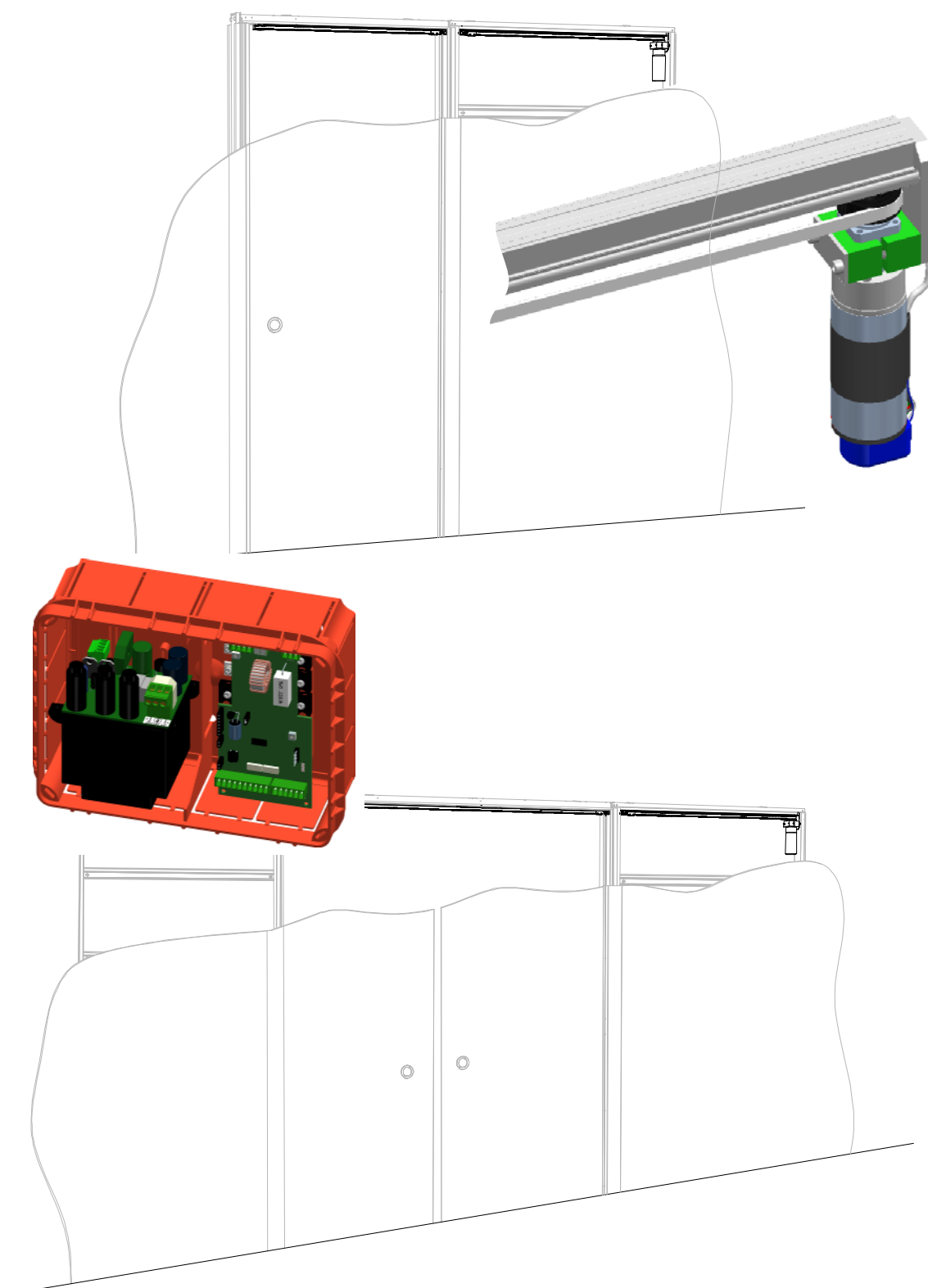


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ECLISSE Motor Drive System ECLIS 5



DECLARATION OF CONFORMITY

(Direttiva Macchine 98/37/CE, Allegato II, parte A)



Eclisse s.r.l. Via Sernaglia, 76
31053 Pieve di Soligo (TV)
Tel. +39 0438 980513 – Fax.+39 0438 980804
eclisse@eclisse.it – www.eclisse.it

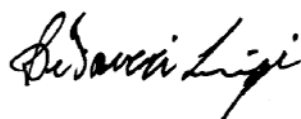
Declare that:

Description : **Motorisation ECLIS 5**☒ Conforms to the Machinery Directive 98/37/CE.☒ Conforms to the following Norms

IEC 60335-2-103:2006 (Second Edition) and IEC 60335-1:2001
(Fourth Edition), incl. A1:2004, and A2 : 2006, C1:2006, IEC 62233:
2005 (First Edition)
EN 60335-2-103: 2003
EN 60335-1: 2002+A1: 2004 + A11: 2004 + A2: 2006 + A12: 2006 +
A13: 2008
EN 62233: 2008

Date: **10/11/2009**

Signature of the person legally responsible:



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GENERAL INSTRUCTIONS

- The basic system comprises of a motor driven track system with a circuit board and transformer in a Gweiss type box.
- This system can be controlled by a number of devices such as infra red radar, photocells, remote control or push button. In some cases we will supply these but they can also be supplied by others. We cannot accept any responsibility for the installation and use of third party controls.
- In **ALL** installations this system must be protected from the mains by a suitably sized isolation switch and there must be a push button/push switch installed near to the door/s. As these switches differ from country to country, we do not supply them with the system. The push button/push switch can be used to open and close the door/s but is essential for reactivating the system should there be a power cut.
- There are separate instructions for physically installing the motor, circuit board and door, please ensure these are followed carefully and the door/s are completely free running with no obstructions whatsoever. Check particularly that the doors are not rubbing along the guides or floor - this is important as it would falsify the self calibration of the system and cause it to function badly if at all.

