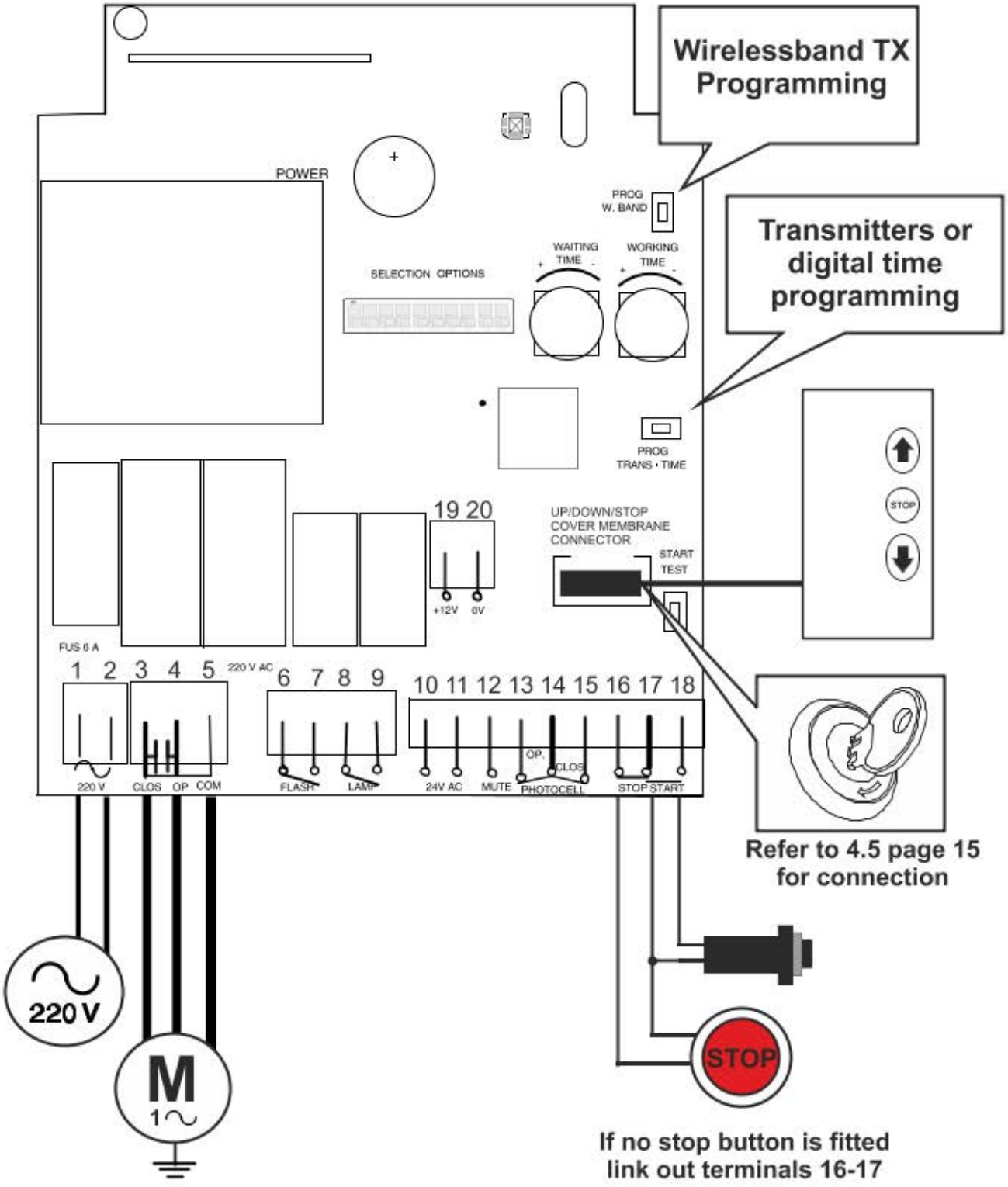
PILOT Instructions

1. CONNECTIONS



3. SCENARIOS

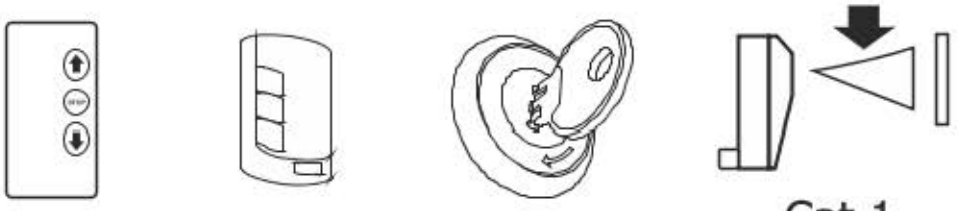
Scenario (point 3.1, page 4):

No safety

Scenario (point 3.2, page 5):

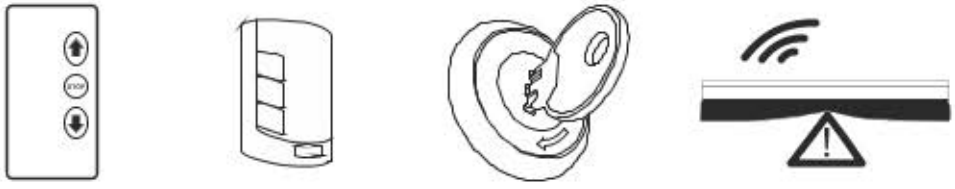
No safety

Scenario (point 3.3, page 6):

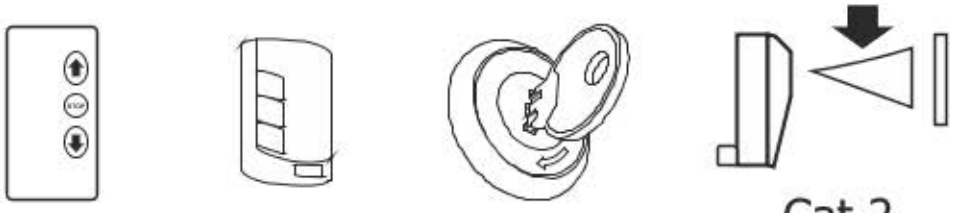


Cat.1

Scenario (point 3.4, page 7):

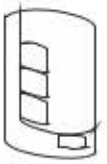


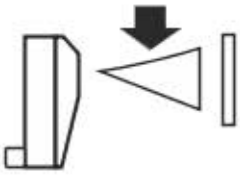
Scenario (point 3.5, page 8):



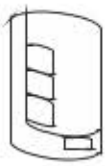
Cat.2

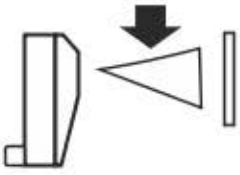
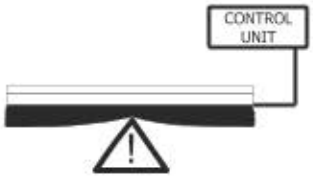
Scenario (point 3.6, page 9):

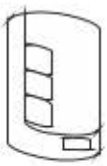

Cat.2

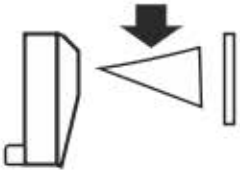
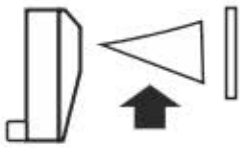

Scenario (point 3.7, page 10):


Cat.2


Scenario (point 3.8, page 11):

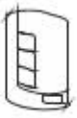




Cat.2

Cat.1

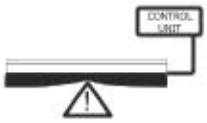

Legend:


