



INSTALLATION INSTRUCTIONS AUTOMATIC SLIDING DOOR OPERATOR

MOVENTIV® 80

by MANTION



SALES DEPARTMENT

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GUARANTEE CERTIFICATE – WARNING

Important safety instructions. Those instructions must be followed in the interest of personal safety; Please keep those instructions.

The MOVENTIV is exclusively designed for opening and closing sliding internal doors. It must not be used for any purpose other than specified in these instructions. The manufacturer or supplier shall not be liable for any damage resulting from improper use thereof. The user alone shall be solely liable and assume any risks arising from improper use of the product.

This door motor must be installed by persons fully aware of the hazards involved in currents, who have the requisite qualifications to work on domestic installations in accordance with good practice.

Follow all the instructions because a faulty installation can cause injury.

The assembly steps must be followed, as must the operating instructions, and safety rules must always be heeded.

Before installing the door motor, check that both the driven part are in good physical condition and the structure has the necessary load-bearing capacity for our product in its entirety.

The electrical installation must be done according to prevailing national standards. The power network must respected the compatibility with the product (voltage and frequency as marked on the product and that of the power network where it will be used.) Do not connect the device before checking that the control circuit is without voltage.

Check the installation frequently to detect any imbalances or signs of wear or damage. Do not use the device if it needs repairing or adjusting.

Disconnect the power supply when cleaning it or carrying out other maintenance or servicing tasks.

Never modify (drilling or recut) or fit any additional parts to the device that may compromise safety without MANTION's written permission.

The user alone is solely and entirely responsible for any breach of these safety rules, and any damage resulting there from.

The product must be stored indoors in a dry place at a temperature of between 0°C and +50°C.

When fitting it, the installation engineer must heed accident prevention instructions and the standards in force in the country.

The installer has to check that the recommended temperature range for the device is appropriate to its location.

Do not immerse the product in water or splash it.

Do not dispose of it in fire or bring it into contact with flame or any heat source.

Do not use household products or chemicals to clean it.

Do not dispose of the packaging in the environment; treat waste according to the standards in force in the country.

Keep products, devices and documentation out of reach of children.

Do not let children play with the fixed control devices. Keep remote controls out of reach of children.

The appliance can be used by children at least 8 years old and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision and instruction for a safe use. Children must not play with the appliance. Cleaning and maintenance must not be carried out by unattended children.

The manufacturer or supplier shall not be liable for any damage resulting from any other use of the product. If replacing the product, only use MANTION or MANTION-approved products.

TERMS OF THE GUARANTEE

MANTION products come with a 5 (five) years guarantee from the date of delivery. The guarantee is limited, as decided by MANTION, either to replacement or to repair of products that MANTION recognizes as faulty, with the proviso that:

1. Subject to MANTION's written permission to return the products, the said products are returned to MANTION forthwith with the details of the fault and a copy of the installation engineer or dealer's bill stating the date of installation.
2. The products have been stored, installed, maintained, and used in accordance with MANTION's instructions and specifications.

The guarantee is strictly limited to the provisions of this clause, and any other guarantee or liability, including loss of profits or damage directly or indirectly resulting from the sale or use of the products, is excluded.

MANTION shall in any event only be liable for the MOVENTIV product. The guarantee does not apply in case of overvoltage or short-circuiting resulting for instance from connection errors, weather conditions such as lightning etc. The guarantee does not cover normal wear.

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1. Technical characteristics

This product automates the opening and closing sliding doors (it is designed for domestic and professional use).

General information

Designation	Sliding interior door motor
Technologie	Linear magnetic system
Supporting profile dimension (I x H)	53 x 63mm
Product weight	17 kg
Permissible door weight	20 – 80 kg
Max door speed	600 mm/s
Guarantee	5 years

Electrical

Power supply	110 – 230 VAC - 50/60 Hz
Nominal consumption	65 W
Electric protection	Internal fuse 4 AT

Environment

Protection rating	IP 20
Temperature range	+5 °C < T < +40 °C
Operating noise	≤ 55 dB

Connection / coordination option

Connectivity	Wireless 433,92 MHz Bluetooth (BLE 4.1)
Command	Wired : Push button or radar Wireless : Remote control 433MHz Bluetooth : smartphone application (Android and IOS)
Light output	Manipulated by an opening command
Lock output	Lock connection (24 VDC, 1 A max.)
Safety	Possibility to connect a safety input (type immaterial barrier)
Operating mode	Automatic : Push & Go – Push button (Closing after timeout) Permanent opening : Door stay open
Modification	No modification of the equipment, drilling or recutting is accepted

Normative / directive conformity

Safety of use	EN60335-1, EN60335-2
Electromagnetic compatibility	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Directive	2011/65/UE : ROHS 2014/35/UE : Low tension 2004/108/EC : Electromagnetic compatibility (EMC)

2. Commissioning procedure MOVENTIV

A	Installation of the door operator	Mechanical installation of the unit in its final operating position, wall or ceiling mounting See Chapter 3
B	Stops adjustment	Adjusting the position of the opening and closing stops See Chapter 4
C	Electrical connection  Always work without power 	- Connecting various accessories - Connecting the product to the power supply See Chapter 5
D	Function of the various Dip Switches	Designation et function of the various Dip Switches See Chapter 6
E	Commissioning	Start product See Chapter 8
H	Smartphone connection	- Connection for Android and IOS smartphones - Method of setting parameters via the application See Chapter 9
K	Wireless pairing	Method of pairing different remote controls or switches to the motor See Chapter 10

3.Installation of the door operator

For surface or ceiling mounting, for wooden or glass doors, please refer to the relevant mounting instructions.

Ex : Wooden door : NM_MOVW_001.