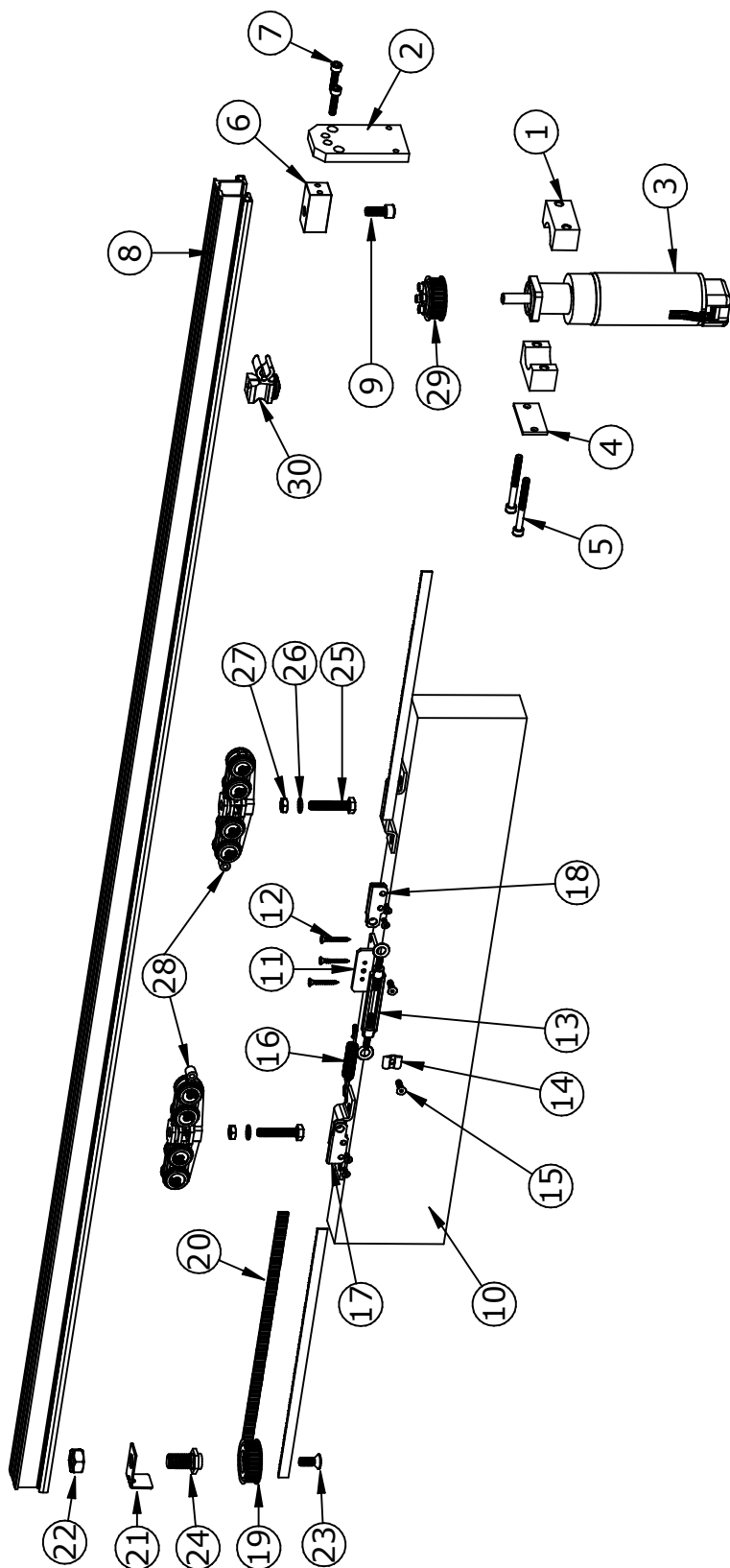
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WARNINGS

- This system must be installed by a suitable qualified person with experience of access control and in accordance with all local regulations.
- Ensure the installer has read and understood the complete manual.
- During the installation, connection and any modifications the electrical supply must be disconnected.
- This system must be protected from the mains by an isolation switch, suitably sized and must be used each and every time any electrical connections are made or modified.
- The circuit board and transformer are supplied inside the Gweiss box and for ease of connection should be removed by releasing the re-usable tie cables. Be careful not to cause any damage when doing this.

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PARTS LIST



No.	Description	Qty
25	Bolt M8x40	2
26	Flat Washer	2
27	Nut M8 low profile M8	2
28	Runners	2
29	Pulley	1
30	End Stop	1

No.	Description	Qty
13	Tension Device	1
14	Stop for tension device	1
15	Screws M5x20 ZNB	1
16	Traction spring	1
17	Belt stop DX	1
18	Belt stop SX	1
19	Return pulley	1
20	Drive belt	1
21	Bracket	1
22	Nut M14	1
23	Screws M8x20 ZNB	1
24	Bolt M14x25 with M8 hole	1

No.	Description	Qty
1	Motor support bracket	2
2	Motor locating bracket	1
3	Motor assembly	1
4	Plate	1
5	Screws M6x70 ZNB	2
6	Motor positioning bracket	1
7	Screws M6x20 ZNB	2
8	Heavy duty track	1
9	Screws M8x20 ZNB	1
10	Door Panel (not included)	1
11	Tension Device Bracket	1
12	Screws TPS 4x35 ZNB	3