Membrane

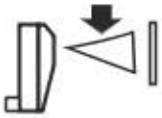

Key Switch


Remote key fobs

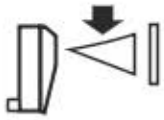

Rubber Wireless LP OSE



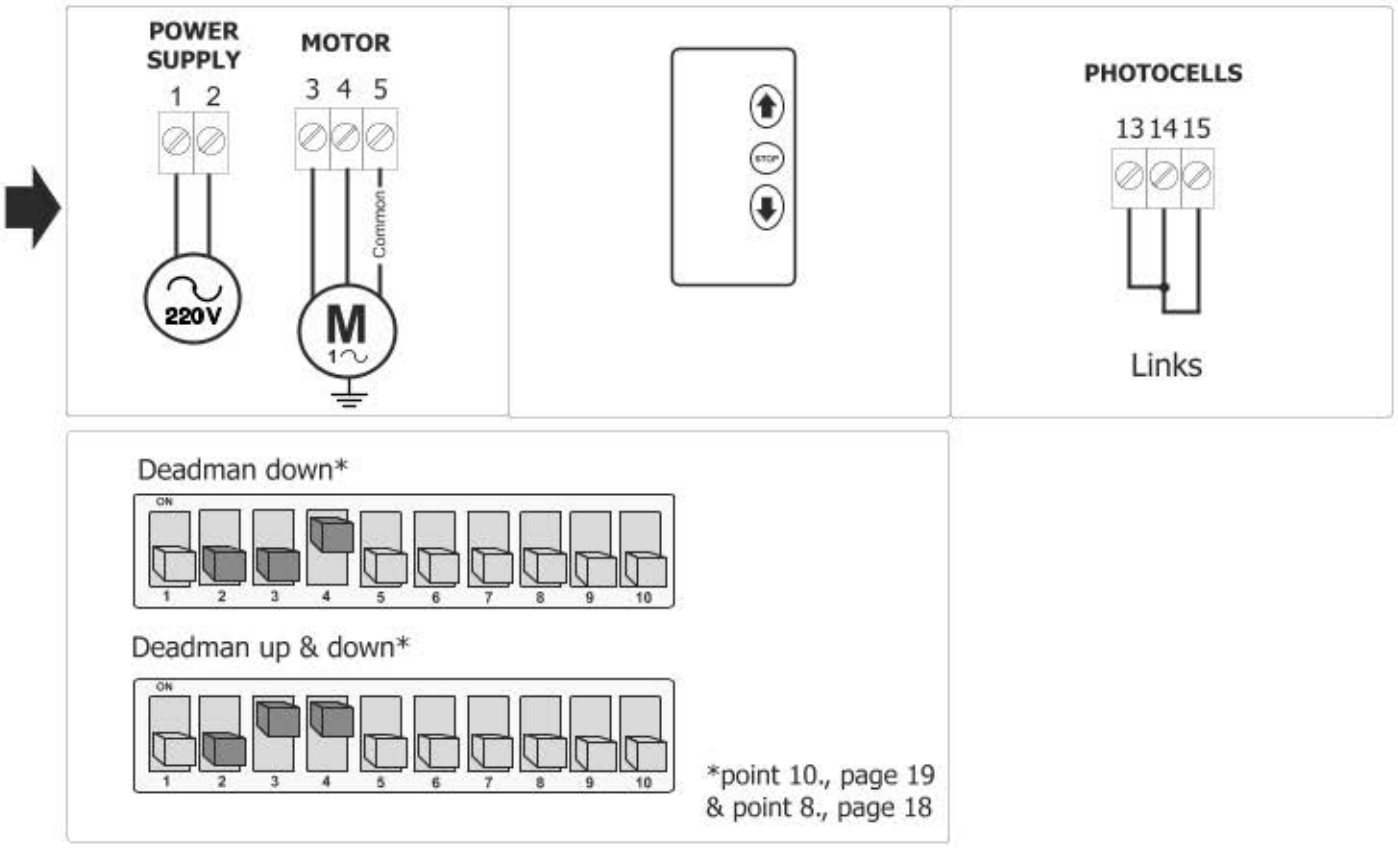
Rubber Wired LP OSE


Cat.2
Photocell close (with test)

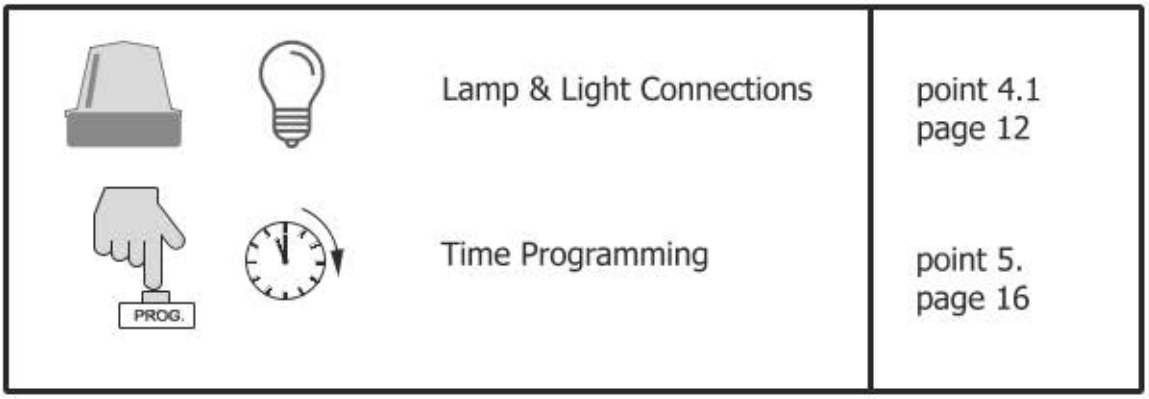

Cat.1
Photocell open (without test)


Cat.1
Photocell close (without test)

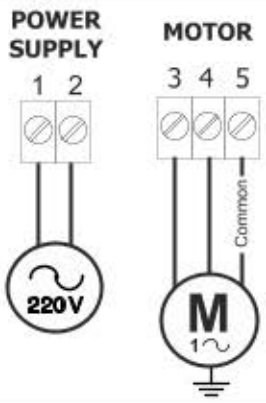
3.1 Scenario



Options:



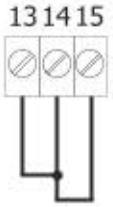
3.2 Scenario



Connections

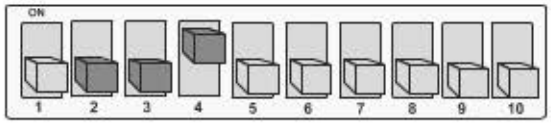
point 4.5
page 15

PHOTOCELLS

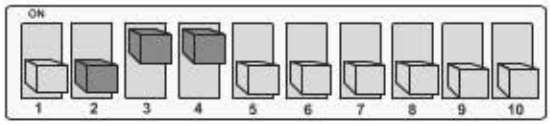


Links

Deadman down*



Deadman up & down*



*point 10., page 19
& point 8., page 18

Options:

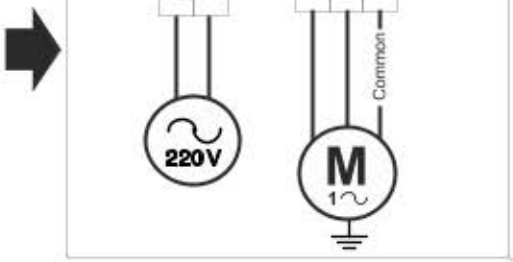
Lamp & Light Connections

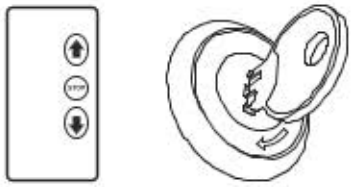
point 4.1
page 12

Time Programming

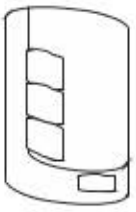
point 5.
page 16

3.3 Scenario

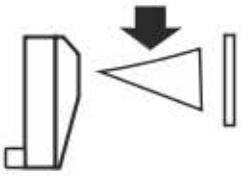




Connections point 4.5 page 15



Pairing point 6.1 page 16

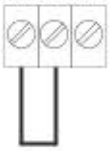


Cat.1

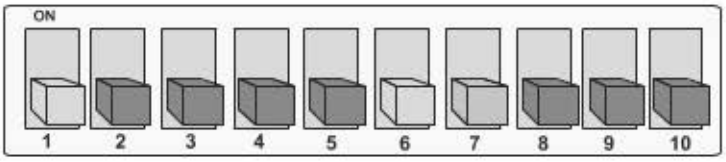
Connections point 4.2.b page 13

PHOTOCELLS

13 14 15



Links



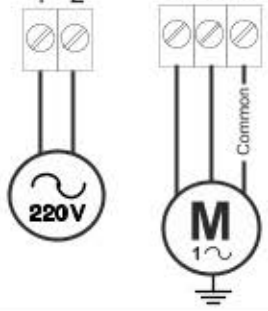
Configure 1,6,7. point 8. page 18

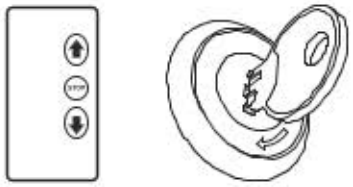
Options:

Lamp & Light Connections point 4.1 page 12

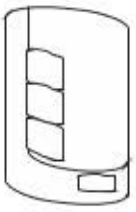
Time Programming point 5. page 16

3.4 Scenario





Connections point 4.5 page 15

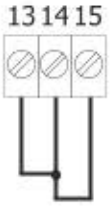


Pairing point 6.1 page 16

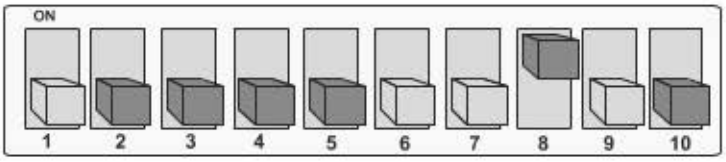
Connections point 4.4 page 14

Pairing point 7. page 17

PHOTOCELLS



Links



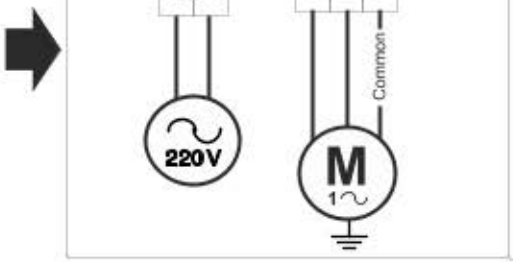
Configure 1,6,7,9. point 8. page 18

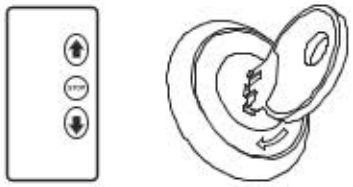
Options:

Lamp & Light Connections point 4.1 page 12

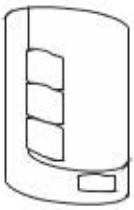
Time Programming point 5. page 16

3.5 Scenario

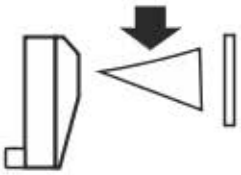




Connections point 4.5 page 15



Pairing point 6.1 page 16

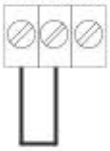


Cat.2

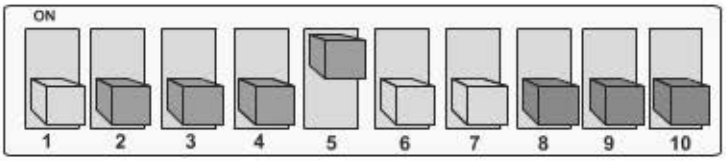
Connections point 4.2.a page 13

PHOTOCELLS

13 14 15



Links



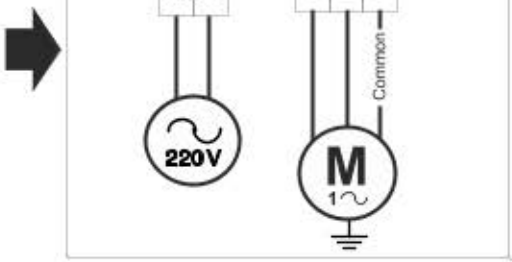
Configure 1,6,7. point 8. page 18

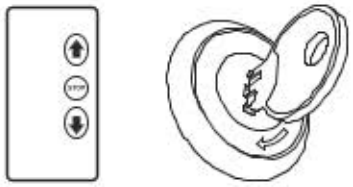
Options:

Lamp & Light Connections point 4.1 page 12

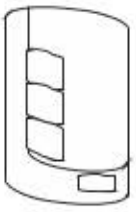
Time Programming point 5. page 16

3.6 Scenario

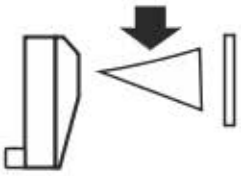




Connections point 4.5 page 15



Pairing point 6.1 page 16

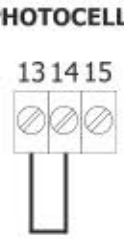


Cat.2

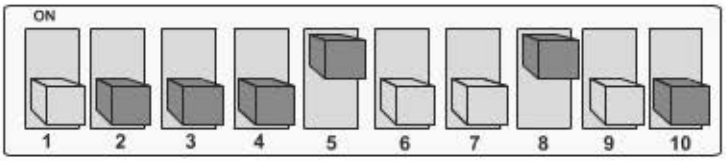
Connections point 4.2.a page 13

Connections point 4.4 page 14

Pairing point 7. page 17



Links



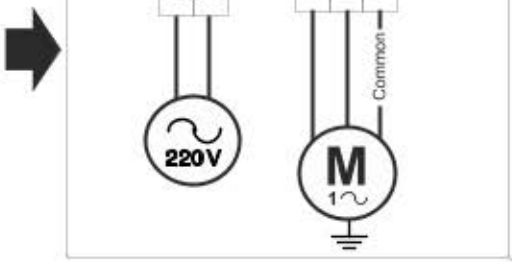
Configure 1,6,7,9. point 8. page 18

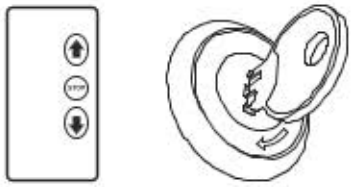
Options:

Lamp & Light Connections point 4.1 page 12

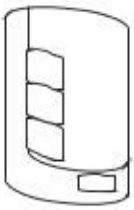
Time Programming point 5. page 16

3.7 Scenario

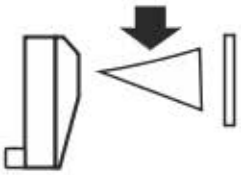




Connections point 4.5 page 15

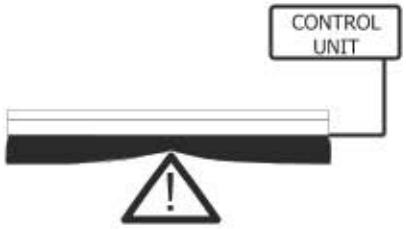


Pairing point 6.1 page 16

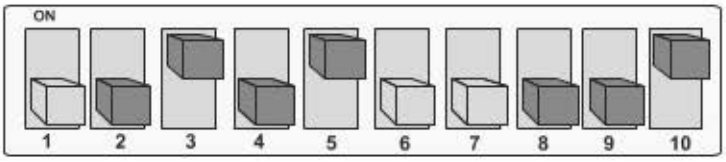


Cat.2

Connections point 4.2.a page 13



Connections point 4.3 page 14



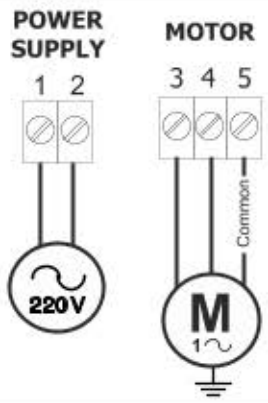
Configure 1,6,7. point 8. page 18

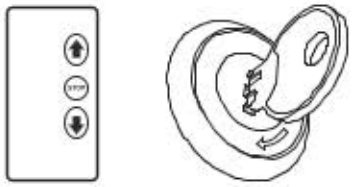
Options:

