

433,92 MHz

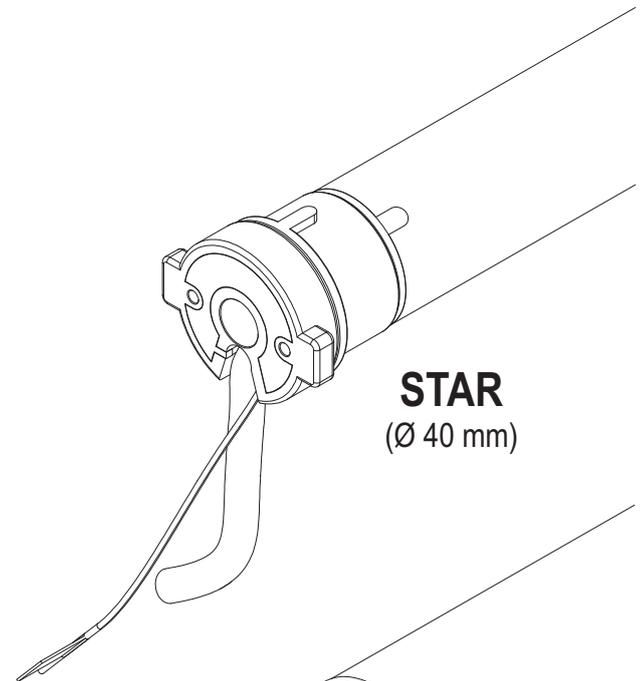
MASTER[®]
MOTION AHEAD



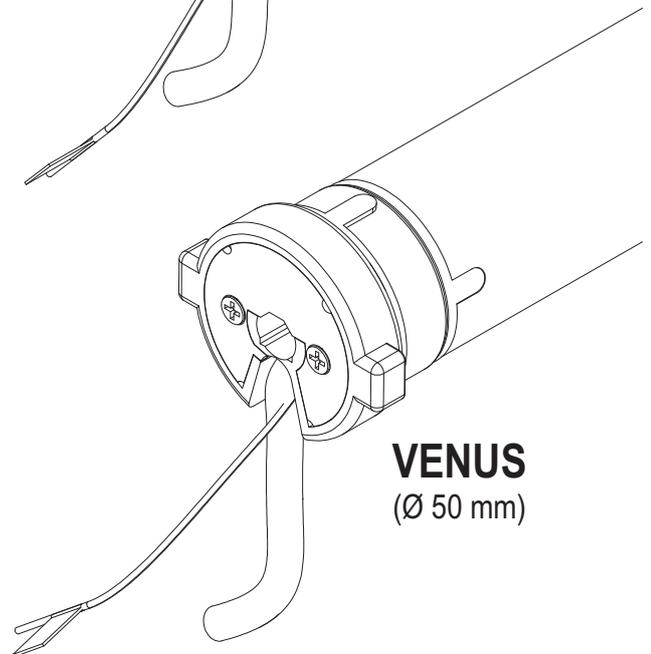
Instruction guide for tubular motors with radio electronic limit switch.

IM PUL SE FOR MO TION

CE



STAR
(Ø 40 mm)



VENUS
(Ø 50 mm)



Warning



Dear customer, thank you for purchasing a MASTER product.

This leaflet contains important information regarding the methods of use and the safety of installation. **Comply with the following information and keep them for future reference.** The tubular motor with radio electronic limit switch STAR and VENUS series are suitable to command awnings, roller shutters and similar. Any other use is improper and forbidden and it could void the manufacturer's warranty. The technical characteristics are provided on the label attached on motors. These devices have not been studied to a continuous working.

FOR A CORRECT INSTALLATION, IT IS ADVISABLE TO READ THIS GUIDE.

The manufacturer cannot be considered responsible for any damages, wrong or unreasonable use.

Environmental conservation !



Environmental conservation is an everyone's duty !

MASTER uses packaging recyclable materials. Dispose materials on the proper containers, complying with the law in force in your locality.

If you are an installer and you use many motors, please ask for cavaties box packaging to your retailer or to the manufacturer, this is an environmental respectful choice, that limits waste and considerably reduce the packaging materials.

This product may have substances that are polluting for the environment and dangerous for the health.

At the end of the product life cycle, carefully comply with the waste disposal rules. It is strictly forbidden to dispose the product on the domestic waste.

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01. Warning for the installation.



01. The product must be installed by qualified technical personnel so as to comply with the standards and laws in force in your locality.
02. Check that the package is intact and has not suffered damages in transit.
03. The motor is connected to dangerous electrical voltage. **Carry out the connections with the power supply disconnected.**
04. Always connect the ground wire (yellow/green) and respect phase (L) and neutral (N) of the power supply.
05. Command buttons are connected to the main voltage, so they must be properly insulated and protected.
06. The installer is obliged to fit an isolation device (with 3 mm minimum opening on the contacts) upstream of the system.
07. Do not modify or replace parts without the manufacturer's permission.
08. If the installation is on roller shutter or similar, check that there is no friction for the correct movement.
09. If there are several radio motors in the same system, the minimum distance between them must not be less than 1,5 metres.
10. Do not install the device near metal surfaces.
11. The motor must be of sufficient power for the applied load.
12. Use 10/10 thick winding rollers.
13. Check that adapters are of suitable shape and size for the winding roller.
14. Adapters and supports for the motor must be chosen among the current MASTER catalogue.
15. A violent shock and the use of unsuitable tools can cause the brackage of internal or external part of the motor.
16. It is forbidden to drill or tamper the motor.
17. Do not handle motor by the cable.
18. Any screws used for completing the installation must not touch the motor.
19. The power supply cable must not touch the moving parts.
20. The motor is provided with an internal self-resetting thermal safety device, that stops the motor if it overheats. The motor starts its normal operation when the temperature lowers under the safety limit (usually around 10 or 20 minutes).
21. The motor must be installed in such a way that it cannot come into contact with liquids.
22. It is forbidden and dangerous to cut the antenna wire.
23. For your safety, it is forbidden to work near the winding roller when the motor is being supplied with power.
24. Warning, after a brief working period the motor overheats, act cautiously.
25. There must be 1-2 mm of right/left play on the winding roller.
26. In case of malfunctioning do not keep on trying on the command, but call a qualified technical personnel.

