor	R	Safety light curtain receiver
B	Electro-brake	T	Safety light curtain transmitter

Wiring		Sections
1	Motor and brake supply cable	4G x 1,5 mm^2 + 2 x 0,5 mm^2
4	Encoder cable	4 x 0,34 mm^2
6	Safety light curtain receiver cable	6 x 0,34 mm^2
7	Safety light curtain transmitter cable	4 x 0,34 mm^2

Encoder cable connections + safety light curtain detail



1.5. Electrical connections [ACCESSORIES]

Opening laser TOF/SPOT



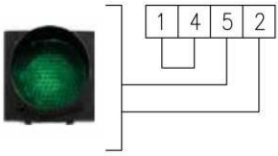
Microwave radar_1



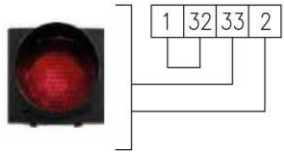
Radar a microonde _2



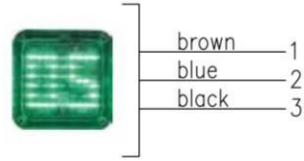
Traffic light Green: closed door Red: open door



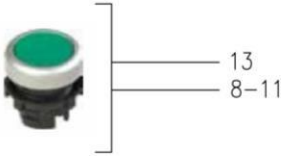
Traffic light Green: open door Red: closed door