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TECHNICAL SPECIFICATIONS

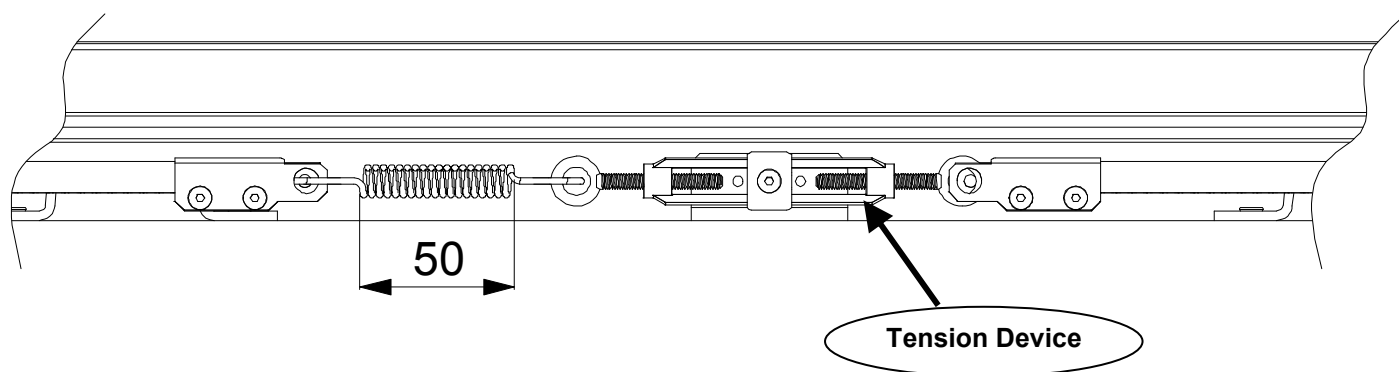
Motor	24 V dc
Opening Speed	~ 0,2 m/s - - ~ 0,4 m/s
Closing Speed	~ 0,1 m/s
Mains supply	230 V ac – 50 Hz
External accessories supply	24 Vdc – max 0,5 A
Absorbed power	Max 120 W.
Feed cable	Max 3 x 1,5 mm ²
Circuit Board	Microprocessor with end of cycle auto recognition. Electronically controlled impact protection.
Working temp	0 - 60° C
Noise	45 - 60 db (A)
Max door weight	70 Kg (single door) - 70+70 Kg (double door)
Max useage	Continuous cycle
Fuses,(see table pag 13)	F 1 0,5 A mains feed F 2 2,5 A motor feed (secondary) F 3 1 A service feed (secondary)

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TENSIONING THE SPRING

WARNING : MAKE SURE THIS IS DONE BEFORE MAKING ANY ELECTRICAL CONNECTIONS

Ensure the spring is tensioned to a min. overall width 50mm,



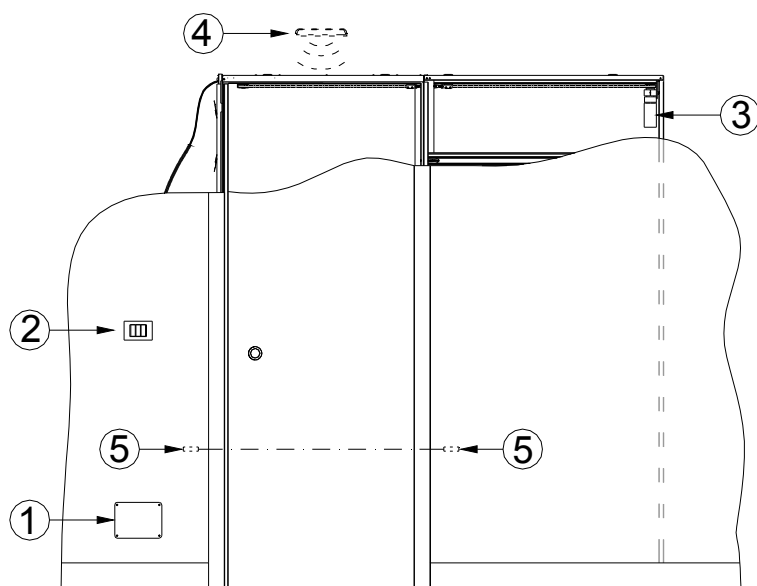
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INSTALLATION LAY-OUT

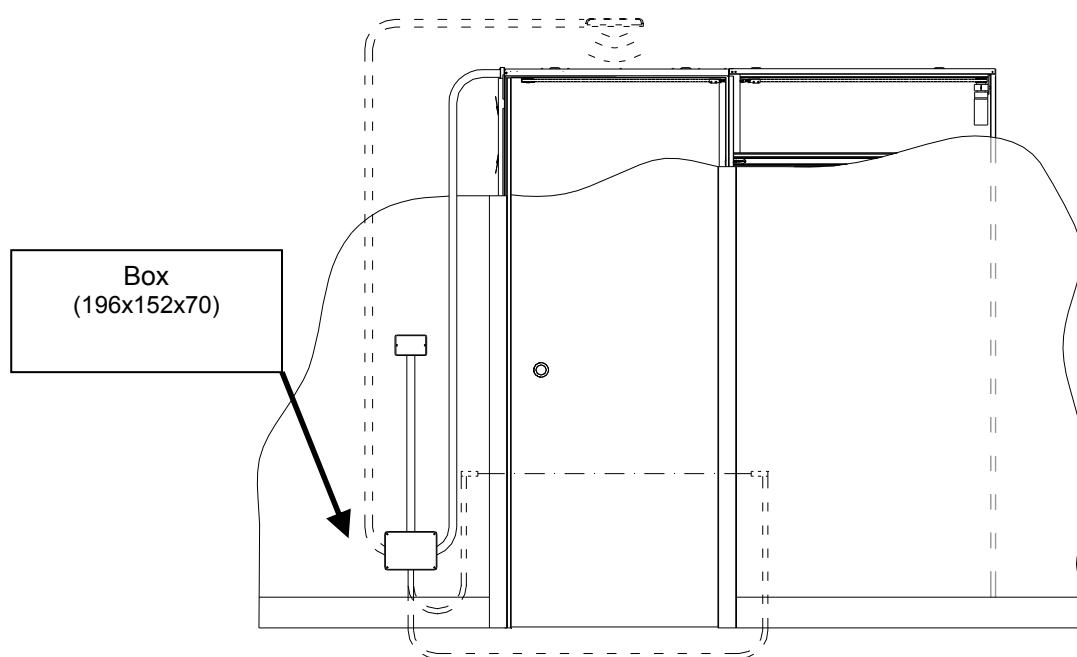
IMPORTANT

All devices must be installed at heights in accordance with local regulations.
Use 30mm dia tubing. Accessories shown in dotted lines are optional