Lamp & Light Connections point 4.1 page 12

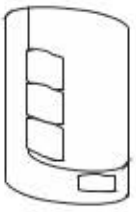
Time Programming point 5. page 16

3.8 Scenario

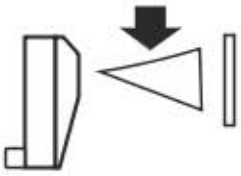




Connections point 4.5 page 15

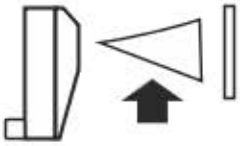


Pairing point 6.1 page 16



Cat.2

Connections point 4.2.a page 13

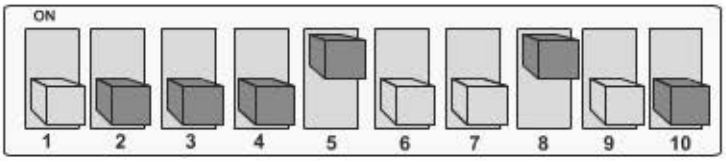


Cat.1

Connections point 4.2.c page 13

Connections point 4.4 page 14

Pairing point 7. page 17



Configure 1,6,7,9 point 8. page 18

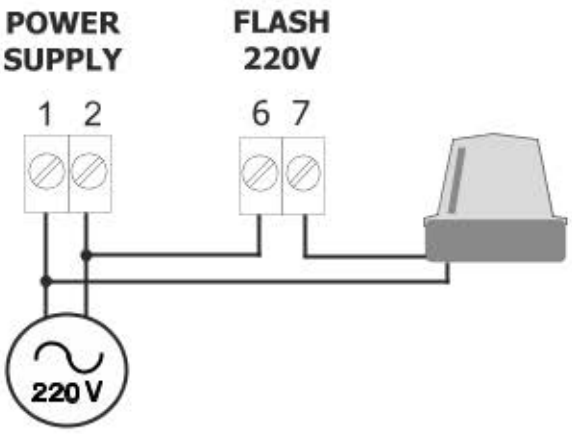
Options:

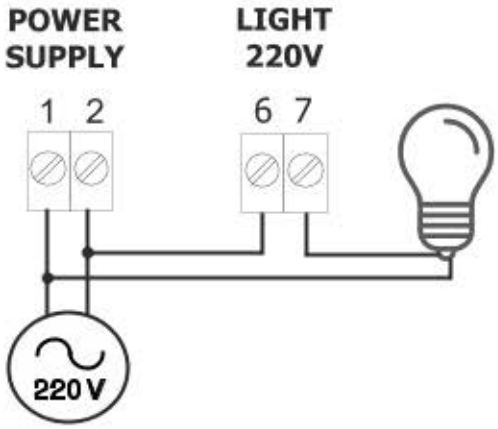
Lamp & Light Connections point 4.1 page 12

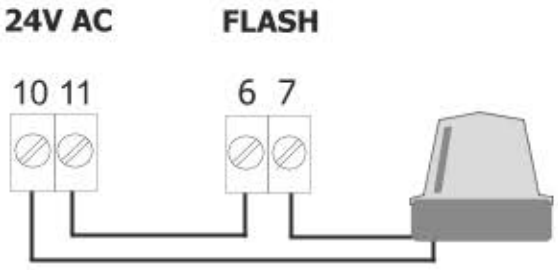
Time Programming point 5. page 16

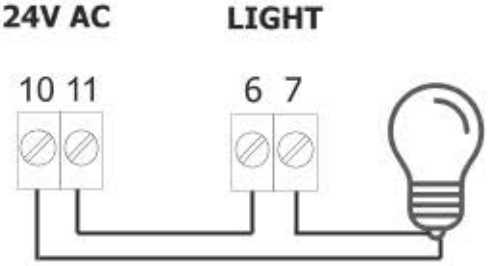
4. CONNECTIONS

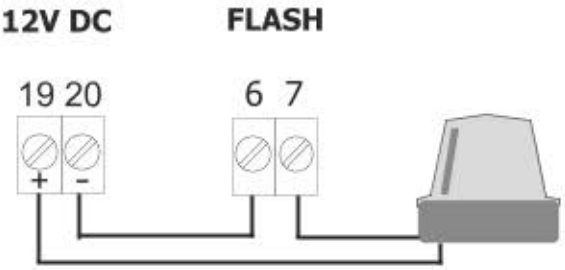
4.1 LAMP & LIGHT

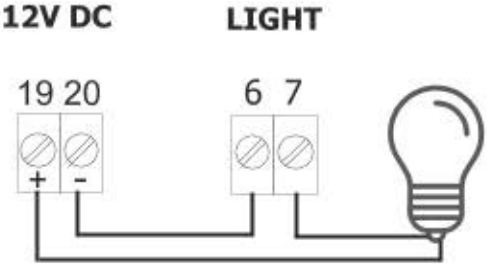






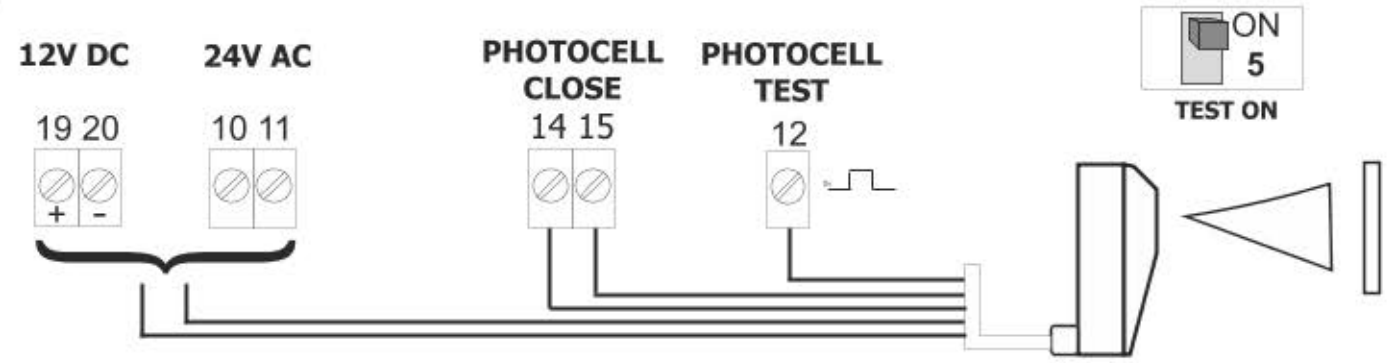




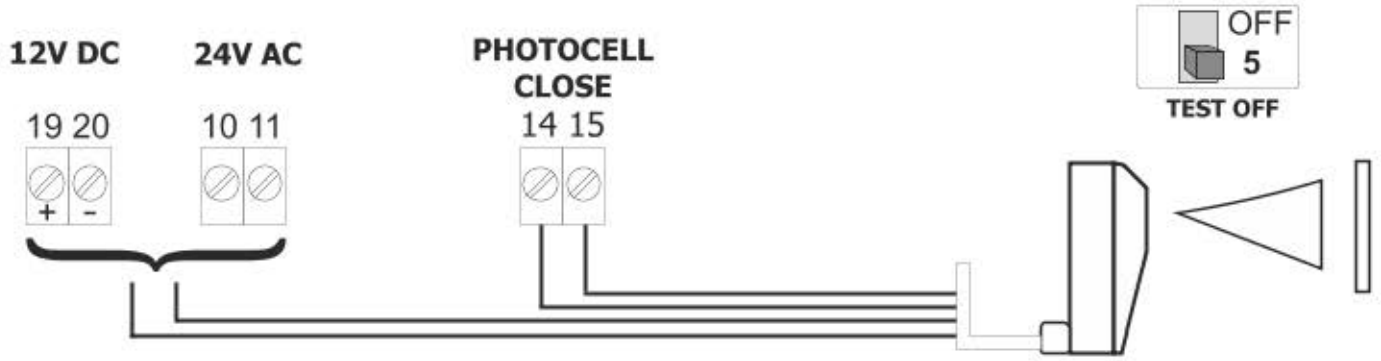


4.2 PHOTOCELLS

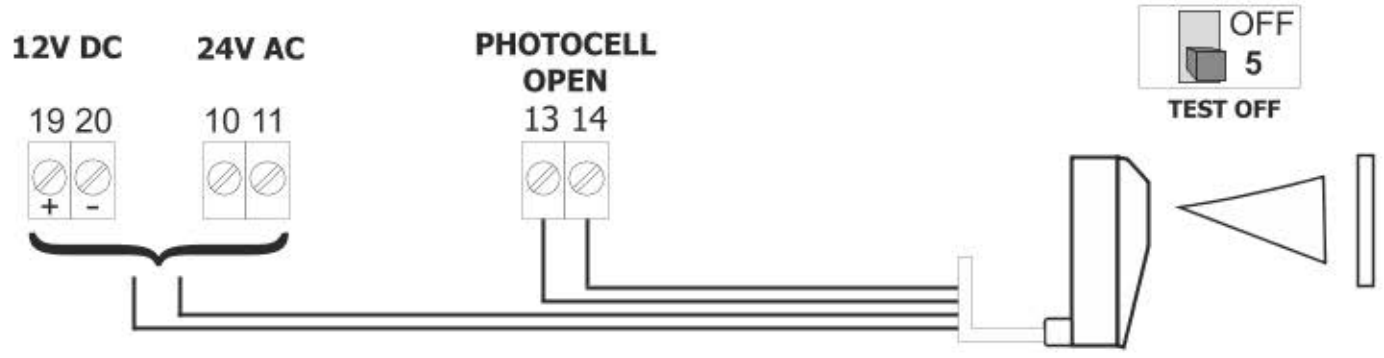
a)