02. Important note on radio system.

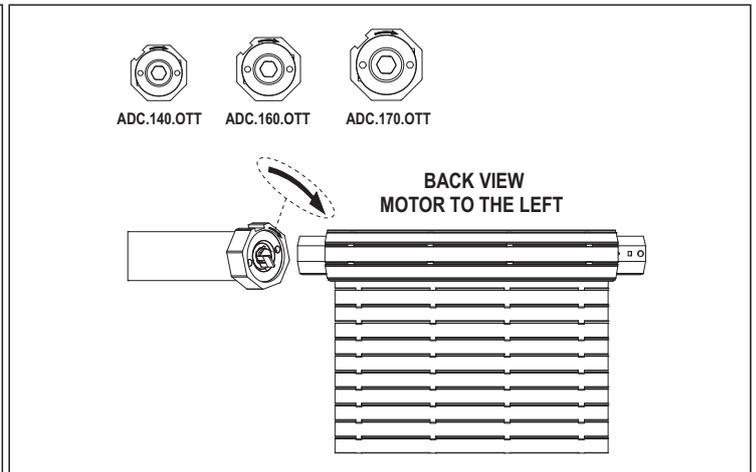
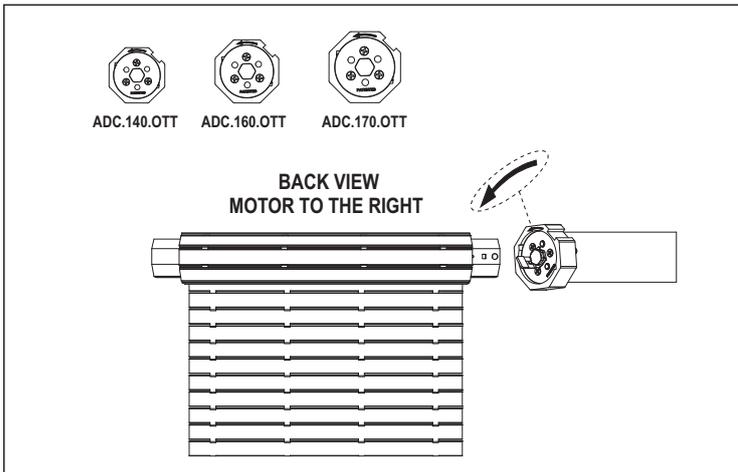
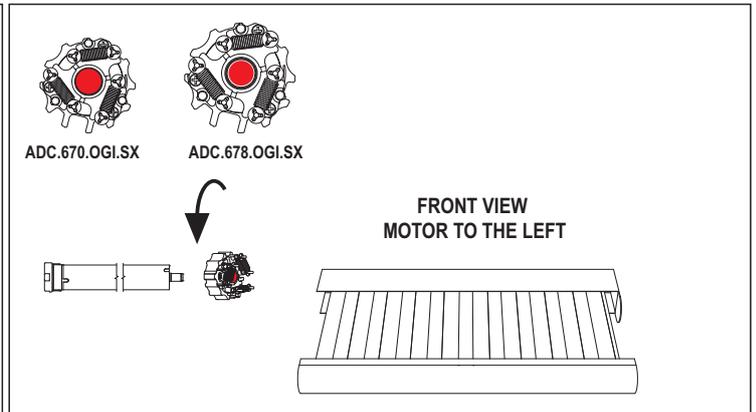
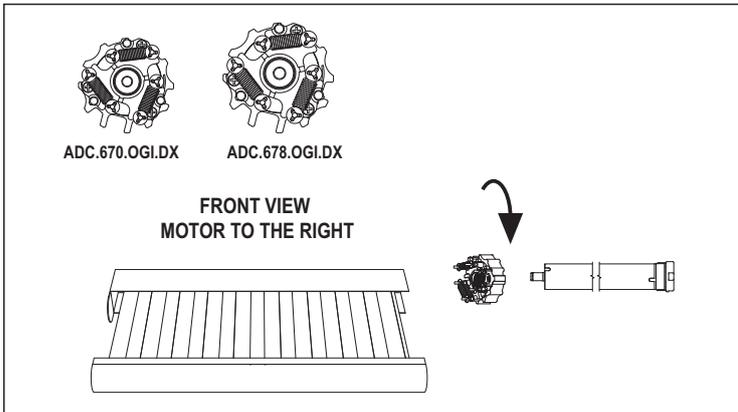


It is advisable **to avoid using radio systems in areas with strong interference** (for example, near police stations, airports, ports, hospital, etc.). A technical inspection is in any case advisable before installing any radio system in order to identify sources of interference.