LED Traffic light



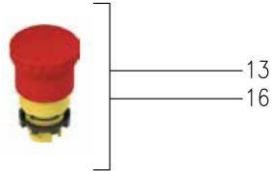
"Open" green button



"Open" black button



Retaining "stop" button

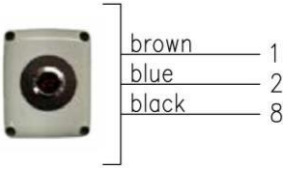


Touch button

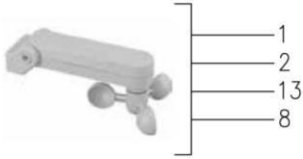
Anemometer

Radio remote control / Radio receiver

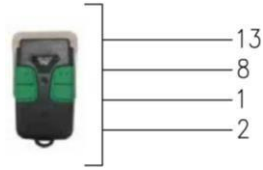
Magnetic loop

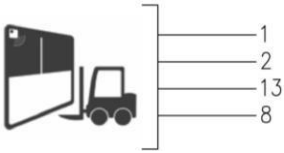


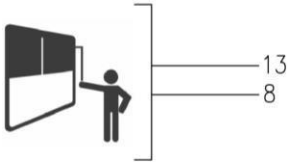
Cable pull

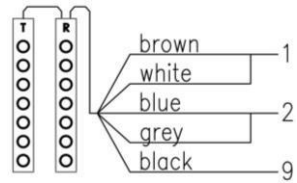


Safety light curtain





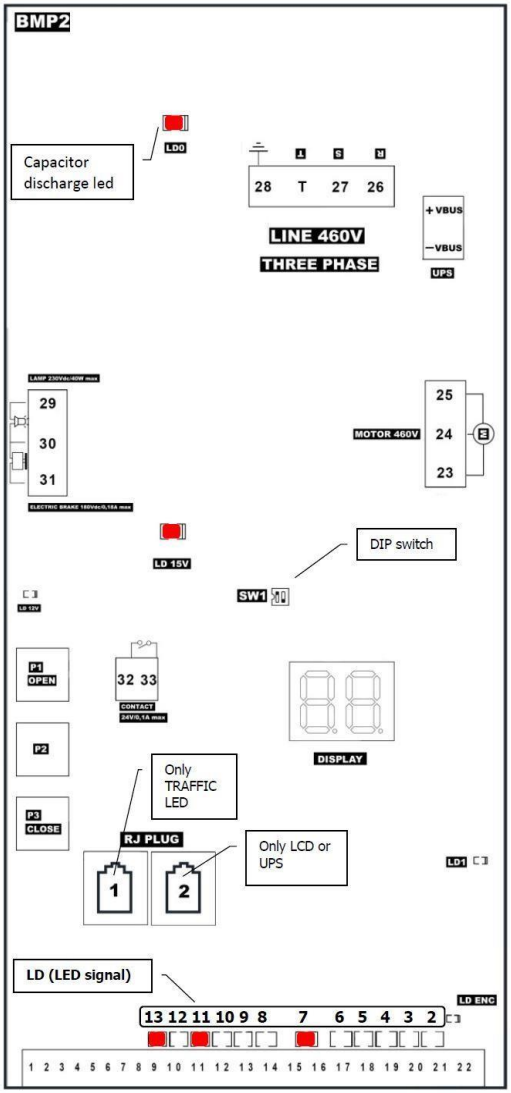




2. CONTROL BOARD

Automatic doors automation control – ABSOLUTE ENCODER
Motor:2.2 Kw 50-80 Hz
Power supply: 208 – 460 V ± 10% 50/60 Hz 3 PH

2.1. Electrical power connection - Dip Switch SW1 function and LED meaning BMP2_V04/05/06



	POWER SUPPLY
26	R - 208-460V±10% 50/60Hz
27	S - 208-460V±10% 50/60Hz
T	T - 208-460V±10% 50/60Hz
28	GROUND CONNECTION
	MOTOR
25 (A) 24 (B) 23 (C)	380V: A, D, C, B — 230V: A, C, B
380V	A — RED B — BLACK C — GREEN RED BLACK GREEN
230V	A — RED — RED B — BLACK — BLACK C — GREEN — GREEN
	FLASHING LIGHT / BRAKE
29 30	FLASHING 230V (NO LED)
30 31	BRAKE 103V DC

	DIP SW1 Function	
DIP 1 OFF	BRAKE CONTROL DISABLED	
DIP1 ON	BRAKE CONTROL ACTIVATED (short circuit extra consumpion AL0051/brake open, no	
DIP2 OFF	NEGATIVE BRAKE (standard)	
DIP2 ON	POSITIVE BRAKE	

Terminal N° / LD LED N°		CONNECTION	
1		**+12Vdc (+) (COM) 1A automatic fuse in case of extra consumption or short circuit**	
2		**0 Vdc (-)**	
3		LAMP_RGB serial communication	
4 - 5		Contact close at door close, adjustable by programmer Inerlock connection	
6		+12Vdc (COM)	
7	**LD13**	Anti-jamming sensor	**N.C.**
8	**LD12**	Open - every input restart count automatic close	**N.O.**
9	**LD11**	Light barrier auto off 500mm	**N.C.**
10	**LD10**	UPS activation (10-13 - J6 UPS card)	
11	**LD9**	Start (open) (Running Options 000308 close)	**N.O.**
12	**LD8**	Pedestrian start	**N.O.**
13		+12Vdc (COM)	
14	**LD7**	Photocell - Auto off if cross during close (memorize the cross point)	**N.C.**
15		+12Vdc (COM)	
16	**LD6**	Stop	**N.C.**
17	**LD4**	**ENCODER (when ok led partially on)**	
18	**LD5**	**ENCODER (when ok led partially on)**	
19	**LD3**	Extra run - close contact during standard run if off (open) stop extra run	
20	**LD2**	Free input assignable from keypad programmer	**N.O.**
21		**+12Vdc (+) Same 1**	
22		**0 Vdc (-) Same 2**	
32-33		Contact close at door open	

CAUTION CONNECT THE NC NOT USED INPUTS TO THE COMMON INPUT (COM)

Check the encoder software version:
By framing the QR code on the FIX_03 encoder, the software version residing in the encoder will be displayed.