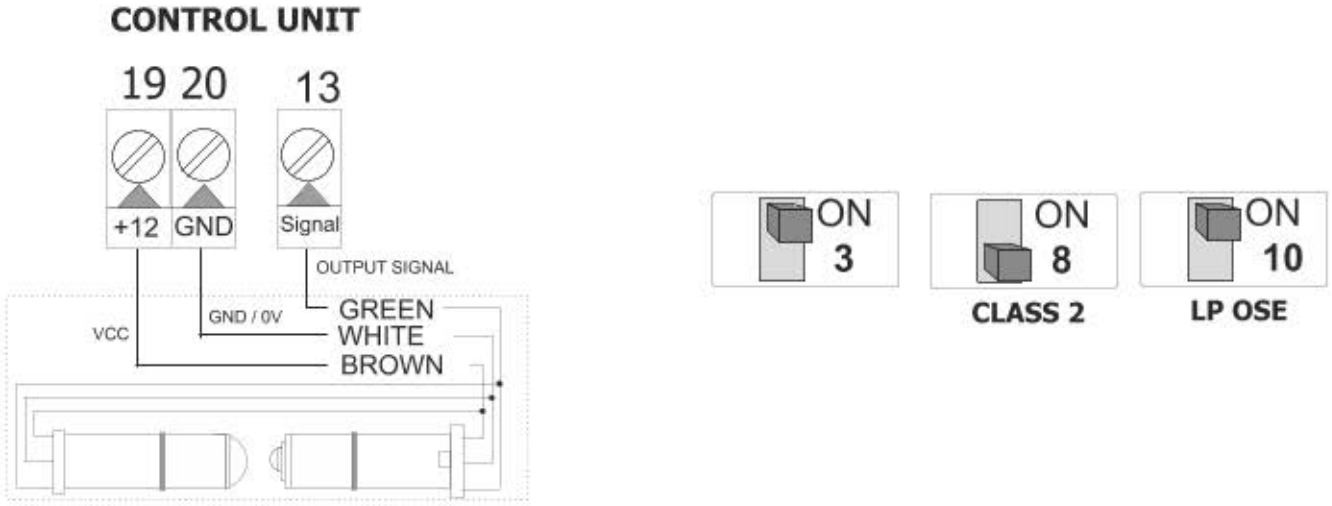
b)



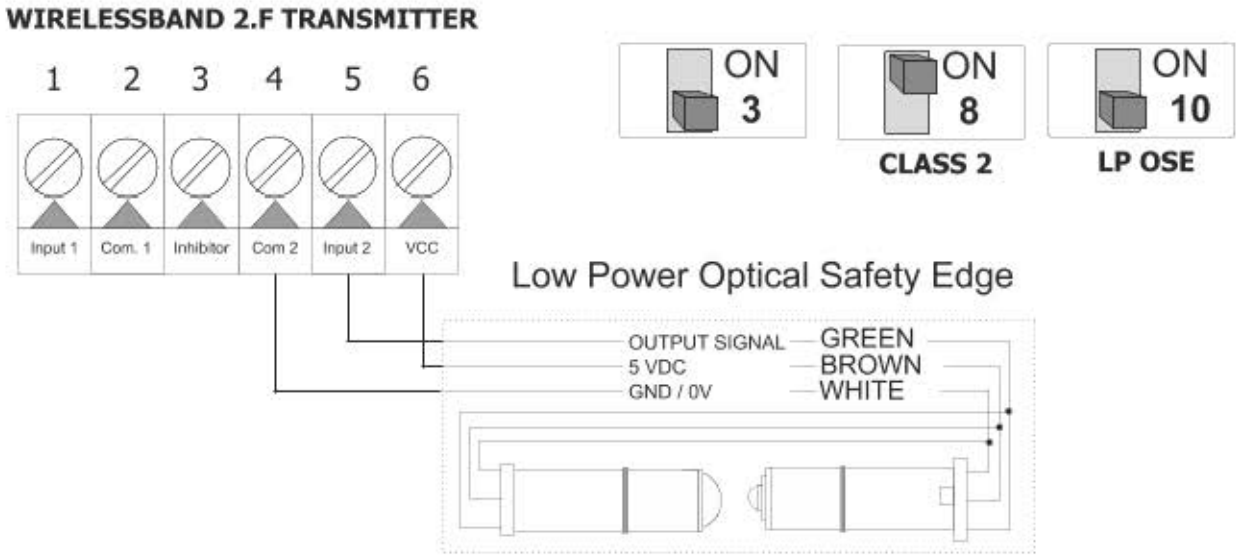
c)