Radio systems can be used where possible disturbances or malfunctioning of the transmitter or the receiver do not cause a risk factor, or if the risk factor is cancelled by suitable safety systems.

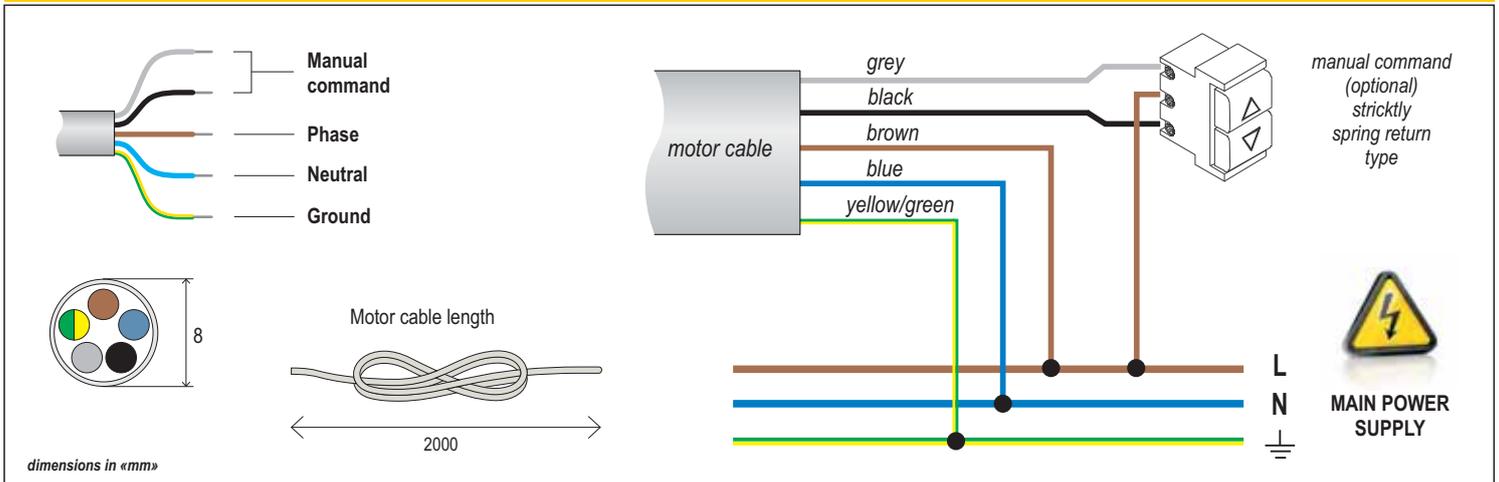
The presence of radio device operating on the same transmission frequency (**433,92 MHz**) can interfere with the radio receiver of the motor and so reduce the range of the system and limit the functionality of the installation.

03. Offset adapters installation on awnings and roller shutters.

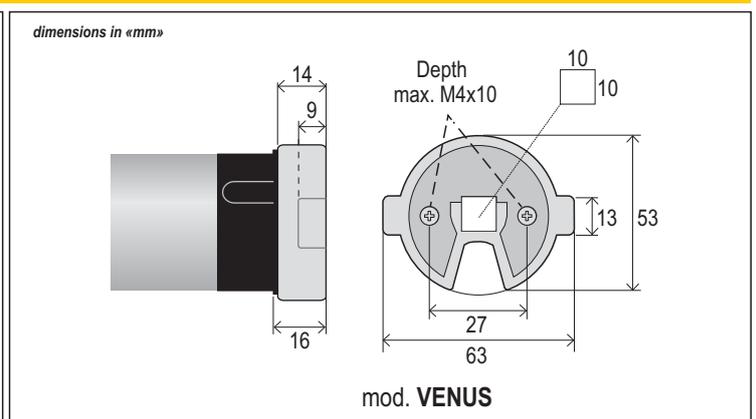
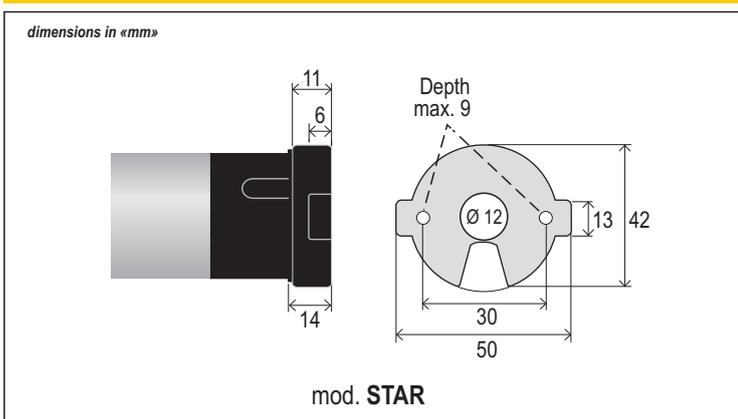


 **THE DOWNWARD MOVEMENT OBSTACLE DETECTION (ROLLER SHUTTER) OR SELF-LIMIT SWITCHES SETTING (AWNING) FUNCTIONS ARE GUARANTEED ONLY USING OFFSET ADAPTER SERIES, CORRECTLY INSTALLED AS SHOWN IN THE PICTURES.**

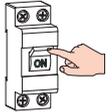
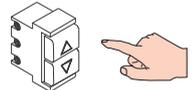
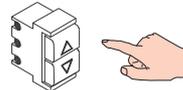
04. Electrical connection.