NOTICE Verify it is 1_7 or later

A = Check the inverter software version:



NOTICE Verify (read in the highlighted part below) that it is 02.21.3805 or later

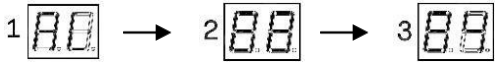
2.1. On-board key functions

Button	Action	Description
P1	Jog Open Command	Opening command. Dead Man used in the installation phase for door positioning / Internal menù scrolling.
P2	Teaching	Keeping the key pressed for 5sec, you enter learning mode (see teaching procedures) / Selection of the internal menù with STOP command (see display functions)
P3	Jog Close Command	Closing command. Dead man used in the installation phase for door positioning / Internal menù scrolling

2.2. Running option

LEVEL	VALUE	FUNCTION	NOTE
OPTIONS 1	**xxxx+2**	UPS	Activate UPS function
OPTIONS 1	**xxxx+8**	START - CLOSE	The Start input only close
OPTIONS 1	**xxxx+20**	TIME CLOSE AFTER TRANSIT IN PHOTO-CELL	Adjust time auto-close after transit. Adjustable by LCD menu M5 S10
OPTIONS 1	**xx+800**	ENCODER TIME CONTROL	Enable control count in the encoder
OPTIONS 1	**xx+3000**	DEICING	Auto-open Time adjustable in LCD menu M5 S29
OPTIONS 1	**+20.000**	WIFI INTERLOCK	WiFi interlock activated
OPTIONS 1	**+80.000**	AUTO - INTERLOCK	Connect 2 doors like schematic page 8
OPTIONS 1	**+100.000**	AUTOMATIC START	In case of blackout the door come back to close and wait new start
OPTIONS 1	**+1.000.000**	RADAR DOES NOT OPEN	Input 8 became reversing (N.O.)
OPTIONS 1	**+4.000.000**	ALARM RELAY	In case of alarm (31-32) and (4-5) get close
OPTIONS 2	**xxxx+1**	MANUAL INTERLOCK	The doors wait manual input
OPTIONS 2	**xxx+20**	SWITCH OFF START AFTER EXTRA CURRENT	Normally the door in automatic after extra current restart in automatic
OPTIONS 2	**xx+100**	EXTRA LIMIT OPEN	T.19 - Must be close all cycle. In case extra open get off and stop open
OPTIONS 2	**xx+200**	SPIRAL	Spiral door setting
OPTIONS 3	**xxx+2**	UPS CLOSE	In case of blackout at door open the door close - No movi-ment in door close
OPTIONS 3	**xxx+8**	UPS OPEN CLOSE	UPS manual mode (START open/close)
OPTIONS 3	**xxx+10**	RADAR "CAPTURE"	Enables recognition of the "CAPTURE" radar wired on pedestrian start entrance 12

3. ALARMS



Screen 1 Screen 2 Screen 3

If the board detects malfunctions or incorrect connections in the system, the characters "AL" + 4 digits shown below appear on the display on the card and on the external programmer:

ALARM	DESCRIPTION	SOLUTION
0004	Electronic board failure	Replace the card
0005	Electronic board failure	Replace the card
0011	STOP error sequence	Disconnect the 30-31 and 29-30 - Check resistance brake line, must be between 150ohm and 3Kohm, if the resistance does not match, replace brake. If match, change the card. - Check resistance to ground connection, if it's not OL (opened) check wiring or replace brake - Check resistance flashing, without lamp must be OL (opened).
0012	Short-circuit motor	Disconnect motor U-V-W and check resistance between U-V, U-W and V-W phase on motor: - For 0,75KW motor type must be between 7,8ohm and 23ohm - For 1,5KW motor type must be between 3,4ohm and 9,5ohm - For 2,2KW motor type must be between 2,5ohm and 6ohm - Check resistance between motor phases and ground connection, must be OL(opened) - If the value don't match replace the motor. - If the value match, replace the card.
0013 a, b, c, d, e	Absolute encoder position	Make new learning or replace the encoder
0032	Overload	- Decrease speed open from 60 to 40 MAX (try intermediate setting) - Increase acceleration ramp from 1 to 3 MAX (try intermediate setting)
0050	Brake interrupted	- Check safety micro switch below motor - Check the connection - Check brake resistance If brake resistance is ok (see **0011** solution) replace the card.
0051	Brake overload	- Check brake resistance (see **0011** solution) - Check cable from card to motor, must be 0ohm - Check resistance to the ground connection, must be OL (opened) If all parameter are ok, replace card
0052	Position underground beyond	- Make correct learning - Check magnet in the encoder - Replace encoder
0053	Position above open beyond	Same **0052** solution
0055	UPS version not compatible	Replace UPS card
0056	Invalid learning	Repeat the door learning sequence
0070	Invalid learning	Repeat the door learning sequence
0074	Anti-jam activation	Information about, during close, the jamming system get active (terminal 7)
0076	Power supply fault	- Check power line during opening (the motor must run) - Check cable power, minimum section wire need be 4mm for 230V and 2,5mm for 400V - Reduce speed open from 60 to 40 - Reduce acceleration ramp open