Single door



Pos.	Description	Q.ty
1	Box with circuit board and transformer	1
2	GND/P-P Pushbutton/box (not supplied)	1
3	Motor and cables	1
4	Radar (optional accessory)	1
5	Safety infrared photocell (optional accessory)	2



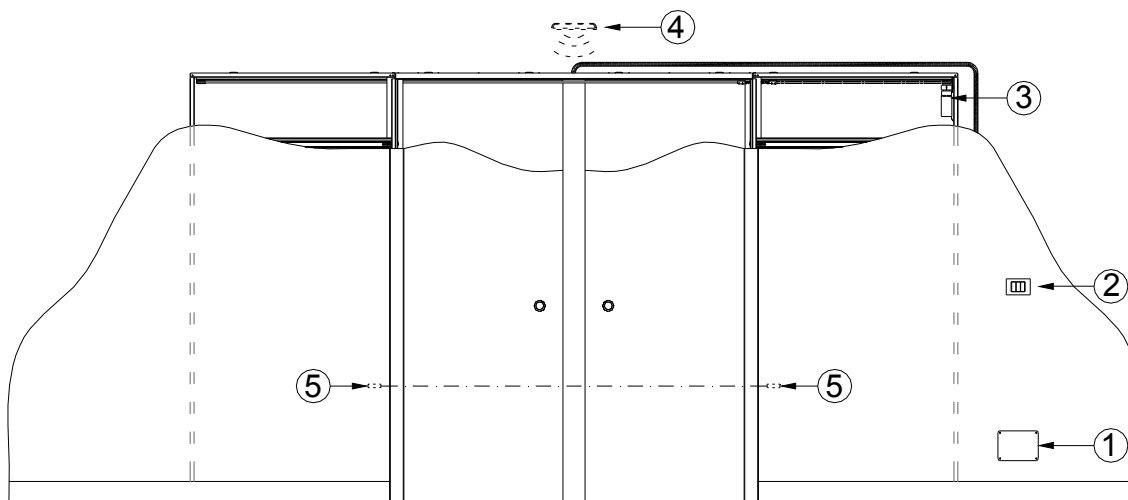
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INSTALLATION LAY-OUT

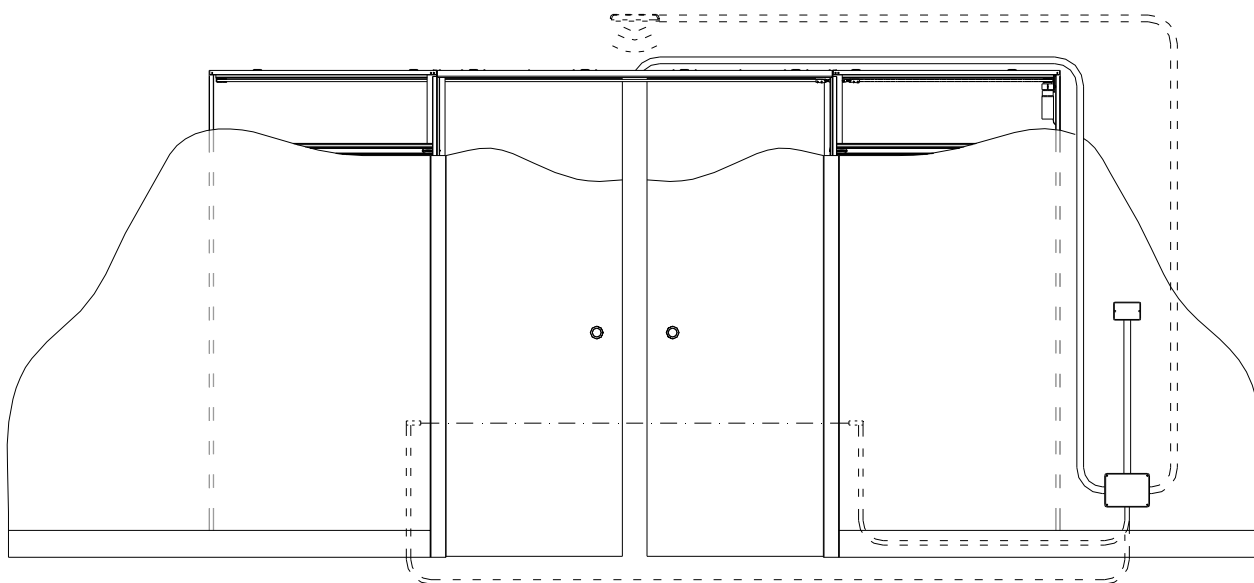
IMPORTANT

All devices must be installed at heights in accordance with local regulations.
Use 30mm dia tubing. Accessories shown in dotted lines are optional.

Double doors



Pos.	Description	Q.ty
1	Box for circuit board and transformer	1
2	GND/P-P Pushbutton/box (not supplied)	1
3	Motor and cables	1
4	Radar (optional accessory)	1
5	Safety infrared photocell (optional accessory)	2