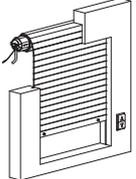
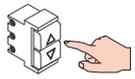
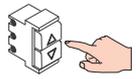
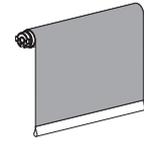
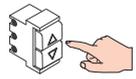
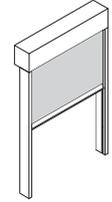
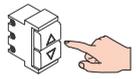
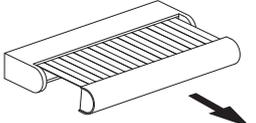
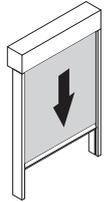
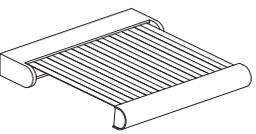
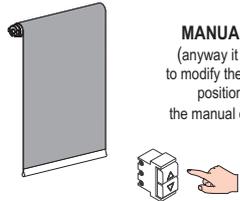
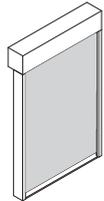
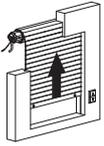
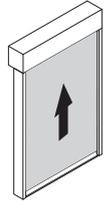
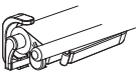
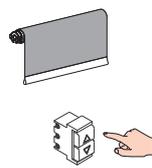
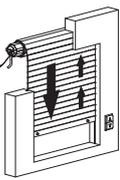
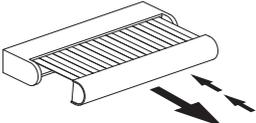
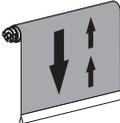
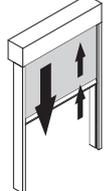
05. Technical dimensions.



06. Limit switches regulation mode using the command buttons.

 <p>SWITCH ON POWER SUPPLY</p>	 <p>BRING THE MOTOR TO THE INTERMEDIATE POSITION (around half way)</p>	 <p>IDENTIFY THE BUTTON THAT MOVES THE MOTOR DOWNWARD</p>
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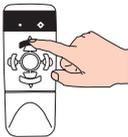
**THEN PRESS AND RELEASE IN QUICK SUCCESSION (without moving the motor, 1 sec. between one press and the next)
THE BUTTON THAT MOVES THE MOTOR DOWNWARD IF THE APPLICATION IS FOR :**

RULLER SHUTTER <i>Offset adapter necessary</i>	AWNING <i>Offset adapter advised</i>	SCREEN <i>Standard adapter</i>	GARDEN <i>Offset adapter necessary</i>
  <p>PRESS 3 TIMES DOWN</p>	  <p>PRESS 5 TIMES DOWN</p>	  <p>PRESS 7 TIMES DOWN</p>	  <p>PRESS 9 TIMES DOWN</p>
<p>WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD.</p> 	<p>WAIT AROUND 2 SECONDS, THE MOTOR MOVES DOWNWARD.</p> 	 <p>WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD.</p>	 <p>WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD.</p>
<p>WAIT THE AUTOMATIC STOP <small>(anyway it is possible to modify the limit switch position using the manual command).</small></p> 	<p>WAIT THE AUTOMATIC STOP <small>(anyway it is possible to modify the limit switch position using the manual command).</small></p> 	<p>MANUAL STOP <small>(anyway it is possible to modify the limit switch position using the manual command).</small></p> 	<p>WAIT THE AUTOMATIC STOP <small>(anyway it is possible to modify the limit switch position using the manual command).</small></p> 
<p>WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.</p> 	<p>WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.</p> 	 <p>WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.</p>	 <p>WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.</p>
<p>ROLLER SHUTTER WITH STOPPERS</p>  <p>AUTOMATIC STOP</p>	<p>CASSETTE AWNING</p>  <p>AUTOMATIC STOP</p>	<p>SQUARE BAR AWNING</p>  <p>MANUAL STOP</p>	<p>THE SCREEN NEEDS THE MANUAL STOP BECAUSE ITS UPPER POSITION IS NOT DELIMITED BY AN OBSTACLE.</p>  <p>AUTOMATIC STOP</p>
 <p>AFTER 2 SECONDS THE MOTOR OPERATES A LARGE DOWNWARD MOVEMENT AND TWO SMALL UPWARD MOVEMENTS.</p>	 <p>AFTER 2 SECONDS THE MOTOR OPERATES A LARGE DOWNWARD MOVEMENT AND TWO SMALL UPWARD MOVEMENTS.</p>	 <p>AFTER 2 SECONDS THE MOTOR OPERATES A LARGE DOWNWARD MOVEMENT AND TWO SMALL UPWARD MOVEMENTS.</p>	 <p>AFTER 2 SECONDS THE MOTOR OPERATES A LARGE DOWNWARD MOVEMENT AND TWO SMALL UPWARD MOVEMENTS.</p>
<p>WITHIN 8 SECONDS PRESS «STOP» ON THE TRANSMITTER TO BE STORED.</p>  <p>THE UPWARD MOVE OF THE MOTOR SIGNALS THE STORAGE.</p>	<p>WITHIN 8 SECONDS PRESS «STOP» ON THE TRANSMITTER TO BE STORED.</p>  <p>THE UPWARD MOVE OF THE MOTOR SIGNALS THE STORAGE.</p>	<p>WITHIN 8 SECONDS PRESS «STOP» ON THE TRANSMITTER TO BE STORED.</p>  <p>THE UPWARD MOVE OF THE MOTOR SIGNALS THE STORAGE.</p>	<p>WITHIN 8 SECONDS PRESS «STOP» ON THE TRANSMITTER TO BE STORED.</p>  <p>THE UPWARD MOVE OF THE MOTOR SIGNALS THE STORAGE.</p>