0079	Safety edge activation	Information about, during close, the terminal 9 light barrier get activated If the barrier blinking red constant: - Check 12V (TERMINAL 1-2 MUST BE FROM 16 TO 12 Vcc) - Check the alignment of the column - Check the ground connection, disconnect the ground from the power supply and verify from the door body and the ground must be OL (opened) - CONNECT THE TERMINAL 2 TO THE GROUND - Check extra cable (syncronization and receiver cable MUST STAY AWAY FROM THE MOTOR) - Check environment (don't wash with high pressure water or chemical components the barrier) - Replace the barrier
007A	UPS power supply fault	UPS battery not full charge - Leave 24hours with power - Change UPS battery - Increase min volt open - Chance frequence UPS
0080 ,81, 82, 83, 84, 85, 86	Software error	The software needs to be updated
0087	Overvoltage	- Check power supply (230V+/-10%) or (460V+/-10%) - Reduce the speed close
008D	Overtemperature	Wait untill the card temperature is ok, if the temperature is ok, replce the card
008F	Ignition voltage fault	- Check power supply - Make reset 3 push button - Upgrade the card - Change the card
0091, 93, 94, 95, 97	Software error	The software needs to be updated
0103	Blocked photocell while teaching	- Check photocell connection - Check LD7 (if photocell is ok must be ON) - Check position photocell (need to be in front) - Check columns position (need to be in line)
010E	Door stalled	No correct encoder movement - Check encoder magnet (see instruction) - Check brake (remove brake cover and see status and distance ferrodo) - Check gearbox status - Check guide status (need to be clean) - Check zip status (need to be clean) - Not lubricate guide or zip - Reduce speed open
0116, 0117, 0118	Motor configuration error	The software needs to be updated
0136	Encoder data communication error	- Check encoder cable status - Check encoder cable shield on terminal 2 - Check distance from encoder and card (MAX 20 mt) - Check magnet position in the encoder - Upgrade software - Replace encoder
0138	Encoder battery fault	Replace encoder
013A	Lost position encoder	Replace encoder
DISPLAY AND LED SWITCH OFF AND ON	Low voltage overload	SHORT CIRCUIT LOW VOLTAGE (12V) the cards are equipper by self protection fuse, in case of short circuit switch off and try to reconnect after 3 sec. - Disconnect terminal 1-2 and 21-22 and check if the display stay ON - Check every single device connecting one by one to identify the short circuit line - In case the display remain OFF, replace the card.

4. DISPLAY MEANING

DIGIT	STATUS	NOTE
UPS	UPS opening	
UPS-	Opened UPS mode	Door remains open due to blackout
UPSF	UPS Fault	Door remains open. Since the UPS is faulty, it could not open in the event of a blackout
UPSC	UPS closing	
UPSO	UPS obstacle	The door should close in UPS but there is an obstacle
C	Closed	
SE	Service expired	Door maintenance required
Sn	Service soon	Indicates cycles remaining before “service”
O	Opened	
OP	Open	
nn	Pause time	
PE	Pedestrian	
CL	Closing	
St	Stop	When the key is pressed, total number of cycles performed by the door is shown
J	Jog	The door is moved with the P1 and P3 keys on the board
ALnnnn	Alarm	Alarm code (see table on page 5) on 4 digits follows
tA	Teach	Door mesure teaching
tP	Teach pedestrian	
r2	Reset 2 AI Boot	The user performed a partial reset while keeping all the previous options
r3	Reset 3 AI Boot	The user performed a complete reset
r4	Reset 4 AI Boot	The user has performed a service reset
-.-	Teaching required	The card needs learning procedure

5. DISPLAY FUNCTIONS WITH STOP PRESSED

Once STOP has been pressed, the main parameters can be adjusted using the buttons on the card.
With STOP pressed, after the cycles count, press P2 for at least 3 sec, the letters will appear on the display as in the table below. You pass from one parameter to the next by pressing P2.
Releasing the STOP, the card saves the set values and returns to normal operation.