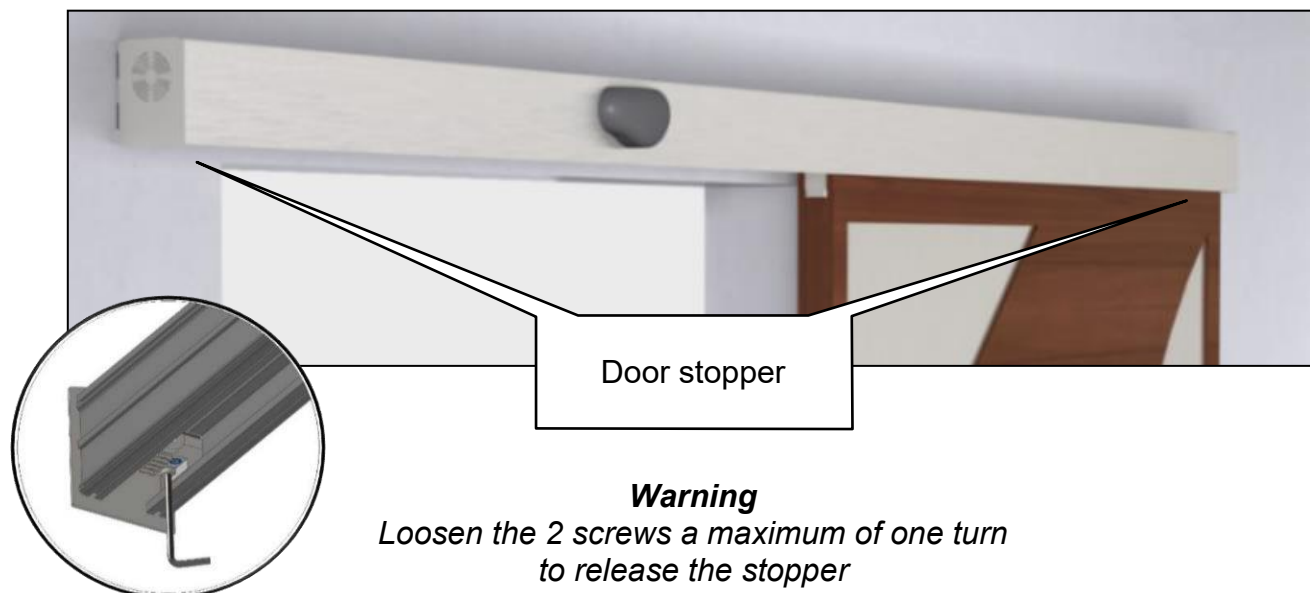
Glass door : NM_MOVG_001.



4. Door stops adjustment

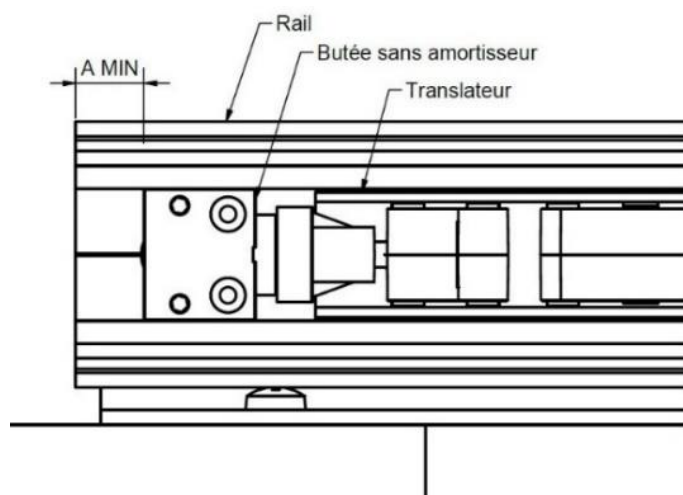
4.1. Stops adjustment

The adjustment of the door stops is done by the fixed elements present in the rail, a stop must be installed in opening, another in closing. The adjustment is made using the 3mm Allen key supplied in the kit.



Once the stops are loose and free to move, maneuver the door to the desired opening and closing positions, then retighten the stop screws (see wood or glass door assembly instructions)

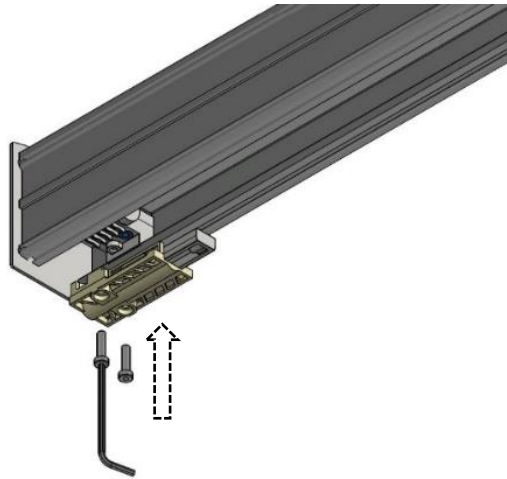
Warning ! Once the door is in position, check the limit positions of the opening and closing stops.



Référence	A mini (mm)
K0001520	15
K0001530	20
K0001540	10
K0001550	10

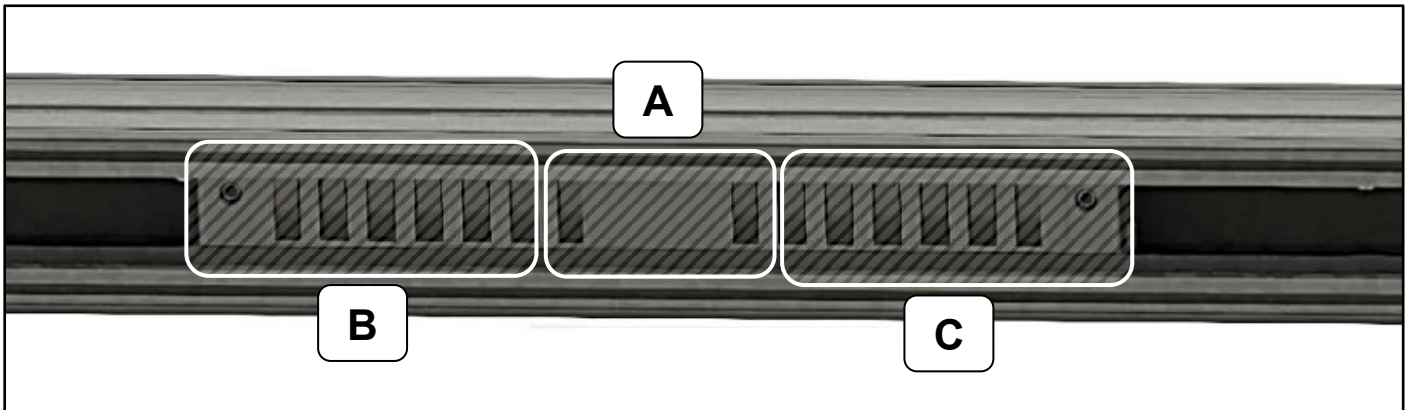
Failure to respect this distance may cause the product to malfunction!

When all the stops are fixed in position and the recommended distance limits are respected, you can install the shock absorbers on the stops using the 2.5mm Allen key supplied in the kit.



4.2. Control door adjustment

Warning, after adjusting the stops, zone A must never be visible whatever the position of the door, otherwise modify the position of the stops.
Areas B and C may be visible.