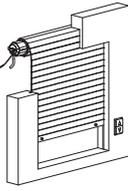
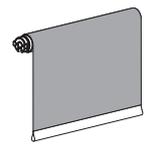
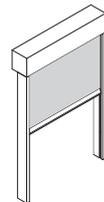
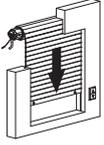
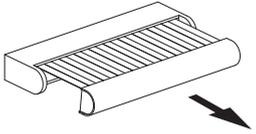
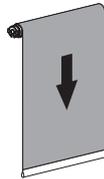
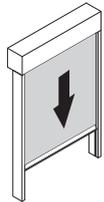
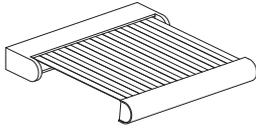
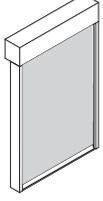
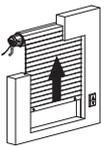
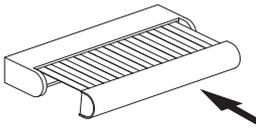
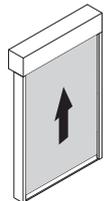
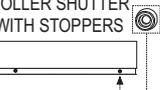
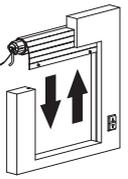
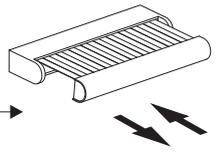
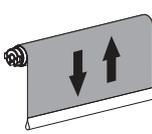
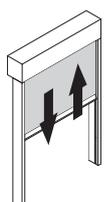


After the sequence of press, the motor sets up for the chosen application. It could happen that the down button commands an upward move and vice-versa. This behaviour forms an integral part of the procedure.

07. Limit switches regulation mode using the portable transmitter.

 SWITCH ON POWER SUPPLY	WITHIN 8 sec. 	PRESS «PROG» 	 IF PRESSING THE BUTTON UP ON THE TRANSMITTER THE MOTOR MOVES DOWNWARD PRESS AGAIN «PROG» ON THE TRANSMITTER. AUTOMATICALLY UP BUTTON ON THE TRANSMITTER CORRESPONDS TO THE UPWARD MOVE OF THE MOTOR.	PRESS AGAIN «PROG»   
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**THEN PRESS AND RELEASE IN QUICK SUCCESSION (without moving the motor, 1 sec. between one press and the next)
THE BUTTON «STOP» IF THE APPLICATION IS :**

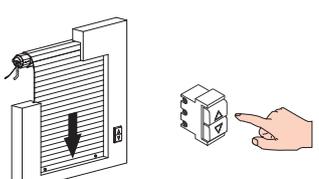
ROLLER SHUTTER <i>Offset adapter necessary</i>	AWNING <i>Offset adapter advised</i>	SCREEN <i>Standard adapter</i>	GARDEN <i>Offset adapter necessary</i>
  PRESS 3 TIMES «STOP»	  PRESS 5 TIMES «STOP»	  PRESS 7 TIMES «STOP»	  PRESS 9 TIMES «STOP»
WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD. 	WAIT AROUND 2 SECONDS, THE MOTOR MOVES DOWNWARD. 	 WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD.	 WAIT AROUND 2 SECONDS. THE MOTOR MOVES DOWNWARD.
WAIT THE AUTOMATIC STOP (anyway it is possible to modify the limit switch position using the transmitter). 	WAIT THE AUTOMATIC STOP (anyway it is possible to modify the limit switch position using the transmitter). 	MANUAL STOP (anyway it is possible to modify the limit switch position using the transmitter). 	WAIT THE AUTOMATIC STOP (anyway it is possible to modify the limit switch position using the transmitter). 
WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD. 	WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD. 	 WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.	 WAIT AROUND 8 SECONDS THE MOTOR MOVES UPWARD.
ROLLER SHUTTER WITH STOPPERS  AUTOMATIC STOP 	CASSETTE AWNING  AUTOMATIC STOP 	SQUARE BAR AWNING  MANUAL STOP 	MANUAL STOP. 
WAIT 2 sec.  	WAIT 2 sec.  	WAIT 2 sec.  	WAIT 2 sec.  



If the procedure is stopped for switching off of power, it must be completely repeated. If during the procedure some forbidden operation are performed, the motor signals the anomaly operating an upward movement and a downward movement for 3 times. In this case switch off power and repeat the procedure.

08. Memorization of the first transmitter when the limit switches have been set using a manual command.

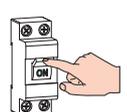
USING THE MANUAL COMMAND, BRING THE MOTOR TO THE **LOW LIMIT POSITION.**



SWITCH OFF POWER SUPPLY



WAIT 2 sec.