DISPLAY	ACTIONS	NOTE
to	Adjust pause time P1 increase, P3 decrease	Adjustable from 1 sec. to 99 sec.
nO	Adjust VMIN open motor torque P1 increase, P3 decrease	Adjustable from 0 to 220
nC	Adjust VMIN close motor torque P1 increase, P3 decrease	Adjustable from 0 to 220
So	Adjust Speed Open P1 increase, P3 decrease	Adjustable from 25Hz to 75Hz
Sc	Adjust Speed Close P1 increase, P3 decrease	Adjustable from 15Hz to 70Hz
OP	Adjust Open position P1 increase, P3 decrease	The number show Open dimension (parameter setup M5 S12). Each unit = 1cm
O2	Intermediate Open	Function usable with CAPTURE radar
CL	Adjust Close position P1 increase, P3 decrease	The number show Open dimension (parameter setup M5 S15). Each unit = 1cm
Fo	Adjust Photocell exclusion (T14)	P1= increase P3= decrease point exclusion
r1	Contact relay 4-5 function	From 1 to 10 (see contact reley case page 8)
r2	Contact relay 32-33 function	From 1 to 10 (see contact reley case page 8)
r3	Contact relay 1 ESP-OUT function	From 1 to 10 (see contact reley case page 8)
r4	Contact relay 2 ESP-OUT function	From 1 to 10 (see contact reley case page 8)
r5	Contact relay 3 ESP-OUT function	From 1 to 10 (see contact reley case page 8)
r6	Contact relay 4 ESP-OUT function	From 1 to 10 (see contact reley case page 8)
Fu	0 Automatic close	On/Off
Fu	1 UPS activation	
Fu	2 UPS sctivation with control status	
Fu	3 activation UPS Close	
Fu	4 Interlock auto/manual	

5.1. Contact relay function cases

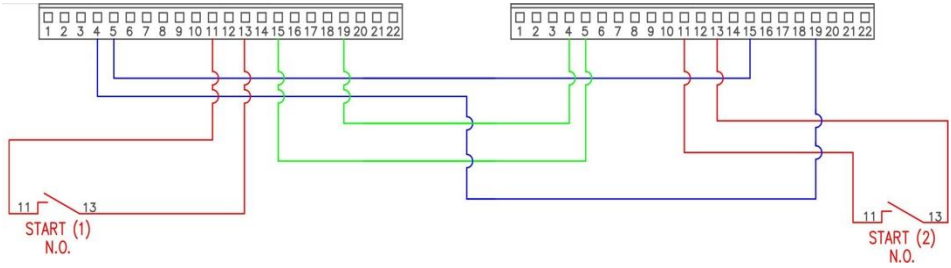
Adjustable in “stop pressed function” see previous page

Case	Relay Function	Meaning
1	Open NO	Relay closed with opened door
2	Open NC	Relay opened with opened door
3	Open pedestrian NO	Relay closed with pedestrian opened door
4	Open pedestrian NC	Relay opened with pedestrian opened door
5	Close NO	Relay closed with closed door
6	Close NC	Relay opened with closed door
7	Interlock	Automatic Interlock function
8	Flashing	Flashing while moving the door
9	Alarm NC	Relay opened with alarms
10	Open NO + Exclusion preflashing	Relay closed with opened door, opening while preflashing

6. INTERLOCK

Interlock system control the locking of two or more doors, so that if one door is open or opening, the remaining doors cannot be opened. You can choose to use automatic or manual mode, and you can connect interlock by wires or wireless using Wi-Fi Interlock with LCD programmer.