4.3. Stop position adjustment

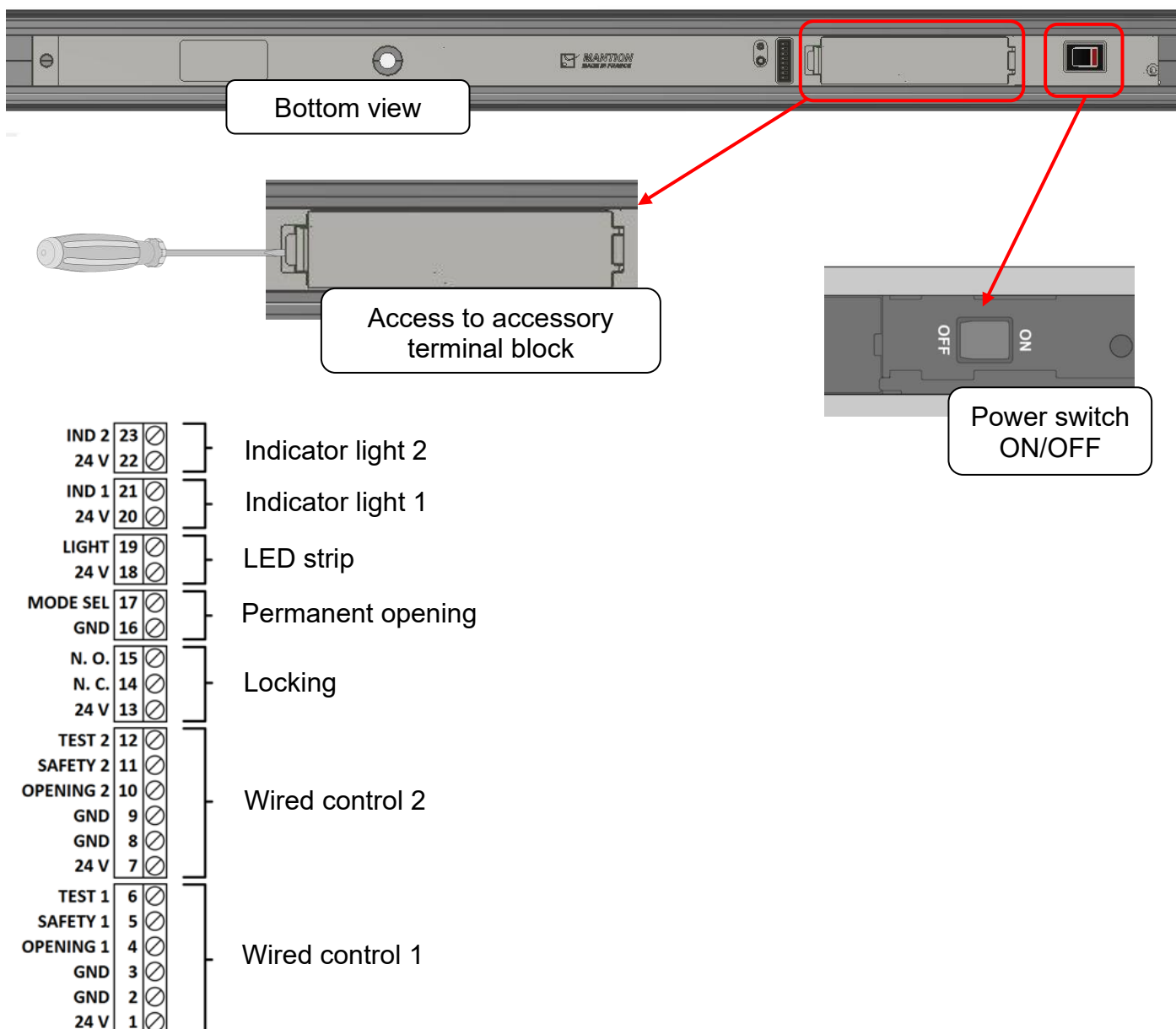
The position of the assembled stop with its piston can be adjusted subsequently if necessary.
It is not necessary to remove the piston from the stop, access to the 2 tightening screws is through the piston support.
Loosen the 2 screws by a maximum turn, adjust the position of the stop with piston then retighten the assembly.

5. Electrical connection



Pay attention to your safety:

- The electrical installation must be carried out in accordance with the national standards in force, as well as any obligations foreseen by the law and/or by all obligations in force, laid down for this purpose.
- The electrical connection must take place without voltage: do not connect the sector before having disconnected all assembly operations.



By default, there are 2 bridges placed between the "SAFETY" and "GND" terminals of the wire control terminals, and 1 bridge placed between the "MODE SEL" and "GND" terminals of the permanent opening terminal. They are necessary for proper operation and should only be removed when a safety device is used.

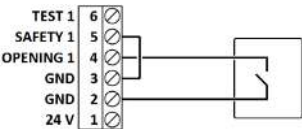
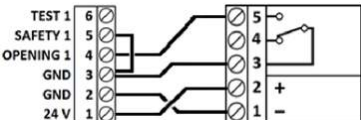
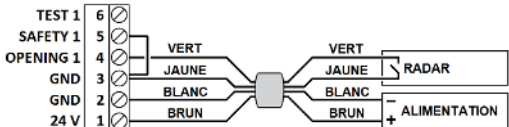
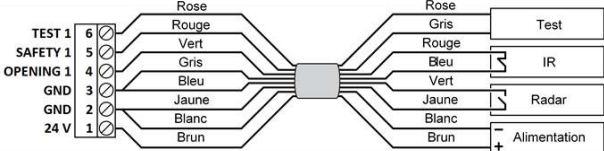
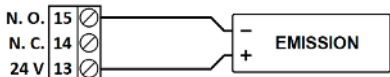
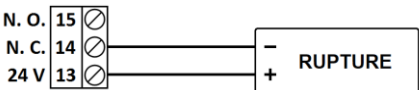
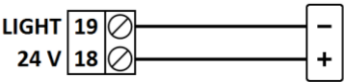
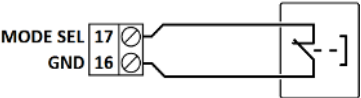
5.1. Terminal blocks