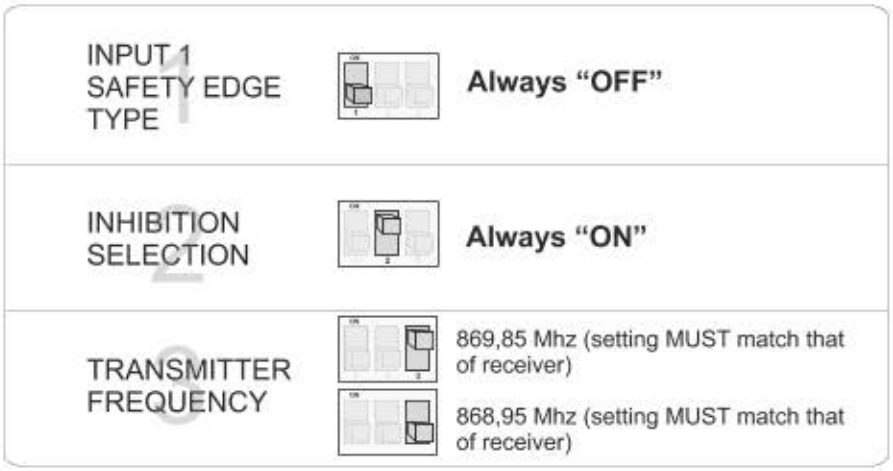
4.3 WIRED LP OSE



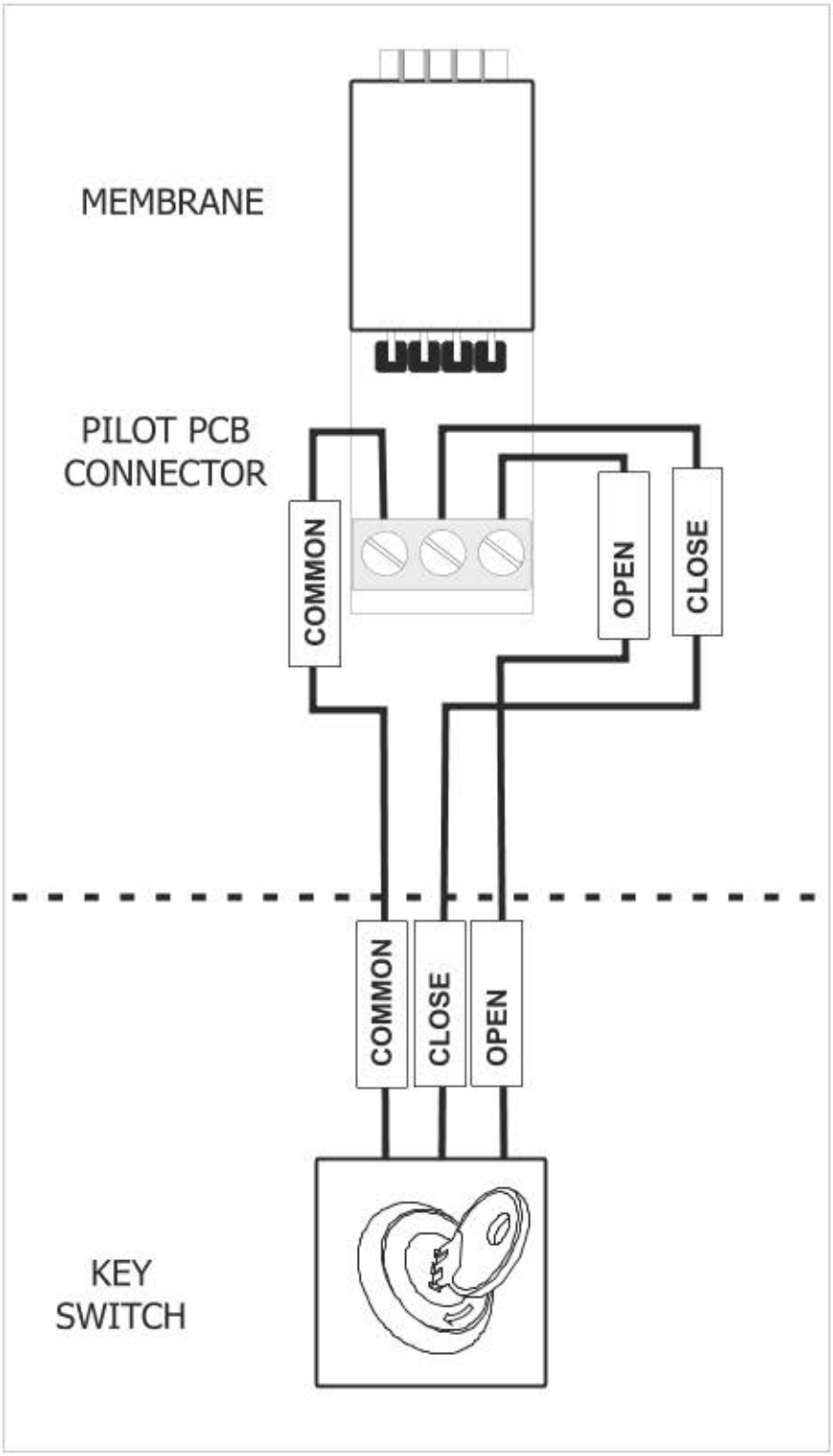
4.4 WIRELESS LP OSE



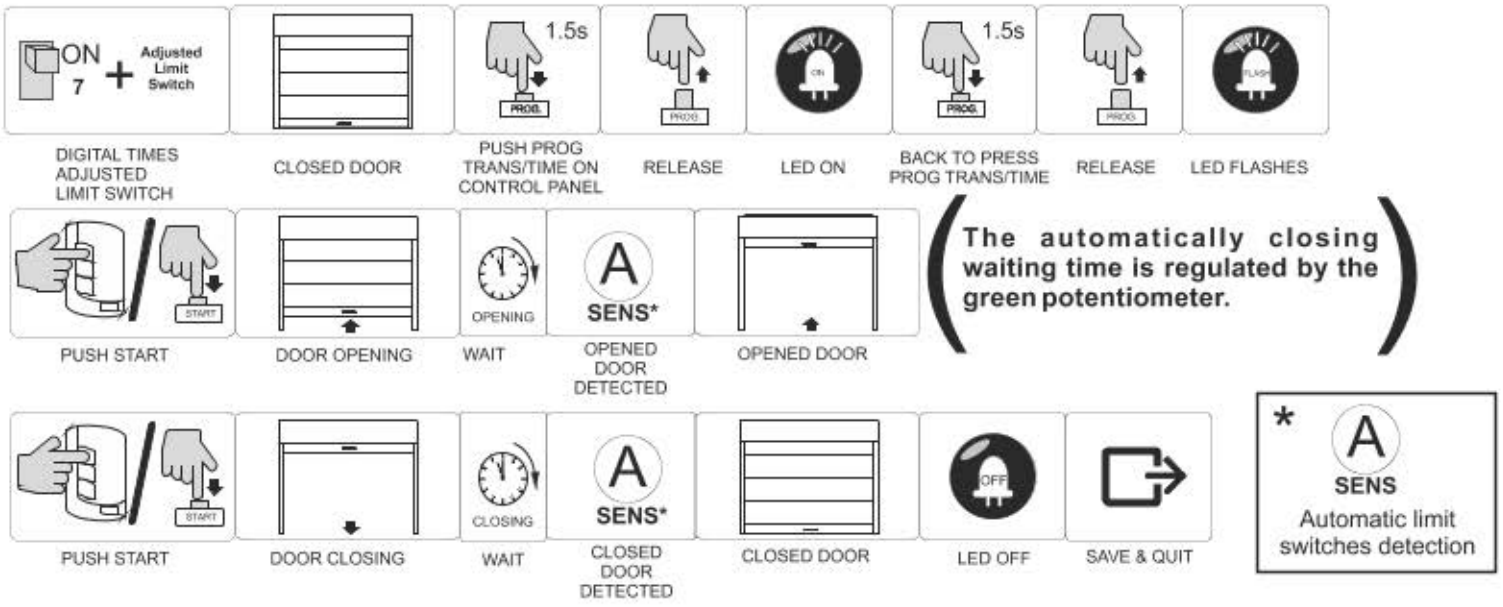
4.4.1 WIRELESSBAND 2.F TRANSMITTER OPTIONS SELECTOR



4.5 KEY SWITCH

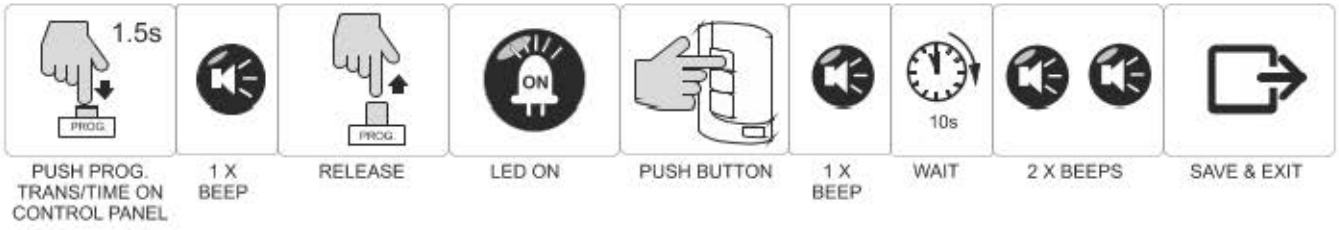


5. MANOEUVRE SELF-LEARNING DIGITAL TIME PROGRAMMING (START Button or Transmitter)

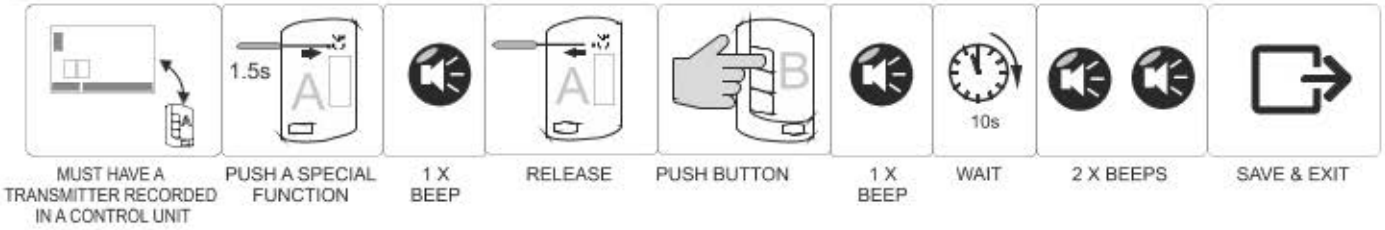


6. EMITTER PAIRING OPTIONS

6.1 EMITTER PAIRING FROM CONTROL UNIT



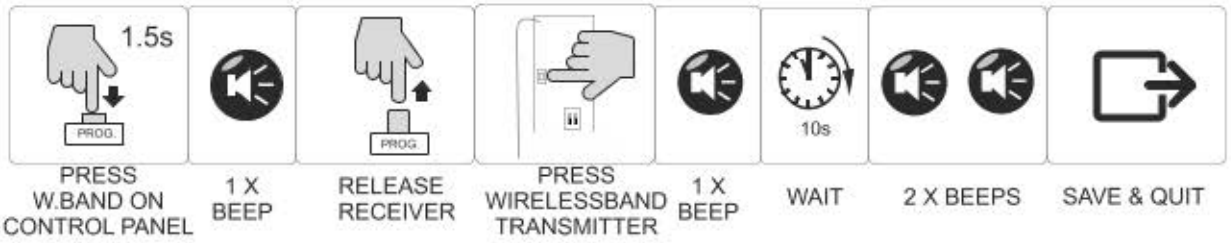
6.2 EMITTER PAIRING VIA RADIO



6.3 TIME AND EMITTER FULL MEMORY RESET

7. WIRELESSBAND PAIRING PROCESS

TX WIRELESSBAND CODE MEMORIZATION



PRESS W.BAND ON CONTROL PANEL | 1 X BEEP | RELEASE RECEIVER | PRESS WIRELESSBAND TRANSMITTER | 1 X BEEP | WAIT | 2 X BEEPS | SAVE & QUIT