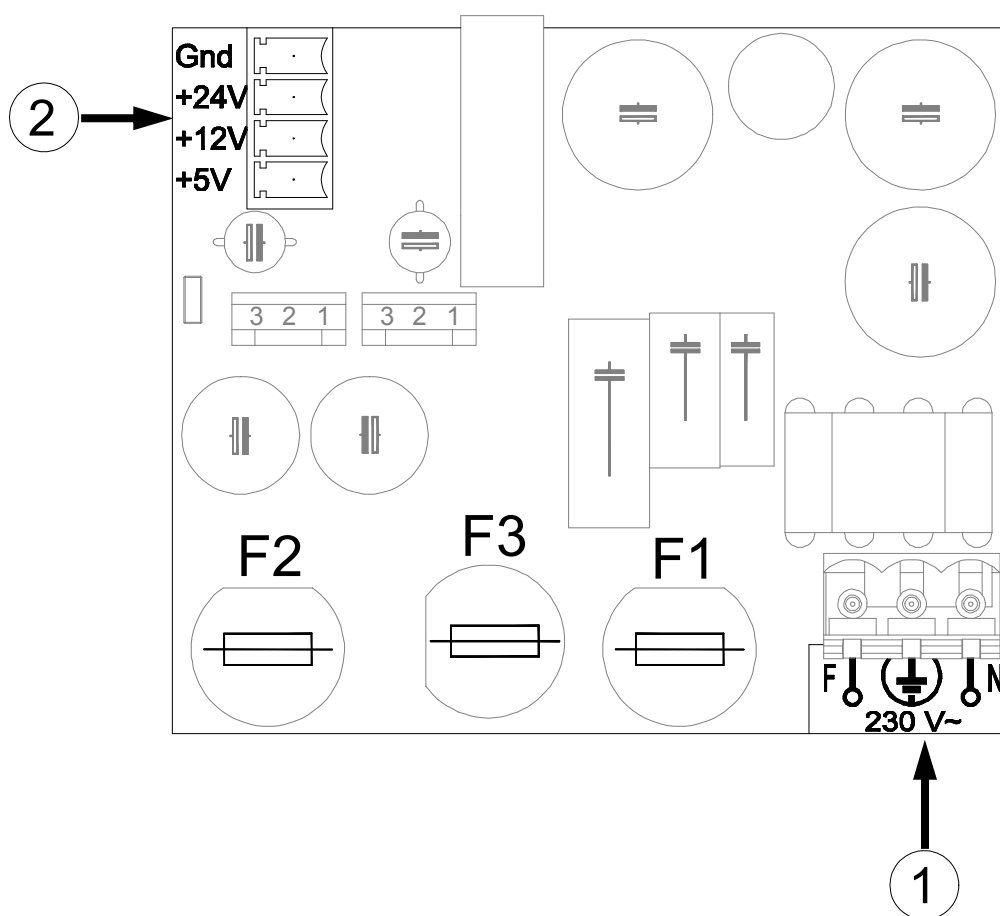







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ELECTRICAL DIAGRAMS

TRANSFORMER

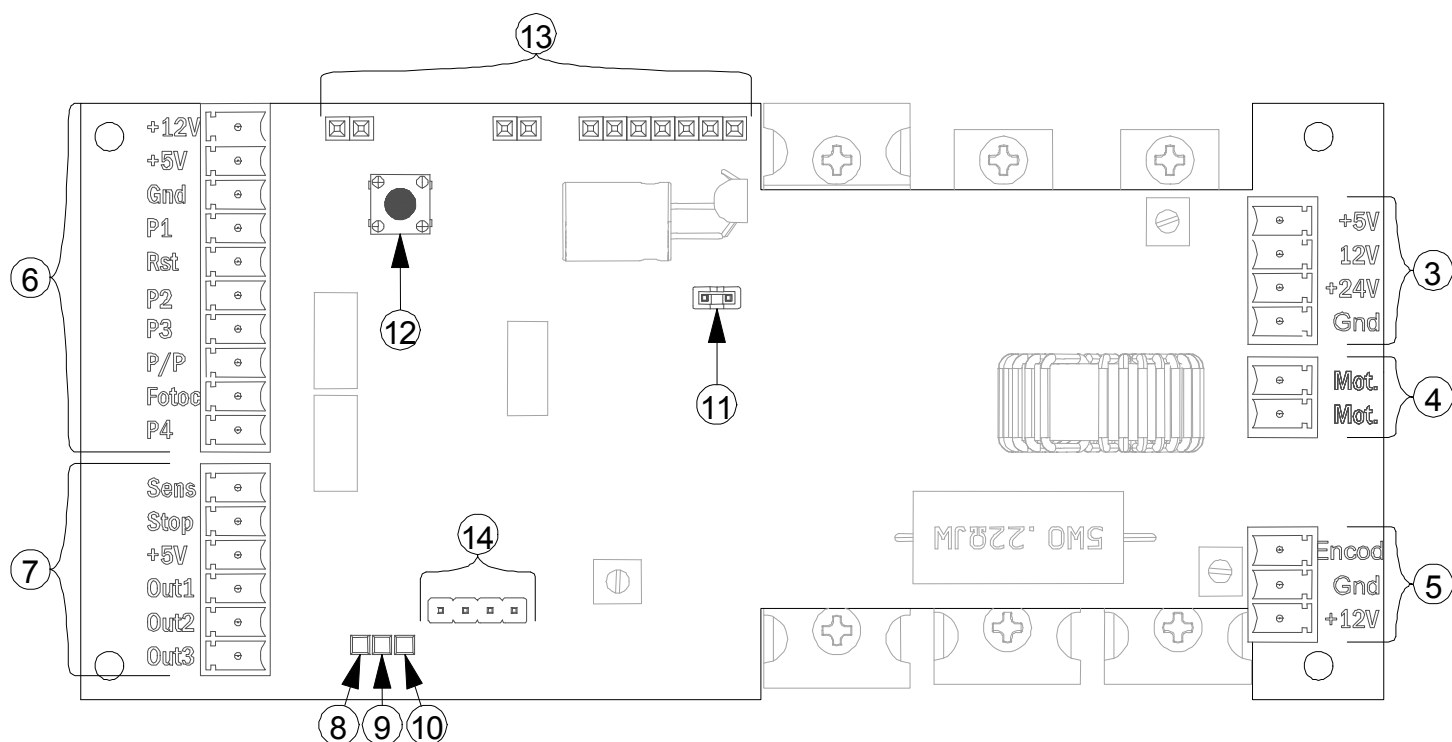
To connect the transformer and the circuit board use the cable supplied















	Pos.	Descrizione
	1	230V. Connectors
	2	Circuit board connectors
	F1	Fuse 0,5 A – Mains
	F2	Fuse 2,5 delay – Secondary (motor)
	F3	Fuse 1 A – (secondary service)