6.1. Interlock connection



6.2. Auto-Interlock

Connect 2 cards as in the example image, any free input can be connected instead of 19. Activates the interlock mode via the LCD programmer (M05 S31 or adding 80,000 in options1) or with the stop pressed functions (page 7). With the LCD programmer, select the desired input, in this case 19, in the M1 S22 menu on both cards. Now the automatic interlock function is activated: starting one of the doors, the second will not be able to open. When the moving door returns to closed, the second door will receive an input and will automatically open.

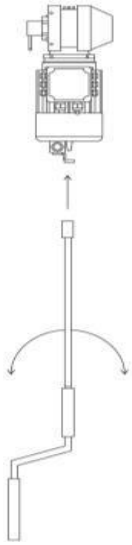
6.3. Manual Interlock

Once the automatic function has been activated, it is possible to select the manual function: as long as one door is in motion, the second will not be able to move, but once the first door is closed, the second will not open automatically, but will wait for a manual input. You can activate manual interlock via LCD programmer (M05 S32 or adding 1 in options2) or with stop pressed function (page7) on both cards.

6.4. WiFi Interlock

Without connecting the wires as in the example, it is possible to use the LCD programmer to use the interlock function on distant doors: activate the function in the M5 S30 menu (without activating auto interlock) on both cards. In order to function, the LCD programmer must be left connected to the cards. You can select group and subgroup if you have 2 or more groups of doors to interlock on M09 S4 and S5 (see LCD manual).

7. MANUAL OPERATION



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.

8. NOISE

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

9. PERIODIC MAINTENANCE AND CHECKS (USER / TRAINED OPERATOR)

General safety warnings before carrying out routine maintenance by the installer

Know how the equipment functions and understand the operating processes.
Know how to shut down the equipment. Emergency stop button is located on the machinery. Know where this stop is located.
Understand the equipment safety labels and heed them.
Wear the appropriate personal protective equipment for the job to be performed (if required) Ensure that nothing you are wearing could get caught in the machinery.
When working on or around all equipment, avoid wearing loose clothing, jewelry, unrestrained long hair, or any loose ties, scarves or articles that may be caught in moving parts.
Know where the FIRST AID SAFETY STATION is located. Before opening control panel be sure that power supply is OFF.

Description	Procedure	Cadence
Presence Use and maintenance manual and labels	-	-
Presence CE Marcking with serial number of the door	-	-
Visual check of the good condition of the main components of the door (motor unit, top heading, columns, curtain, control panel)	Check that the main components are not damaged or worn.	6 months
General cleaning of the system	Check that there are no obstacles or, if installed externally, vegetation within the radius of action of the automation and in any sliding guides of the curtain.	6 months
Cleaning of installed devices (photochells, flashing lamp, ecc…)	Use a damp cloth for external cleaning of the components. Do not use solvents or other chemicals (water only)	6 months
Verification functioning of the safety devices [photocells, safety light barriers (if installed), wireless safety edge (if installed)]	Press START to start the opening and closing cycle. During closing, pass with an object in front of the photocells (or safety light barriers if installed) and check that the inversion or stop occurs.	6 months
Junction and movement points	Lubricate the junction and movement points of the automation accessible to the end user. Access to internal parts protected by guards is prohibited. Check the tightness of the bearing supports and the mechanical couplings of the moving parts. Check that the tube does not make horizontal movements.	6 months
Fixing	Check that the top heading and the columns are well fixed to the support and do not have abnormal movements.	6 months

CAUTION Checks and interventions other than those indicated above must be carried out by technicians authorized by the manufacturer.

10. TECHNICAL ASSISTANCE

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ANNEX A – MAINTENANCE BOOK



	N° cycles	Date	Executing company	Stamp and signature
1				

Type of intervention

☐ Ordinary maintenance (attach visual checks and tests sheet)

☐ Repair

☐ Extraordinary maintenance

☐ Other / Modifications*

*In case of substantial modification must be create a new technical file

Intervention description

	N° cycles	Date	Executing company	Stamp and signature
2				

Type of intervention

☐ Ordinary maintenance (attach visual checks and tests sheet)

☐ Repair

☐ Extraordinary maintenance

☐ Other / Modifications*

*In case of substantial modification must be create a new technical file

Intervention description



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