TX WIRELESSBAND MEMORY RESET

PRESS W.BAND ON CONTROL PANEL | 1 X BEEP | KEEP IT PRESSED | # BEEPS | RELEASE W. BAND ON CONTROL PANEL | WAIT | 2 X BEEPS | SAVE & QUIT

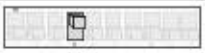
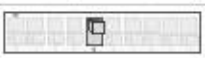
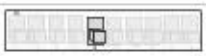
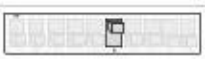
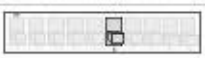
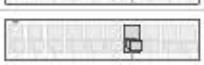
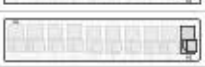
MEMORY FULL INDICATOR

In case of full memory you will hear several acoustic signals for 10 seconds upon trying to memorize a new transmitter.
The system can store 7 transmitters per channel.

LOW BATTERY INDICATOR

Low battery indication consists on 4 acoustic sounds each time a message is received from a programmed transmitter. Both warning LED and buzzer are set on simultaneously.

8. OPTIONS SELECTOR

1	AUTOMATIC CLOSING		- Door closes automatically after waiting a.c. time.
			- Door does not close automatically.
2	DISABLE STOP ON OPENING		- Alternative button (17-18) and transmitter are disabled on opening.
			- If alternative button(17-18) or transmitter are pressed, door stops.
3	PHOTOCELL OPEN / BAND		- PHOTO. OPEN INPUT (13-14), works like 8k2 edge inverting the manoeuvre on closing. On opening stops & inverts 1 sec.
			- PHOTOCELL OPEN input (13-14) stops the manoeuvre.
4	DEAD MAN		- Enabled.
			- Disabled.
5	PHOTOCELL TEST		- Enabled.
			- Disabled.
6	RADIO PROGRAMMING		- Transmitters radio programming allowed.
			- Transmitters radio programming not allowed.
7	DIGITAL PROGRAMMING		- Self-learning programmation.
			- Analog programmation times with potentiometers.
8	CLASS 2 WIRELESSBAND		- Conforms normative UNE-EN 13849-2.
			- Deactivated (Stock configuration).
9	WIRELESSBAND TRANSMITTER FREQUENCY		- 869,85 Mhz (setting MUST match that of receiver).
			- 868,95 Mhz (setting MUST match that of receiver).
10	OPTICAL SAFETY*		- PHOTOCELL OPEN input (13) works like optical safety edge.
			- PHOTOCELL OPEN input (13-14) works like resistive or mechanical safety edge.

***Note: With Option 10 ON, for a correct optical safety edge operation, option 3 must be ON.**

9. SAFETY CONTACTS TEST (PHOTOCELLS / SAFETY EDGES)

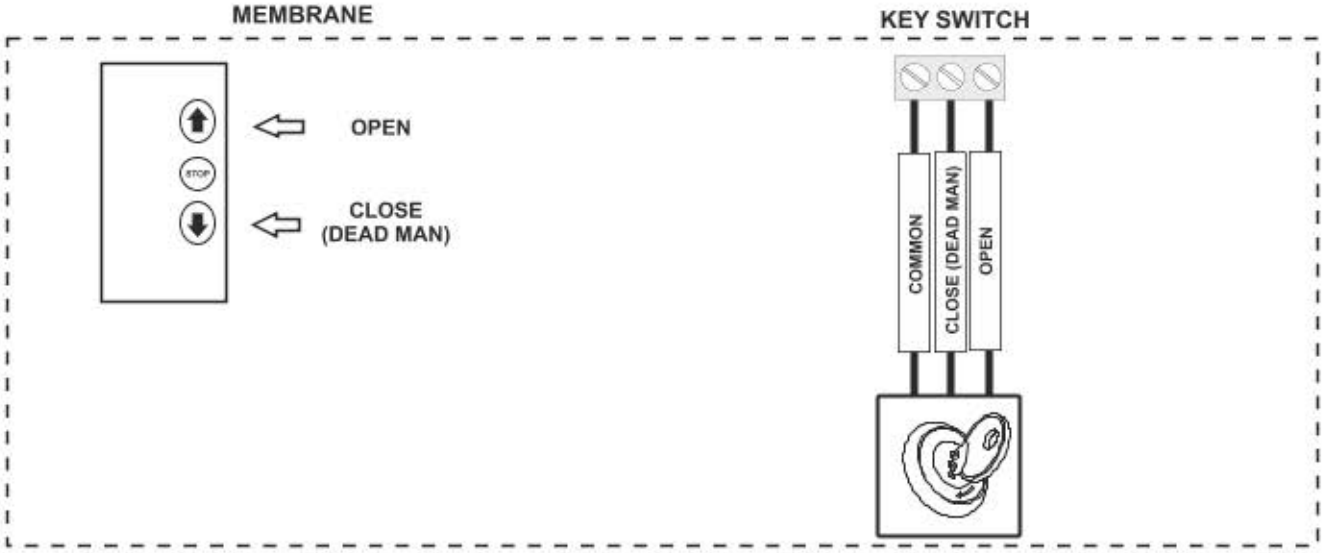
At the beginning and end of each door operation, the control panel tests the state of the photocells.
Once connected, the control panel independently treats the two photocell inputs (PHOTOCELL OPEN & CLOSE). EG: We could have a photocell with test in OPEN input and no photocell connected in CLOSE input (with wire bridge on terminals 14-15 because is a N.C. contact). The control panel knows that there is a photocell with test in OPEN input and a wire bridge in CLOSE input. If a photocell connected to the test does not pass or fails, a RED LED FLASHES (programme indicator led).

TEST ON

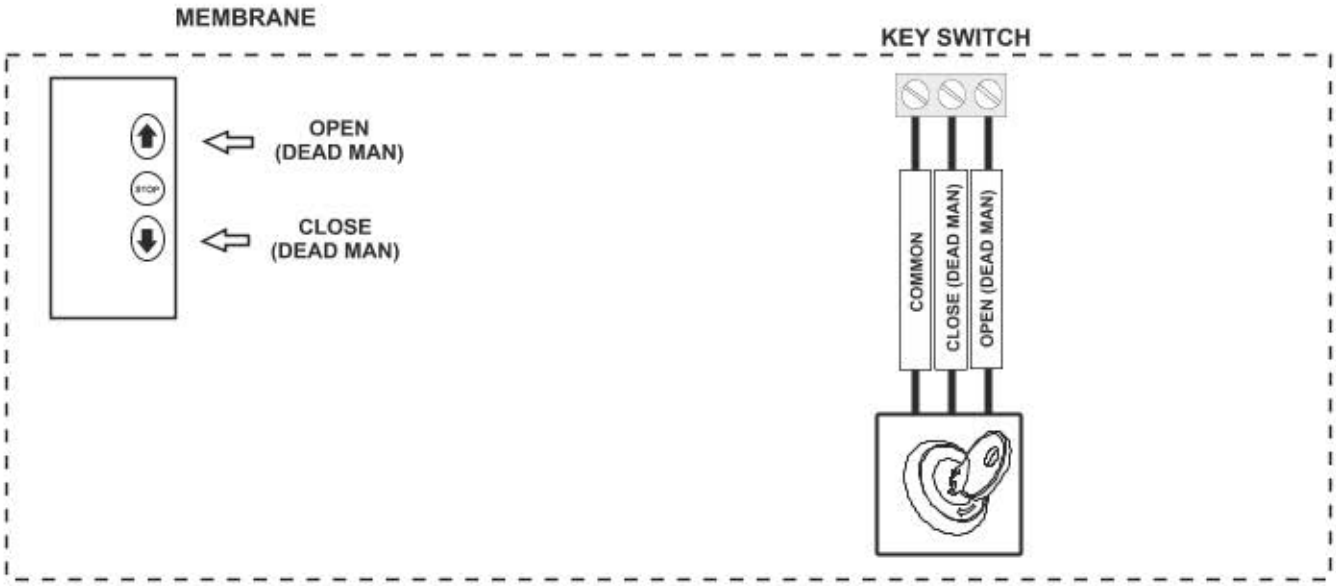
This enables the photocell test for PHOTOCELL CLOSE input. (cat. 2)
Connect control panel terminal 12 to test output and then turn on option 5, automatically control panel detects test type.
If the test is OK, would hear a bip. If not OK, would hear 2 bips and the control panel only can close with dead man.