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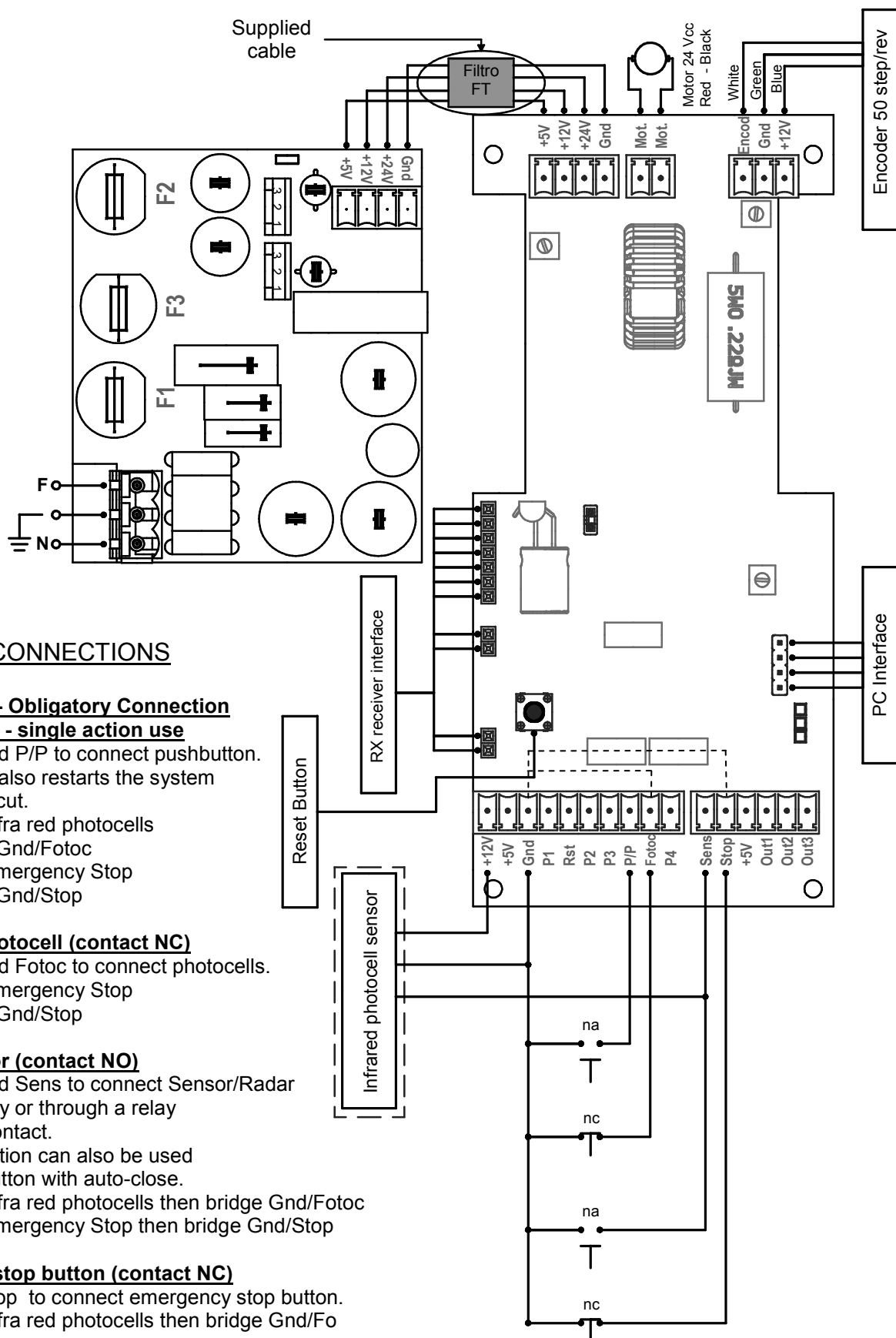
CIRCUIT BOARD



	No.	Description
	3	Connectors to Transformer
	4	Connectors to Motor
	5	Connectors to Motor encoder
	6	Command connectors +12V – 12v feed +5V = 5v feed GND = ground/earth P1/RST/P2/P3/P4 = not in use P/P Push switch Fotoc = Photocell NC
	7	Stop sensor connectors Sens = Sensor/Radar Stop + Safety stop NC + 5V = 5V feed Out1/Out2/Out3/X4 = not in use
	8	LED GREEN
	9	LED YELLOW
	10	LED RED
	11	Jumper 5V
	12	Reset Button
	13	RX receiver interface
	14	PC interface

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ELECTRICAL CONNECTIONS



TYPE OF CONNECTIONS

Pushbutton - Obligatory Connection (contact NO) - single action use

- Use Gnd and P/P to connect pushbutton.
- Pushbutton also restarts the system after power cut.
- Not using infra red photocells then bridge Gnd/Fotoc
- Not using Emergency Stop then bridge Gnd/Stop

Infra Red Photocell (contact NC)

- Use Gnd and Fotoc to connect photocells.
- Not using Emergency Stop then bridge Gnd/Stop

Radar/Sensor (contact NO)

- Use Gnd and Sens to connect Sensor/Radar either directly or through a relay with open contact.
- This connection can also be used for a pushbutton with auto-close.
- Not using infra red photocells then bridge Gnd/Fotoc
- Not using Emergency Stop then bridge Gnd/Stop

Emergency stop button (contact NC)

- Use Gnd/Stop to connect emergency stop button.
- Not using infra red photocells then bridge Gnd/Fo

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POSITIONING THE DOOR PRIOR TO START UP**WARNING**

Before fixing the door movement system (toothed belt), ensure the weight of the door panel has not caused any sagging in the structure as even a small amount can cause friction and the unit will not work correctly.