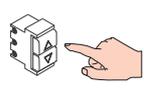


SWITCH ON POWER SUPPLY

WAIT 2 sec.



PRESS 10 TIMES IN QUICK SUCCESSION THE BUTTON **DOWN**

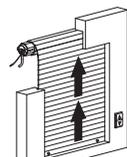


x 10 TIMES DOWN

PERFORM THE OPERATION WITHIN: 15 seconds



THE MOTOR OPERATES 2 SMALL UPWARD MOVEMENTS TO SIGNAL THE ENTRY INTO THE TRANSMITTER MENU



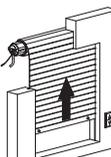
WITHIN 8 sec.



PRESS BUTTON «STOP» ON THE TRANSMITTER TO BE STORED IN MEMORY

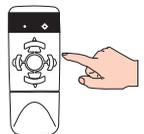


THE UPWARD MOVEMENT OF THE MOTOR SIGNALS THE STORAGE.

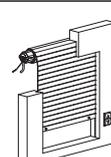


09. Memorization of an additional transmitter.

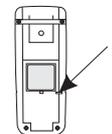
USING THE TRANSMITTER ALREADY IN MEMORY BRING THE MOTOR TO THE INTERMEDIATE POSITION.



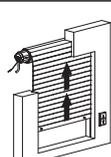
INTERMEDIATE POSITION (around half way).



PRESS AND HOLD «PROG» ON THE TRANSMITTER ALREADY IN MEMORY



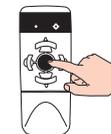
THE MOTOR OPERATES 2 UPWARD MOVEMENTS



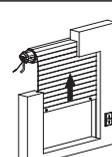
WITHIN 8 sec.



PRESS «STOP» ON THE NEW TRANSMITTER TO BE STORED IN MEMORY

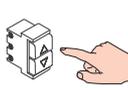


THE UPWARD MOVE OF THE MOTOR SIGNALS THE STORAGE.

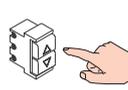


10. Setting the intermediate position using the command buttons.

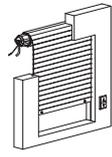
USING THE MANUAL COMMAND BRING THE MOTOR ON THE DESIRED INTERMEDIATE POSITION



TO SET THE INTERMEDIATE POSITION PRESS 5 TIMES IN QUICK SUCCESSION THE BUTTON UP



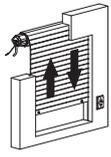
x 5 TIMES UP



WAIT 2 sec.

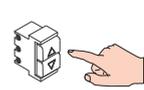


THE MOTOR STORES THE INTERMEDIATE POSITION AND COMMANDS 2 MOVEMENTS ON THE OPPOSITE DIRECTIONS.

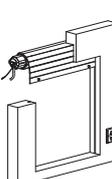


11. Recalling the intermediate position using the command buttons.

PRESS 2 TIMES IN QUICK SUCCESSION THE BUTTON DOWN



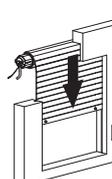
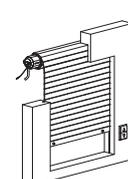
x 2 TIMES DOWN



WAIT 2 sec.

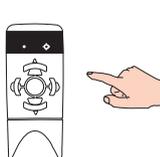


THE MOTOR STARTS TO MOVE AND STOP IN THE INTERMEDIATE POSITION PREVIOUSLY STORED.

12. Setting the intermediate position using the transmitter.

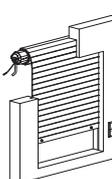
BRING THE MOTOR TO THE DESIRED INTERMEDIATE POSITION



TO SET THE INTERMEDIATE POSITION PRESS STOP AND (holding STOP) PRESS UP



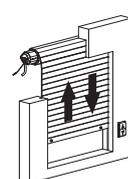
PRESS AND HOLD STOP + UP



WAIT 2 sec.



THE MOTOR STORES THE INTERMEDIATE POSITION AND COMMANDS 2 MOVEMENTS ON THE OPPOSITE DIRECTIONS.

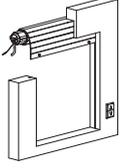


13. Recalling the intermediate position using the transmitter.

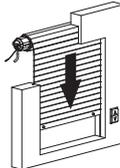
TO RECALL THE INTERMEDIATE POSITION PRESS STOP AND (holding STOP) PRESS DOWN



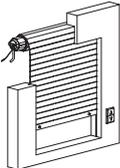
PRESS AND HOLD STOP + DOWN



WAIT 2 sec.

THE MOTOR STARTS TO MOVE AND STOP IN THE INTERMEDIATE POSITION PREVIOUSLY STORED.



14. Setting again the limit switches.

SWITCH OFF POWER SUPPLY



WAIT 2 sec.



SWITCH ON POWER SUPPLY

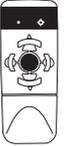


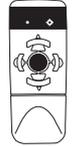
WITHIN 8 sec.



PRESS THE SEQUENCE

STOP PROG STOP

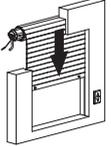




WAIT 2 sec.



THE MOTOR MOVES DOWNWARD. NOW FOLLOW THE PREVIOUS POINTS 06-07 «LIMIT SWITCHES MEMORIZATION»



15. Cancellation of all the transmitters in memory.

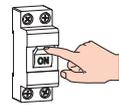
SWITCH OFF POWER SUPPLY



CONNECT TOGETHER BLACK + GREY + BROWN



SWITCH ON POWER SUPPLY



WAIT 30 sec.