10. DEAD MAN

DEAD MAN CLOSE

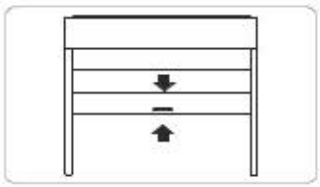


DEAD MAN OPEN & CLOSE



11. SETTING UP AUTOCLOSE

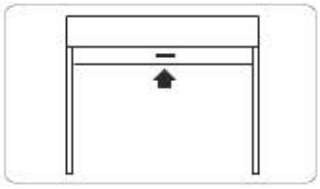
1. Raise/lower door to halfway.



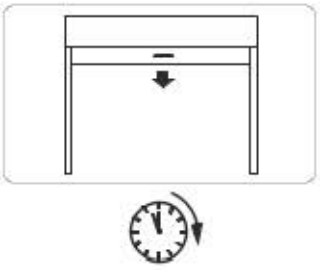
2. Turn dip siwtch ON.

3. Turn Green Dial to disered point. Max time is 4 minutes.

4. Raise door to full up position



5. Time how long it takes to lower. This will let you know if you have the desired time to close or not.



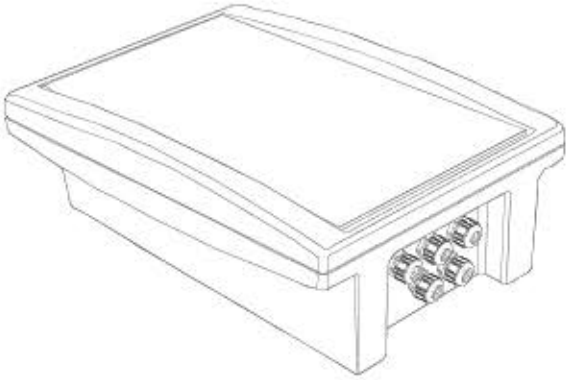
6. Repeat all steps apart from step 2 until door closes at desired time.

12. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
(A) Panel not working	(1) No power	- Check incoming supply
(B) L.E.D on No up/down movement	(1) Stop switch (2) Inertia Brake switch contact broken	- Check stop switch - Check inertia brake switch Terminals 16-17
(C) Door will only go up No down control Sub Note: Press and hold down button on panel, for more than 3 seconds, the doors should go down on Deadman	(1) Photocell dirty lens/reflector (2) Wireless safety edge	- Check, clean or replace, realign - Check synchronize - Check batteries
(D) Door has stopped	(1) As above (2) Motor thermal overload tripped (3) Motor failed	- As above - Wait until motor cools down - Check motor, isolate and connect blue to neutral, black or brown to live.
(E) Up/down panel buttons energise relays on the panel but no movement	(1) As above (2)(3)	- As above
(F) Remote key fob not working	(1) Go to section (B) (2) Battery Low, is the L.E.D on the remote flashing when you press the button	- See section (B) - Change battery
KEY SWITCH		
(G) Turn key Door does not operate	(1) No connection (2) Go section (B)	- Check wiring - see page 15
(H) Turn key door only go up	(1) Photocell / wireless safety edge	- Go to section (C)

13. VERSIONS

- PILOT: Equipment with plastic box housing.



- PILOT-K: Equipment with plastic box housing and push buttons (frontal membrane).

- PILOT-K L: Equipment with plastic box housing and push buttons (frontal membrane) and courtesy light.

Pilot Controller Wiring

Terminal 1 - Supply Neutral

Terminal 2 - Supply Live (Phase)

Terminals 3+4 - Motor Direction

Terminal 5 – Motor Neutral

Earth Connections are made in a piece of connector strip.

Terminals 10+11 - Safety device 24v~ supply.

Terminals 13+14 – Open Safety Entrapment connections (Via Witt AOS7024 Interface + INNO-PRO infra-red Send receive device)

Terminals 14+15 - Close safety Infra-red - Reflective or send + receive.

Terminals 16+17 – Inertia brake connection and – or E stop button

Terminals 19+20 – 12vdc (for 3 wire OSE or 12v beacon).

If your Infra-red device has a test connection, connect to terminal 12 (mute) and switch on DIP 5.

If not using any safety devices fit wire links to terminals 13-14 14-15

Switch on DIP 4 to give deadman down operation.

DIP 1 Auto close function, adjust green potentiometer for waiting time.

NOTE - Anti clockwise is less waiting time (PCB marking is incorrect).

DIP 3 - Deadman open.

DIP 4 – Deadman close.

DIP 5 – IR test input connection (if your IR device has this).

DIP 8 – switch on for wireless optical edge and switch on DIP 2 in optical edge transmitter.

DIP 2,6,7,9 and 10 are rarely used.

Pilot Controller Programming

To pair handheld transmitters, line up the fobs with the keyring at the bottom.

On the PCB you will see a button under the red potentiometer marked PROG TRANS,

Press and hold for 1 sec, the panel will beep, and a red LED will flash once.

Get the fobs and press the top button once on each of them, the controller will beep on each press.

When done wait 5 secs the controller will beep twice, programming of fobs now finished.

To pair the wireless optical edge the button above the red pot marked PROG W BAND,

Press for 1 sec panel will beep then on the OSE transmitter press the button next to the white sticker.

It will automatically pair, once paired the controller will beep.

On the controller, make sure DIP 8 is on and in the transmitter DIP 2 should be on.

In the event of OSE failure, you will be unable to use the fob to close the shutter,

To close the shutter and bring down in deadman , open the controller switch on DIP 4 (installers only).

If shutter stops for no reason, adjust the "working time" pot (red), clockwise to increase run time.

Max time of 4 minutes.

For auto close function switch DIP 1 on and adjust "waiting time" pot for pause time,

Clockwise to increase time.

Fault Finding

***1 - No operation**, Is power LED on, if not check supply voltage.*

Supply is present but no LED – check fuse (rating is 4A).

Check for links in terminals 13-14 and 14-15

If you have any safety devices fitted check for closed circuits.

Check mains wiring terminals 1+ 5 are neutral.

Check inertia brake on terminals 16+17, if no brake fitted, make sure a link is fitted.

***2 – Shutter does not come down;** check your safety devices are not obscured.*

Check the OSE if the controller is beeping then the batteries are low and need changing,

(2x AA 3.6V)

Also check for power on your safety devices. If you cannot resolve any of the above

*switch DIP 4 on to use deadman (you will **not** be able to use the fob to close).*

***3 – Cannot pair fobs,** check batteries does the LED flash when buttons are pressed?*

In some cases, Bluetooth radio interference can stop pairing, in this case the only option is to program the controller outside of the premises.

***4 – Motor runs in wrong direction,** reverse connections on terminals 3+4*

brown + black.

If you have several safety devices in circuit, it is a good idea to check each one individually.

When installing check and test each device as you wire.

Power down when changing batteries in OSE transmitter and

when unplugging and plugging in any of the connectors.

TECHNICAL SPECIFICATIONS	
Power	220V AC +/- 10%
Max Drive Power	1.2 KW
Power Suply for accessories	12V DC / 24V AC
Flashing light output and garage	Relay contact
Garage light time	2 min.
Working Time	From 1 sec to 60 sec
Automatic closing time	From 5 sec to 90 sec
Nº of codes	23 codes
Nº of WirerlessBand transmitters	14 WB 1.0 / 7 WB 1.3 / 7 WB 2.F
Frecuency	433MHz/868MHz
Sensitivity	Better than -105dBm
Distance	100m
Temperature	-20 to 85º

CE DECLARATION OF CONFORMITY
For more information please visit www.aerf.eu

WARNING!!

- Equipment installation and start-up, can only be executed by qualified personnel.

CE