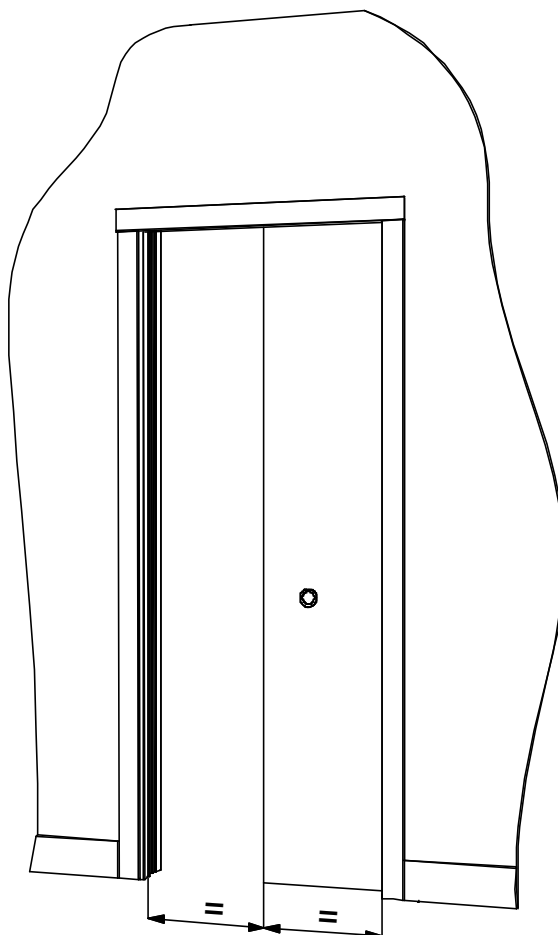
Ensure you are working safely at all times during these procedures and the mains is disconnected.

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POSITIONING THE DOOR

Start by positioning the door panel in the centre of the opening.

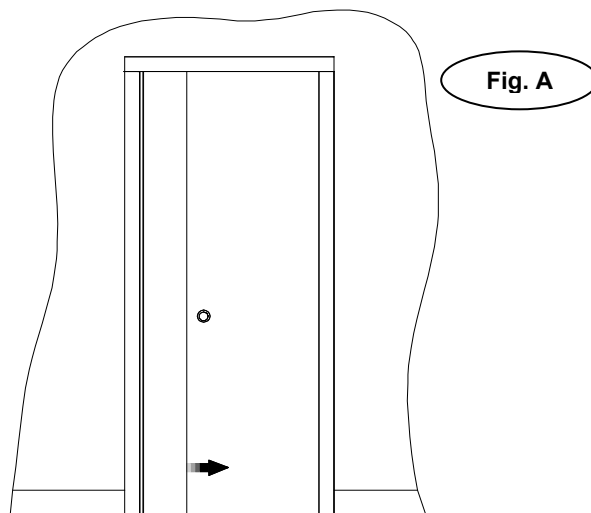
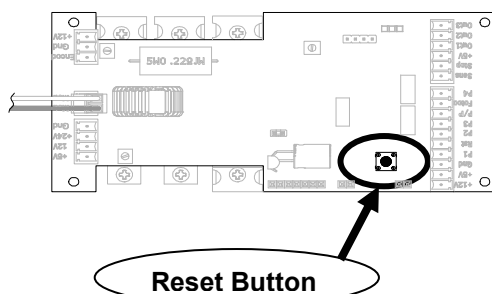
In the case of double doors position each door halfway along its travel.



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STARTING PROCEEDURE

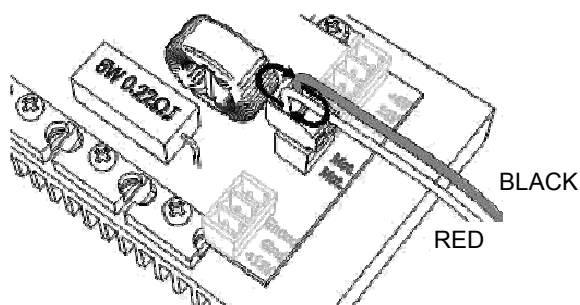
This system must be protected from the mains by a suitable sized isolation switch which should be used each and every time any electrical connections are made or modified.



Connect the main circuit board to the supply

- After connection and switching on, the three LED's should light up (Green, Yellow and Red), see positions 8 - 9 - 10 on page 10.
- Before continuing check again that the doors are free from any obstructions as this is essential for the procedure.
- Push the Reset button for 2 seconds.
- Wait for the Green and Red LED's to flash, releasing the reset button they go out and the yellow remains constant.
- Wait for about 30 seconds and the door/s should begin their 3 slow recognition cycles.
IMPORTANT NOTE: the door should start these cycles by opening fully (see diag A above). If it starts by closing then isolate the system and invert the red and black wires to the motor (Mot.) as shown, reconnect and repeat from page 12.

- DURING THESE CYCLES THERE MUST BE NO INTERFERENCE WITH THE DOORS MOVEMENT AS THIS WILL CONFUSE THE SELF-CALIBRATION



- Wait for the red and yellow LED's to go out and the green to remain on.