Function	Functionality description	Peripherals characteristics	Abbreviation	Terminal / connection description
Indicator light 1	Is activated when a maintenance of the device is necessary (after 100 000 cycles).	Power consumption: 100 mA max (2,5 W in 24 V).	IND 1	Connect one of the two wires of the indicator light on this terminal.
			24V	Connect one of the two wires of the indicator light on this terminal.
Indicator light 2	Is activated when the door is doing an opening/closing cycle.	Power consumption: 100 mA max (2,5 W in 24 V).	IND 2	Connect one of the two wires of the indicator light on this terminal.
			24V	Connect one of the two wires of the indicator light on this terminal.
LED strip	Is active when the door is doing his opening - closing cycle. Possibility to deactivated via the application.	Power consumption: 400 mA max (9 W in 24 V).	LIGHT	Connect the terminal "-" (GND) of LED strip on this terminal.
			24V	Connect the terminal "+" (24V) of LED strip on this terminal.
Permanent opening	If the input is activated, the door opens and stays open, till this input go to 0.			If, MODE SEL terminal is connected to GND, the function is not active.
Locking	It allows to use a locking system with a power applied or removed (suction or electromagnet).	Power consumption: 1 A max (24 W in 24 V).	N.O.	Connect it, if the locking system is used with a power applied is used.
			N.C.	Connect it, if the locking system with a power removed is used.
			24V	Connect one of the two wire of the indicator light on this terminal.
Wired control 1	It allows to use a radar system.	Power consumption: 200 mA max (5 W in 24 V).	TEST 1	Connect to the input Test radar (necessary to be conform to the standard EN16005).
			SAFETY 1	The door stays open if it's not connected to GND.
			OPENING 1	The door is open (to use with the commun wire GND).
			GND	Commun wire used for TEST, SAFETY and OPENING.
			GND	Radar power.
			24V	
Wired control 2	It allows to use a radar system.	Power consumption: 200 mA max (5 W in 24 V).	TEST 2	Connect to the input Test radar (necessary to be conform to the standard EN16005).
			SAFETY 2	The door stays open if it's not connected to GND.
			OPENING 2	Opening door (to use with le commun wire GND).
			GND	Commun wire used for TEST, SAFETY et OPENING
			GND	Radar power
			24V	

5.2. Peripheral wiring



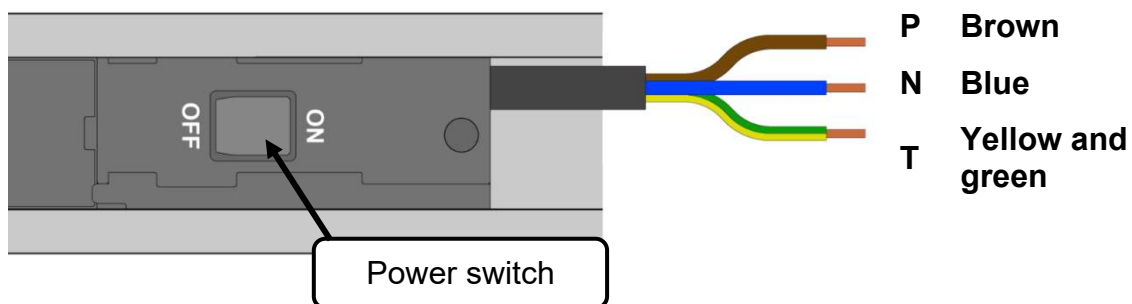
NB : A clamp is provided in the MOVENTIV Kit, facilitating access to the terminal block

C0001290 Push button 		Add a bridge between terminals 3 and 5. And deactivate the corresponding "radar test" switch (chapter 6)
C0001300 Contactless switch 		Add a bridge between terminals 3 and 5. And deactivate the corresponding "radar test" switch (chapter 6)
Motion detector / Radar 		Add a bridge between terminals 3 and 5. And deactivate the corresponding "radar test" switch (chapter 6)
Motion detector / radar with safety IR and test 		See test radar section (chapter 11.5)
Transmitter lock system (lock without Voltage)		
Breakaway locking system (unlock without voltage) 		Limite de 2A (2 ventouses)
Lighting indicator		24 VDC Pmax : 2,5W
K0001490 LED strip 		24 VDC Pmax : 9W
Emergency stop 		

5.3. Connecting the power supply

The installation must be equipped (P, N, T) with a disconnecting switch and an external two-pole circuit breaker (or switch) on the primary side, to isolate the product if necessary.

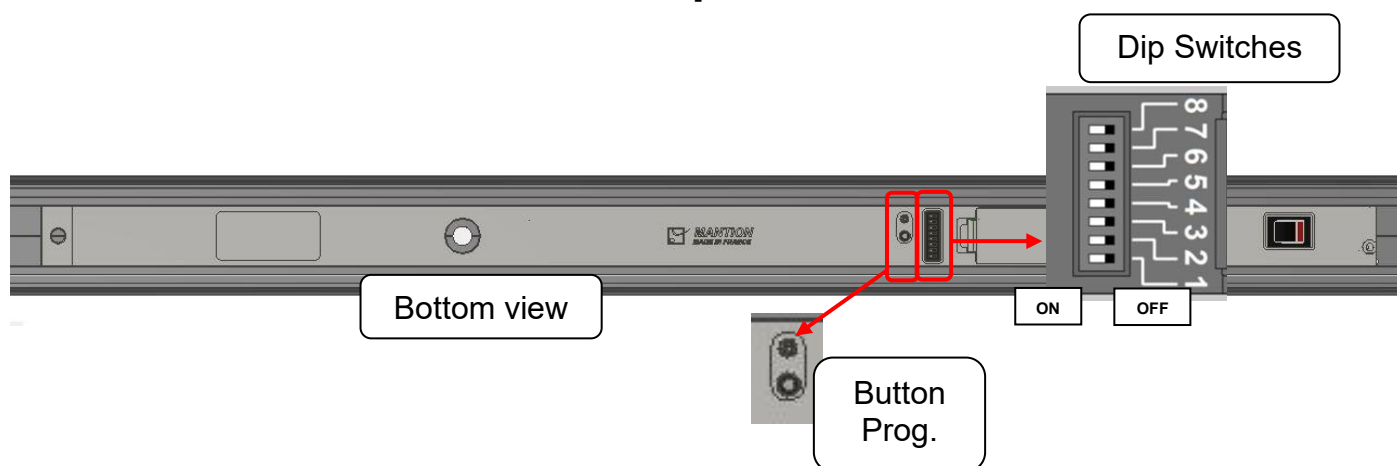
Power supply voltage	110 – 230 VAC
frequency	50/60 Hz
Nominal consumption	65 W
Recommended power cable	Minimum 3G0,75 mm ²



Terminals	Conductor	Color
P	Phase	Brown
N	Neutral	Blue
T	Terre	Yellow and green

NB : To replace the power cable, contact customer service or an authorised person.