THE MOTOR MOVES 2 TIMES ON THE OPPOSITE DIRECTIONS



SWITCH OFF POWER SUPPLY



RESTORE THE CONNECTIONS



SWITCH ON POWER SUPPLY



IF YOU WANT TO STORE AGAIN A TRANSMITTER FOLLOW THE PROCEDURE 08.

16. Restore the factory settings - RESET.

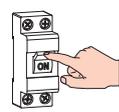
SWITCH OFF POWER SUPPLY



CONNECT TOGETHER BLACK + GREY + BROWN



SWITCH ON POWER SUPPLY



WAIT 30 sec.



TRANSMITTERS DELETION



WAIT 15 sec.



LIMIT SWITCHES DELETION



WAIT 2 sec.



SWITCH OFF POWER SUPPLY



RESTORE THE CONNECTIONS



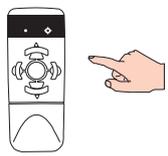
SWITCH ON POWER SUPPLY



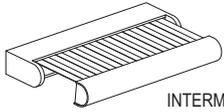
NOW FOLLOW THE PREVIOUS POINTS 06-07 «LIMIT SWITCHES MEMORIZATION»

17. Memorization or deletion of a wind or sun-wind sensor (MISTRAL RADIO, MISTRAL BATTERY - ECLIPSE RADIO, ECLIPSE BATTERY).

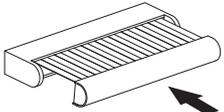
USING A TRANSMITTER ALREADY IN MEMORY BRING THE MOTOR TO THE INTERMEDIATE POSITION.



INTERMEDIATE POSITION (around half way).

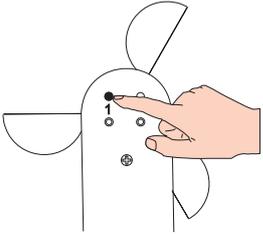


PRESS AND HOLD «PROG» ON THE TRANSMITTER UNTIL THE MOTOR OPERATES 2 UPWARD MOVEMENTS



TO STORE

PRESS BUTTON «1» ON THE SENSOR

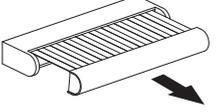


WITHIN 8 sec.



TO DELETE

PRESS BUTTON «1» ON THE SENSOR

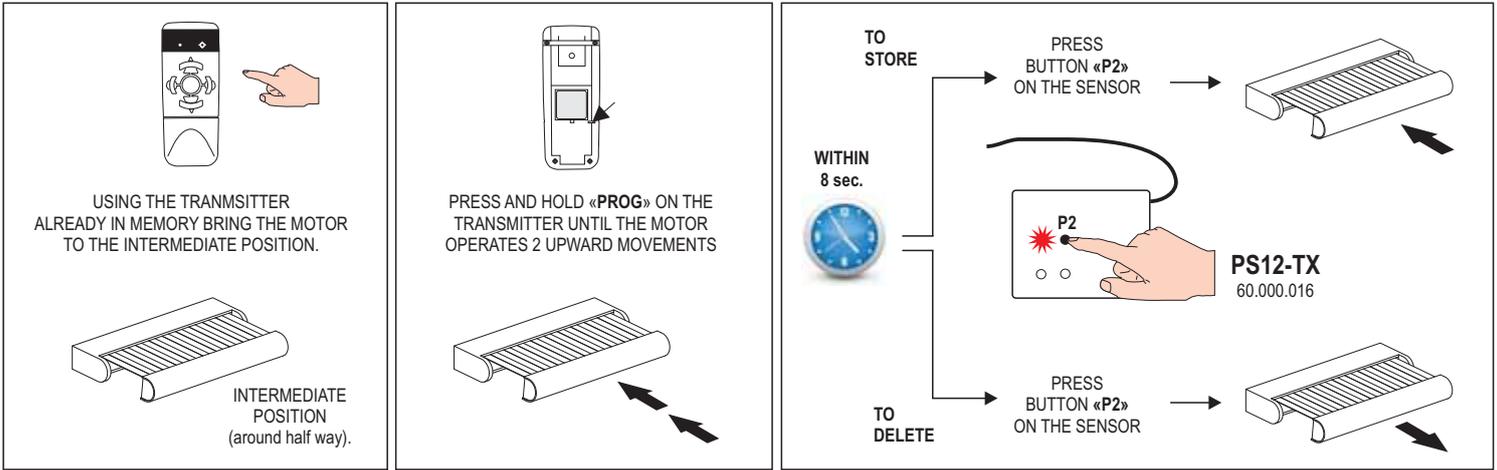


For MISTRAL BATTERY and ECLIPSE BATTERY hold button 1 for around 3 seconds, until the motor moves.




ACTIVATION/DEACTIVATION PROCEDURE FOR THE «SUN FUNCTION» (only if ECLIPSE RADIO or ECLIPSE BATTERY are stored) IS DIFFERENT ACCORDING TO THE USED TRANSMITTER. IT IS ADVISABLE TO SEE THE INSTRUCTION MANUAL OF THE TRANSMITTER.