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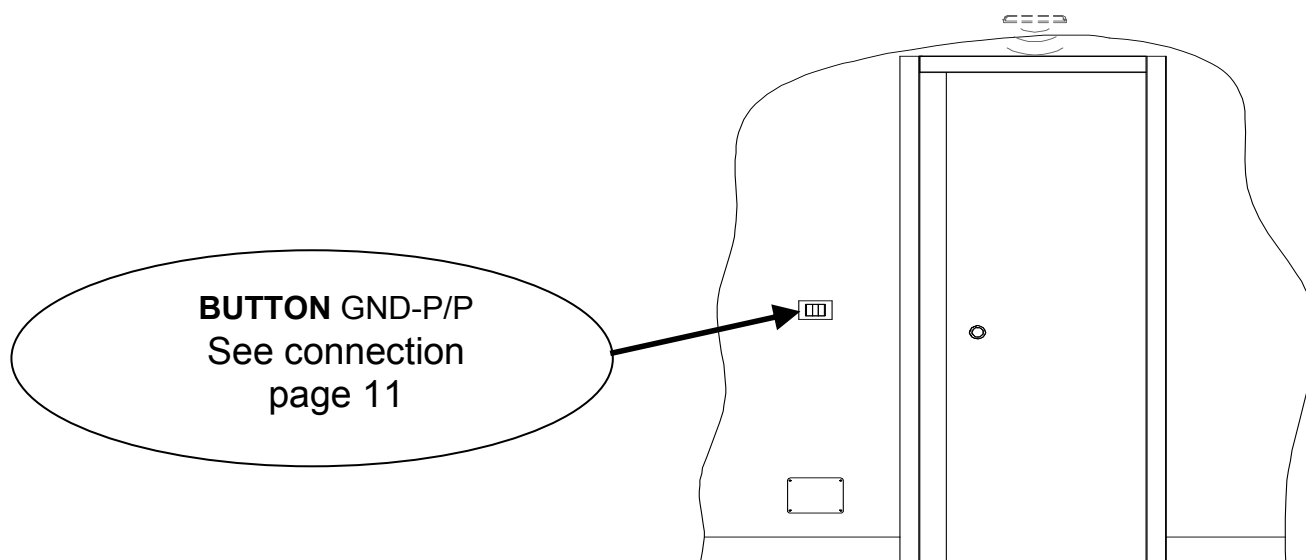
FINAL OPERATION AND CHECKS

To complete the installation you need to perform 10 open/close cycles using the push button GND-P/P ensuring the door/s open and close to their desired limits. If after 10 open/close cycles the door/s do not open and close correctly, check they are free running and not touching the surrounding parts, guide or floor.

- A constant green LED means the system is working correctly.
- Close the box containing the circuit board and transformer.

WARNING

- Should there be a power cut the closing mechanism should be reactivated by pushing the GND - P/P button. This will then complete one cycle.
- If the door is blocked 3 times in a row it will automatically open to its widest position, to restart push GDN - P/P button.

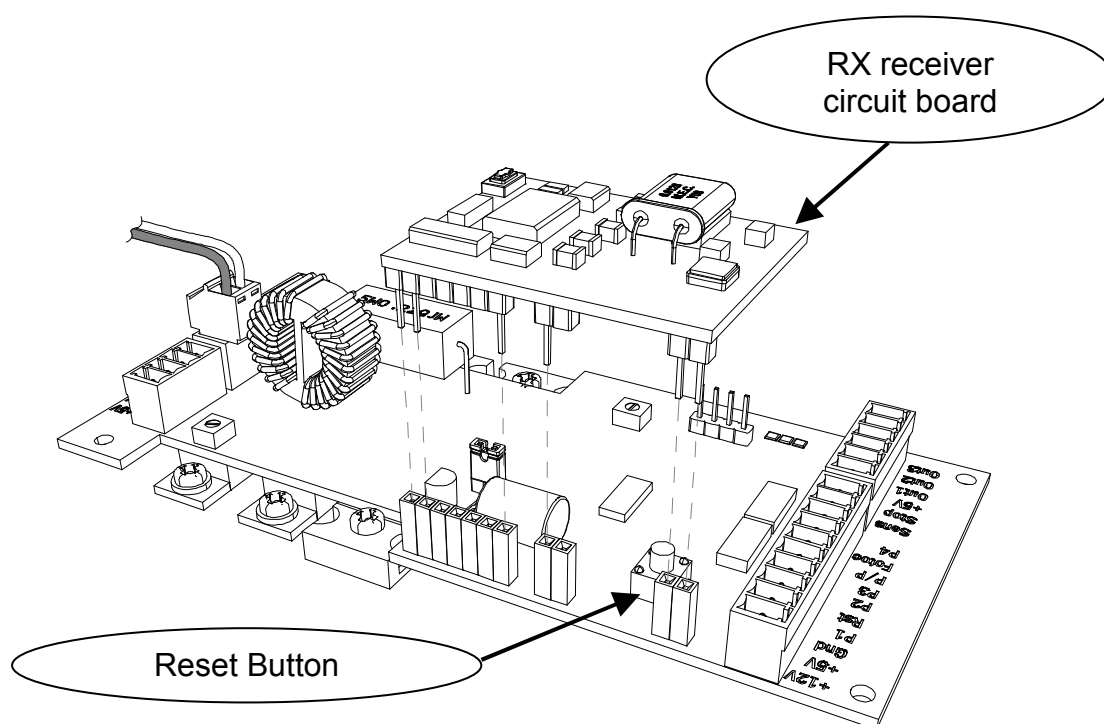


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OPTIONALS ON REQUEST

IMPORTANT When installing optional extras follow exactly the manufacturers instructions, we do not accept any responsibility for the installation or damage caused by incorrect optional installation

- **RADAR**
- **INFRA RED PHOTOCELLS**
- **REMOTE CONTROL** (RX receiver board and Remote)



- Disconnect the main circuit board before connecting/disconnecting the RX receiver board.
- Be extremely careful when inserting the RX receiver connectors into their position on the circuit board.
- The RX receiver board obscures the reset button when installed. Although the reset button can be accessed with a screwdriver or equivalent we recommend the GDN/P-P pushbutton (see page 11) to restart the system.
- It is advisable to use the Reset button with the RX receiver board not connected. However the push button Gnd – P/P can be used instead.

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TROUBLESHOOTING

In the great majority of cases, malfunctions are due to the door/s not being free moving, so we recommend that this is always checked first ensuring the door/s are free running over their complete run. Detach the doors from the motor belt by releasing the single screw and plate that connect the belt tensioning device to the door clamp/bracket and repeat the positioning/starting procedure see page 12. Make sure the door/s are completely free running over all their run.

Problem	Probable Cause	Action
Door doesn't move	No electrical supply	Check for supply at the circuit board
	Blockage of door	Disconnect the toothed belt and check the door runs freely then do a Reset Check there has been no movement in the framework that could cause the door to touch the ground/guide
The cycle does not finish	Door not free running	Disconnect the toothed belt and check the door runs freely then do a Reset Check there has been no movement in the framework that could cause the door to touch the ground/guide