6. Function of the different Dip Switches



Switch	OFF	ON	Config par défaut
1	Radio and Bluetooth pairing : -Short press on the program button : Start radio (433Hz) and Bluetooth pairing -Long press on the prog button: Remote control removal	Learning door stops : -Short Press on BP: search of stops -Long Press on BP: Setting reset	OFF
2	Door closed to the side of electrical housing	Door closed to opposite side of electrical housing	OFF
3	Automatic closing of the door (Tempo setting on the application)	Opening and closing of the door on request	OFF
4	Bluetooth deactivated	Bluetooth activated	ON
5	Push and Go deactivated	Push and Go activated	OFF
6	Function test radar 1 deactivated	Function test radar 1 activated (see test radar section, chapter 11.5)	OFF
7	Function test radar 2 deactivated	Function test radar 2 activated (see test radar section, chapter 11.5)	OFF
8	Not used	Not used	OFF

7. Commissioning

- Check that the power switch is in the « OFF » position ;
- Check that there are no obstacles that can interfere with the movement of the door or the motorised system ;
- Move the door manually, the movement must be smooth and without jerks, in case the door is blocked refer to the assembly instructions NM_MOVW_001 ;
- Improper installation, misalignment of the door or high friction may affect the proper functioning of the product ;
- Check that the stops have not moved and that their placement is in accordance with the recommendations in Chapter 4 (notch n°7 not visible)
- Switch the power switch to « ON » without touching the door;
The door is in the teach-in state. This is indicated by the steady green LED ;
The operator will not operate until the end stops have been taught.
- Give the door a push in the opening direction ;
Do not interact with the door during the learning cycle ;
LED changes to flashing green ;
The system starts its stop learning cycle, the door performs a round trip at low speed, then performs a full cycle at standard speed to validate its learning cycle.
- The door is ready for operation

***NB :** If, after completing the learning cycle, the door is open instead of closed, set switch 2 to the opposite position and then start a new learning cycle (see Chapter 11.4).*

8. Mandatory settings

For optimal operation, your motor needs to know the weight of your door.
To do this, follow these steps :

8.1. Using the app on Android

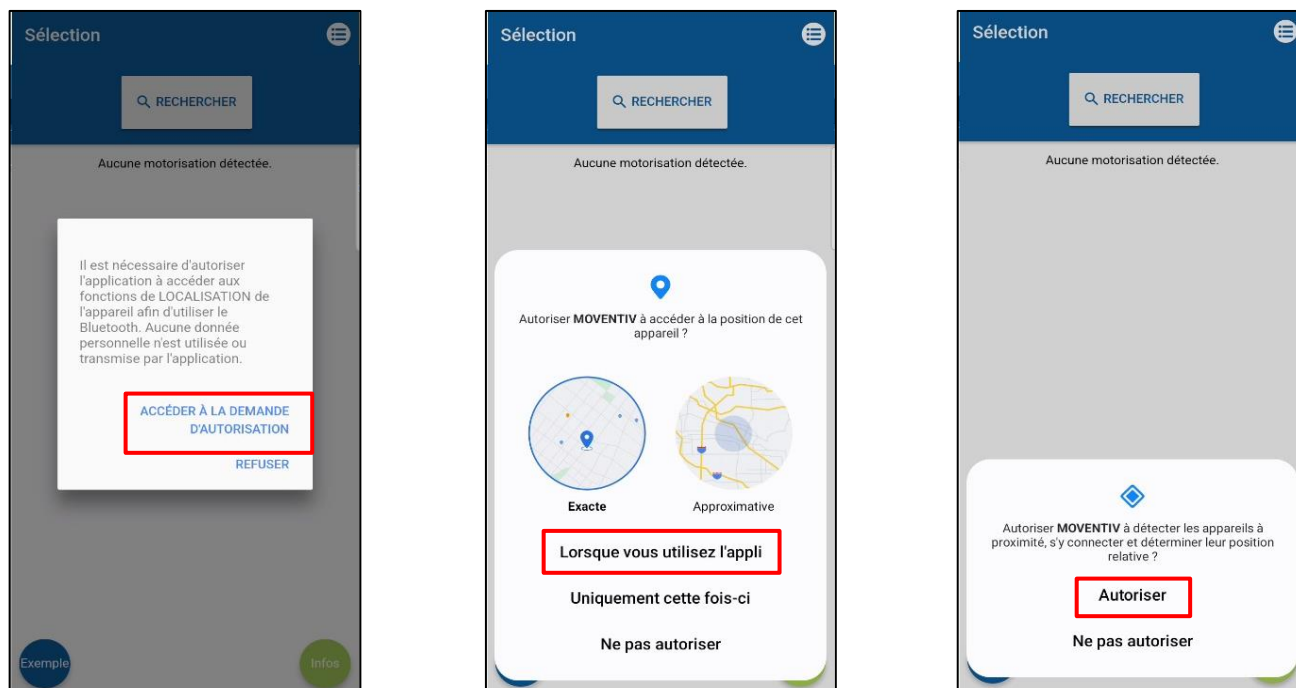
- To install the application, search on Play Store for the MOVENTIV application (or flash the following QRCode)



- When you launch the app for the first time, the app will ask you to accept LOCATION and Bluetooth permissions.

These authorizations are necessary for the proper functioning of the application (the localization allowing the smartphone to pair with BLE devices, such as your new MOVENTIV).

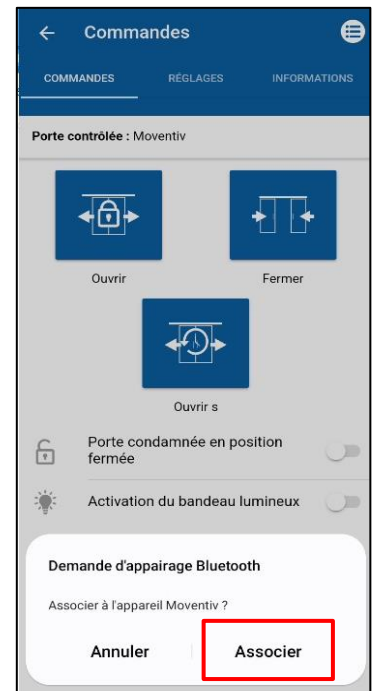
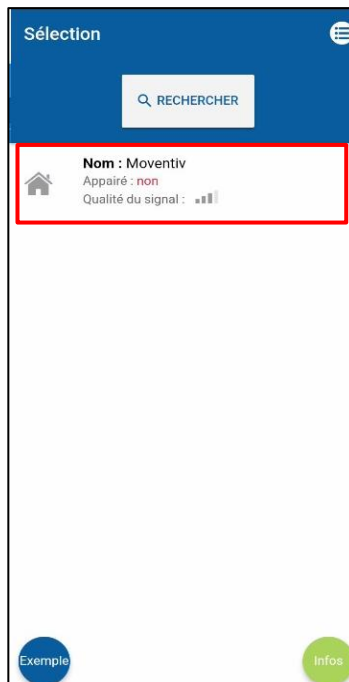
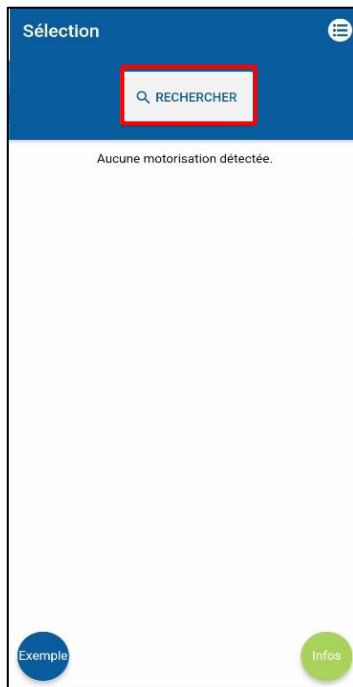
NB : NO DATA IS TRANSMITTED TO US VIA THE APPLICATION



- On your MOVENTIV, position switch n°1 on OFF and check the position of switch n°4 on ON (see chapter 6)

Tip: if your door is located below the configuration switches and you have carried out the first learning procedure (see 7. Commissioning), you can handle your door without risk and therefore access these buttons.