18. Memorization/deletion of a rain sensor (PS12-TX).



19. Other functions.

19.1 ROD «Rise Obstacle Detection» function - not available for screen type application

During the upward movement, the motor activates the ROD function to detect the presence of obstacles that will prevent the normal movement of the motor. If an obstacle is detected, the upward movement is stopped and a small downward movement is operated to free the structure of the traction due to the presence of the obstacle. During this small automatic downward movement all the manual controls are inhibited.

19.2 STS «Soft Touch System» torque control - not available for screen type application

Near the upper limit switch, the STS torque control limits the motor torque and adapts it to the weight of the roller shutter/awning to guarantee a soft lean with the obstacle that delimits the upper limit switch.

19.3 Control on the safety catches SHD «Safety Hook Detection» - available for roller shutter application only

If the roller shutter has safety catches, the SHD function detects the presence of the safety catches, and if they are present it stops the upward movement and operates the closing of the roller shutter without damaging it.

19.4 FOD «Fail Obstacle Detection» function - not available for screen type application

The correct operation of the downward movement obstacle detection function depends on the use of the offset adapter and its correct installation, in accordance with what is illustrated in the previous pictures. During the downward movement, the motor activates the FOD function to detect the presence of obstacles that will prevent the normal movement of the motor. If an obstacle is detected, the downward movement is stopped and a large upward movement is operated to allow the obstacle to be removed. During this upward movement, all the control buttons are inhibited.

In the roller shutter or awning type installations the FOD function is normally active. In situation where the downward movement obstacle detection is not working correctly due to the presence of structural friction that affects the natural sliding of the roller shutter or awning, it is possible to deactivate the FOD function.

To **ACTIVATE/DEACTIVATE** the FOD function follow this procedure:

1. Bring the motor to the intermediate position (around half way)
2. Press and hold **PROG** of a transmitter already stored in memory for about 4 seconds, until the motor operates 2 upward movements.
3. Briefly press again **PROG**. The motor operates 3 upward movements to signal the entry into «FOD programming».
4. Press **STOP**. The motor displays the current setting. 1 upward movement = function is ACTIVE, while 1 downward movement = function is INACTIVE.
5. If you want to modify the setting, press **STOP**. The motor displays the new setting and then returns to its normal activity.
6. If the setting is already the one you want, wait without carrying out any operation. After about 8 seconds the motor operates 2 downward movements to signal that the setting has been modified.

19.5 Radio test function

This type of motors is able to manage information received from a radio sensor (MISTRAL RADIO, MISTRAL BATTERY, ECLIPSE RADIO, ECLIPSE BATTERY, PS12-TX). If a radio sensor of this type is stored in the memory of the motor, a communication test is automatically activated between sensor and motor. If the communication is absent (due to failure of one or both the devices or due to interference), the device commands an upward movement.

This movement is operated periodically (about every 20 minutes) until radio communication is restored.

To **ACTIVATE / DEACTIVATE** the RADIO TEST setting using a transmitter already stored in memory follow this procedure:

1. Bring the motor to the intermediate position (around half way)
2. Press and hold **PROG** button of the transmitter already stored in memory for about 4 seconds, until the motor operates 2 upward movements.
3. Briefly press again **PROG**. The motor operates 3 upward movements to signal the entry into «FOD programming».
4. Briefly press **PROG**. The motor operates 4 upward movements to signal «RADIO TEST programming».
5. Briefly press **STOP**. The motor displays the current setting. 1 upward movement = RADIO TEST ACTIVE, while 1 downward movement = RADIO TEST INACTIVE
6. If you want to modify the setting, press **STOP**. The motor displays the new setting and returns to its normal activity.
7. If the setting is already the one you want, wait without carrying out any operation. After about 8 seconds the motor operates 2 downward movements to signal that the current setting has not been modified.

19.5 Movement operated by TIMERS

This type of motor is able to receive commands from transmitters equipped with timers, such as for example, VECTOR 24. For further information regarding the control of the motor through timers, please contact your dealer or consult the transmitter instruction manual.

19.6 Wake-up function

This function is available only if a transmitter code VECTOR 24 is stored in the memory of the motor. If a timer with transmission code F1 is set on the transmitter, on receiving the code, the motor operates a short upward movement; after an interval of about 2 minutes, another short upward movement is operated and so on, so as to illuminate the room gradually.

Any manual (coming from control buttons or portable transmitter) or automatic (coming from timers or radio sensors) command stops the procedure.

For any further information on the setting procedure, please refer to the transmitter VECTOR 24 instruction manual.

19.7 Self-calibration of the limit switches

If the upper limit switch has been learnt by the motor by collision with an obstacle (case of roller shutter with stoppers) the motor avoids continually colliding with the stop by stopping a few seconds earlier. If the control electronics consider it advisable, it is possible that the roller shutter will occasionally lean with the upper stop and a limit switches calibration operation will be carried out. The impact will in any case be soft since it is managed by the STS torque control. During the calibration operation, some small movements might be carried out during which the manual controls are inhibited.

19.8 Compatible transmitters

These motors are compatible with all the transmitter series OTELLO, VECTOR, WALL and TX3 EGO and are able to store up to 40 different radio codes, one of which can be the one of a radio sensor.

All products and technical characteristics on this document are subjects to variations without any notice.

MASTER declares that the device meets the principal requirements and the other regulations of the directive 1999/5/CE.

The declaration of conformity of the above products is available on the web site <http://www.mastermotion.eu/it-IT/download>, section «Conformity products».

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