- On the smartphone, go to the pairing menu (usually: settings > connections > Bluetooth) then search for nearby devices.
- Once the "MOVENTIV" device is available, briefly press the programming button on the controller. The LED lights up fixed magenta (product in "addition of peripherals" mode) Within 10 seconds of pressing the programming button, connect to the "MOVENTIV" device



You are now connected to your MOVENTIV!

8.2. Using the app on IOs

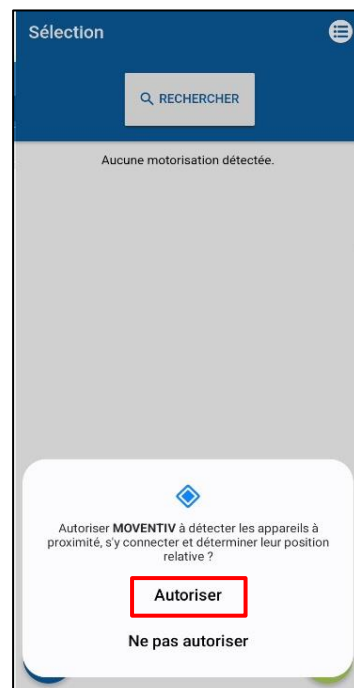
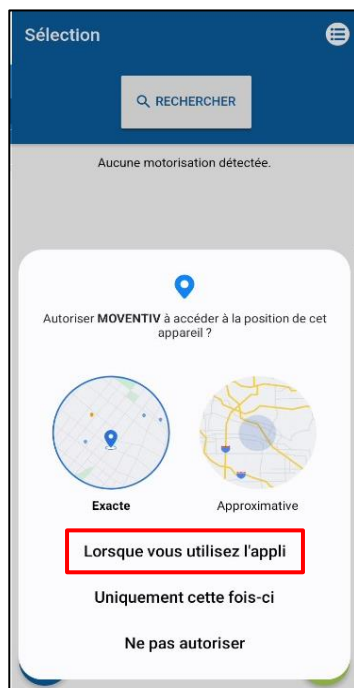
- To install the application, search on App Store for the MOVENTIV application (or flash the following QRCode)



- When you launch the app for the first time, the app will ask you to accept LOCATION and Bluetooth permissions.

These authorizations are necessary for the proper functioning of the application (the localization allowing the smartphone to pair with BLE devices, such as your new MOVENTIV).

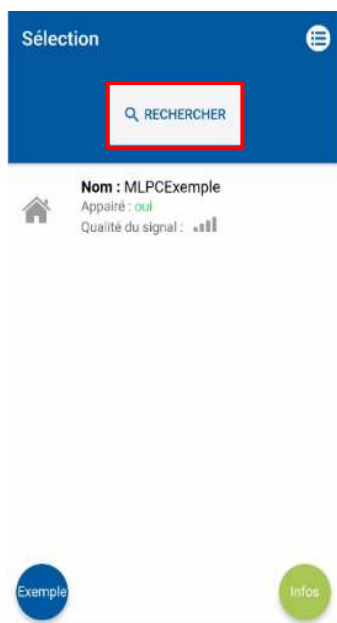
NB : NO DATA IS TRANSMITTED TO US VIA THE APPLICATION



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Tip: if your door is located below the configuration switches and you have carried out the first learning procedure (see 7. Commissioning), you can handle your door without risk and therefore access these buttons.

- On the application, start a search for nearby devices.
- Once the "MOVENTIV" device is available, briefly press the programming button on the controller. The LED lights up fixed magenta (product in "addition of peripherals" mode) Within 10 seconds of pressing the programming button, connect to the "MOVENTIV" device.



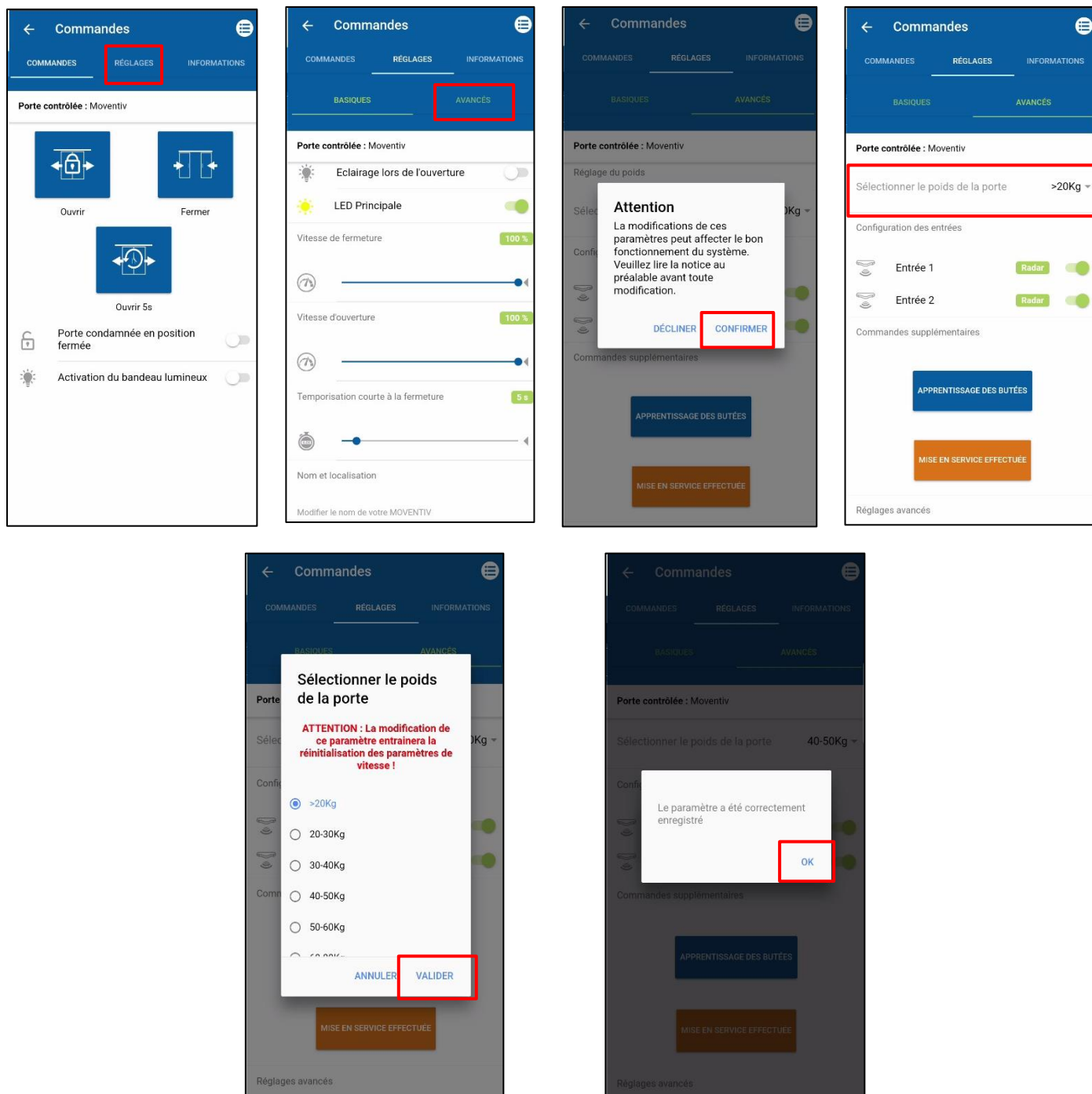
You are now connected to your MOVENTIV!

8.3. Setting

If you did not encounter any problems during your pairing phase, you are now on the “Order” tab. First of all, it is necessary to configure your motor for your door.

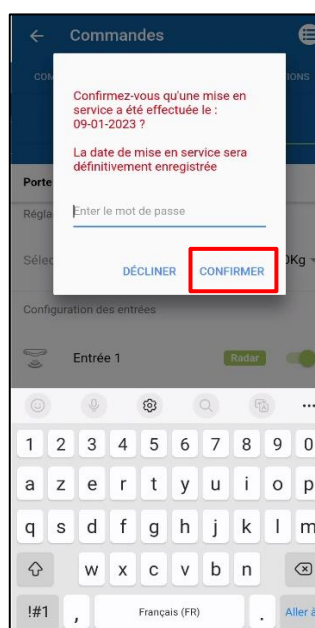
To do this, go to the “Settings” and “Advanced” tab.

Press "Select door weight", then click on the weight range corresponding to the weight of your door. Once validated, a message will confirm that your MOVENTIV has been configured for your door.



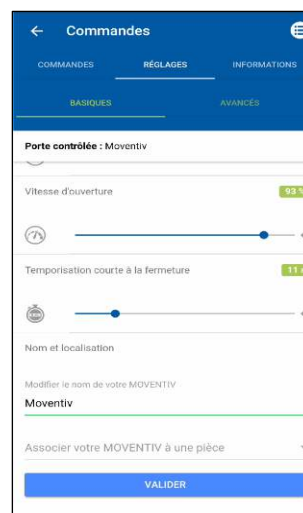
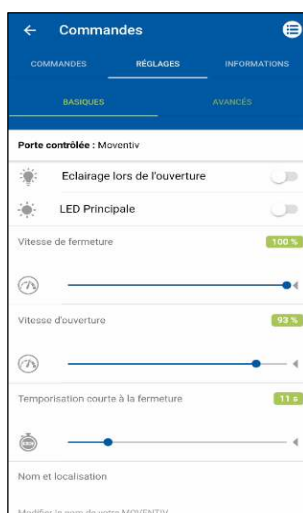
Once this setting has been made, return to the "Basic" tab to personalize your door. Here you can set the speed, the waiting time for automatic mode and the name of your MOVENTIV.

Once your settings have been made, return to the "Advanced" tab, then click on "Commissioning done" and enter the password: MovMaint



9. Parameters adjustable by smartphone application

Opening speed	300 – 600 mm/s
Closing speed	Plage : 150 – 300 mm/s
Opening end speed Closing end speed	Allows you to adjust the soft docking of the stops
Opening braking force	Allows you to adjust the braking according to the weight of the door
Time delay before closing	0 – 60 s



10. Mode of operation

Push and go : switch n°5

Move the door manually in the opening direction to start the opening cycle

Move the door manually in the closing direction to start the closing cycle

Opening / closing by push button :

The door opens when the push button is pressed (or the door is moved by hand if the Push and Go option is activated)

If the push button is pressed a second time during the closing cycle, the door opens again.

If the push button is pressed a second time during the open cycle, the door will remain in the open position until a close command is sent (if switch 3 is OFF)

Opening by mobile application:

The mobile application allows the door to be operated remotely via a smartphone.

Opening by presence detection (radar):

The door opens when the device detects the presence of a person, the sensitivity of the sensor can be adjusted. (see radar manual)

11. Smartphone Connection

- a. Put the switch n°1 on OFF ;
- b. Press and hold the programming button (about 5 sec)
The LED flashes and then goes out: no transmitter or smartphone is paired.
- c. In the case of deleting one or more Bluetooth devices, the device must also be deleted from the paired smartphone(s) (refer to the operating instructions of the Bluetooth devices).

NB : When the card is in the "add peripherals" state (the LED is lit solid magenta), any inaction for more than 10 seconds or pressing the programming button again will cause it to leave this state.

In case of bad reception, use the radio repeater ref.C000476

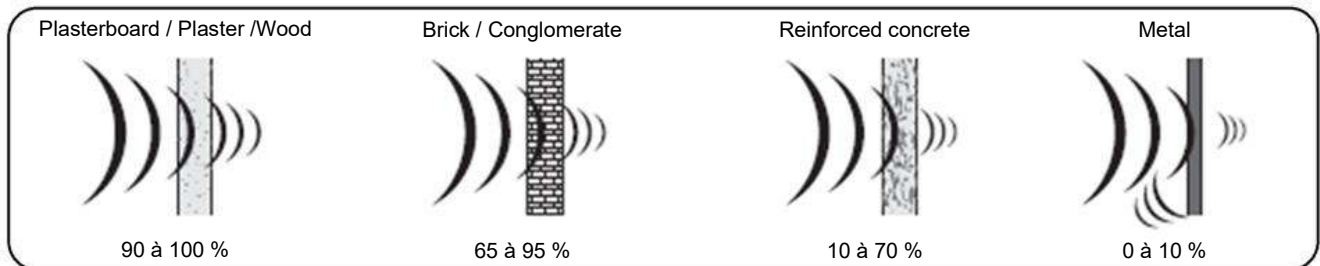
12. Radio pairing (Radio version only)

12.1. Spécifications radio

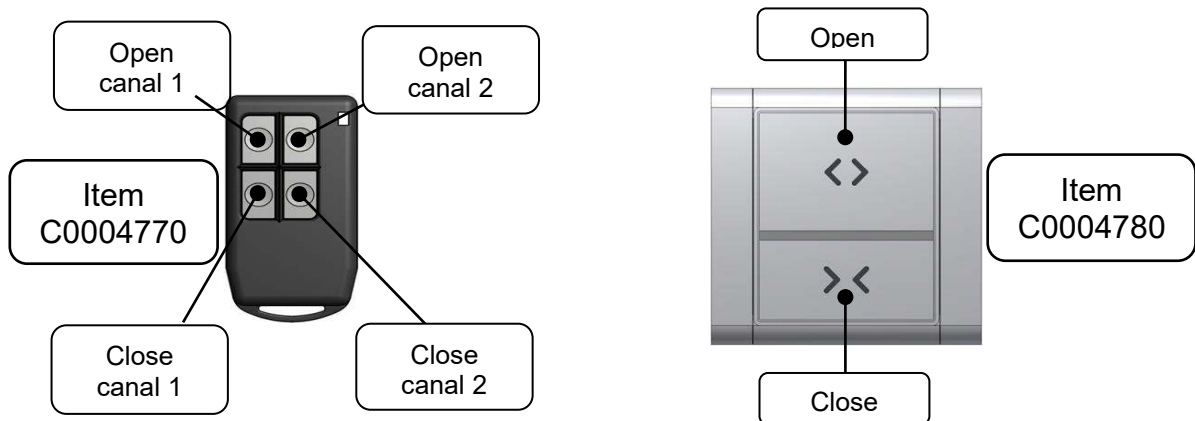
Frequency: 433.92 MHz

Transmitter range: about 70 m line-of-sight *

* Propagation of radio waves varies according to the medium they traverse. The range of the radio waves will vary according to the type of construction :



In case of bad reception, use the radio repeater ref. C0004760.



12.2. Pairing a switch or a remote control (transmitter)

- Put the switch n°1 on OFF ;
- Short press on the programming button ;
LED lights up solid magenta (card in "add devices" status)
- While the LED is lit : press « open » and « close » on the transmitter simultaneously ;
LED flashes twice and then goes out : the switch is paired.

NB : it's possible to pair several products on a same switch, or several transmitters on the same product. For that, repeat the operations bellow.

12.3. Disabling a switch or a remote control (transmitter)

- Put the switch n°1 on OFF ;
- Short press on the programming button ;
LED lights up solid magenta (card in "add devices" status)
- Make a second short press on the programming button ;
LED flashes slowly in magenta (card in "delete devices" status)
- While the LED is flashing, press "open" and "close" simultaneously on the already paired transmitter
The LED flashes 5 times rapidly: the switch is deleted.

12.4. Deleting all transmitters: radio switch(es) and remote control(s)

- Put the switch n°1 on OFF.
- Press and hold the programming button (about 5 sec)
The LED flashes and then goes out: no transmitter or smartphone is paired.

Note: This operation also deletes all Bluetooth devices (see chapter 9.3).

13. Additional information

13.1. LED instructions

Color	Statut	Signification
Deep blue	Fixed	Power failure
	Flashing	Stop search in slow speed
Light blue (cyan)	Flashing	Opening or closing in progress
Green	Fixed	Waiting for learning
	Flashing	Learning in progress
Purple (magenta)	Fixed	Pairing mode
	Flashing	Delete mode
	Fast flashing	Radio or Bluetooth command validation (add or delete)
Yellow	Flashing	Door in operation: OPENING, SAFETY or MODE SEL input open
Red	Flashing	Radio pairing problem Stop on obstacle

13.2. Restart after a power failure

In the event of a power failure, the door can be operated manually in both directions. Once the power is restored, the door is in a waiting state indicated by the fixed dark blue indicator light. On the first command received, the door opens and closes at slow speed

13.3. Restart after an obstacle detection

In case of an obstacle detection at opening, the door stops. At the first command received, the door ends its travel or closes (depending on the command received).

If an obstacle is detected during closing, the door opens again. Depending on the operating mode :

- In automatic mode, the door tries to close after the time delay. If the door has not closed after the attempt, it remains locked open and waits for a command to close.
- In manual mode, the door waits for a command to close.

13.4. Manual learning

- a. Put the switch n°1 on OFF.
- b. Short press on the programming button.

LED lights up solid green.

Give the door a push in the opening direction

The door moves back and forth at slow speed and then back and forth again at fast speed.

The LED flashes green

- c. Once the 2 round trips have been completed, the door is ready for operation

NB : Si, après avoir effectué le cycle d'apprentissage, la porte est ouverte au lieu d'être fermée, mettre le switch 2 dans la position opposée puis relancer un apprentissage.

13.5. Radar test

At the first start, set the radar test switch (switch 6 or 7) to ON ;

Start a learning cycle (see chapter 11.4);

When the learning cycle ends, the MOVENTIV equipment will launch a radar test;

If the test is OK, the door closes and switches to normal operation, set the corresponding switch (6 or 7) to OFF.

If the test is not OK, the main LED will flash rapidly in red, refer to the radar manual.

13.6. Passwords (advanced settings)

Advanced setting option	WidoorSAV
Maintenance menu	MovMaint

14. Diagnostic support

Symptom	Possible causes	Solution
The motor does not work.	Incorrect connection of the power supply.	Check the power supply connection (chapter 5.3)
	The teach-in procedure is not carried out correctly.	Start the teach-in procedure (Chapter 13.4).
Door closes when opening is requested.	Motor direction is reversed.	Reverse switch 2.
Door opens after closing.	Obstacle present (red LED flashes).	Remove the obstacle.
	The teach-in procedure is not carried out correctly.	Start the teach-in procedure (Chapter 13.4).
Door hits the stop hard during a teach-in operation	Speed is too high	Reduce speed using the application parameters
The door does not open on a wired control (button).	Incorrect connection of the control unit.	Check the connection of the control unit (chapter 5.2).
	The teach-in operation is not carried out correctly.	Start the teach-in procedure (Chapter 13.4).
Teach-in is carried out and the door does not open on a radio control.	Transmitter batteries are defective.	Check and, if necessary, replace the batteries in the control unit.
	The teach-in operation is not carried out correctly.	Start the teach-in procedure (Chapter 13.4).
	The radio control has not been paired.	Pair up the radio control (Chapter 12.2).
The door struggles to open.	The door is not properly installed.	Check the installation of the door: it must be easy to operate by hand.
	The motor speed is too low.	Adjust the door speed using the parameters
The MOVENTIV does not appear during the Bluetooth search	Switch n°4 OFF	Switch n°4 ON
	Issues with the smartphone's BLE communication	Restart the smartphone
MOVENTIV appears but cannot be connected	Other device nearby already connected	Unpair the device in question

	General deletion of all transmitters	Delete the existing pairing with the MOVENTIV from the phone, then repeat the pairing procedure
	Application or Smartphone is not update	Update your application or smartphone
	Issues with the MOVENTIV's BLE communication	Restart the MOVENTIV by ensuring that Switch n°4 is ON

[illegible]