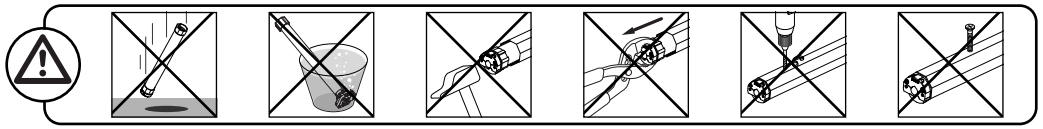
simu	GB **T5 Hz.02** Tubular operators with integrated radio for blinds & roller shutters.	**5010945D** Read carefully these instructions before any use.

S.A.S. au capital de 5 000 000 € - Z.I. Les Giranaux - BP71 - 70103 Arc-Les-Gray CEDEX - RCS GRAY B 425 650 090 - SIRET 425 650 090 00011 - n° T.V.A CEE FR 87 425 650 090

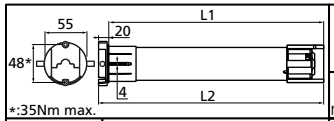


1 Installation

- Recommendations :

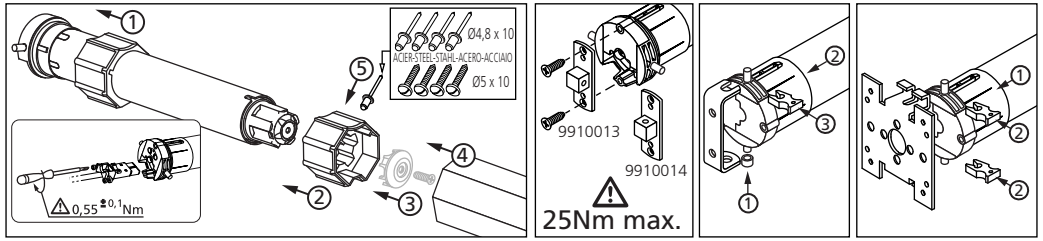
- Keep a minimum distance of 20 cm between two T5 Hz.02 motors. Keep a minimum distance of 30 cm between T5Hz.02 motors and Hz transmitters.
- A radio appliance using the same frequency (433,42MHz) may deteriorate our product's performance (ex. : hi-fi radio headphones).
- The cable may only be connected to the motor by qualified personnel.
- The connector is to be assembled without damaging the contacts.
- The continuity of the earth connection must be ensured.

- Drilling of the tube :



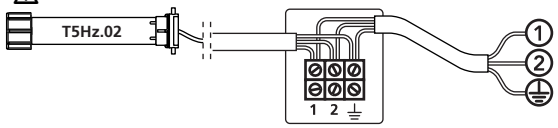
		T min.	A (mm)	ØB (mm)	L1 (mm)	L2 (mm)	Ø min.	A (mm)	ØB (mm)	C (mm)	D (mm)	L1 (mm)	L2 (mm)
T5Hz.02 230V-50Hz	508-17	47	590	5	603	623	47	590	5	26	4,2	603	623
	510-17 515-17 520-17 525-17 535-17 550-12	47	660	5	673	693	47	660	5	26	4,2	673	693
T5Hz.02 120V-60Hz	505-35	47	590	5	603	623	47	590	5	26	4,2	603	623
	510-35 515-18 525-18 530-12 535-18 550-12	47	660	5	673	693	47	660	5	26	4,2	673	693

- Assembly :



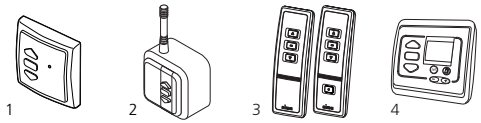
2 Wiring

- We recommend that the power supply of each motor offers the possibility of being switched off individually.



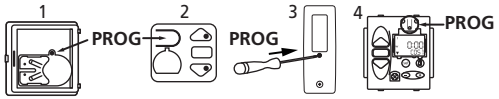
	① N	② L	⏚ PE
230V-50Hz	Blue	Brown	Green / yellow
120V-60Hz	White	Black	Green

3 Compatible transmitters



1 : Wall Hz ND transmitter
2 : Long-range Hz transmitter
3 : 1/5 channels Hz transmitter
4 : Hz timer

Transmitters range :
- 1, 3 and 4 : 20 m through 2 concrete walls .
- 2 : 40 m m through 2 concrete walls.
Location of the "PROG" key on Hz transmitters :

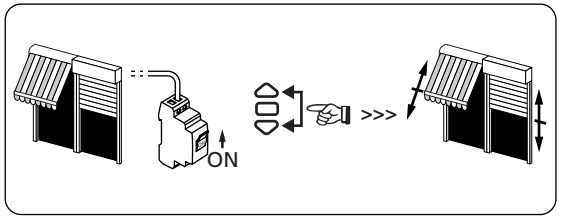


- Do not position the transmitter near metal in order to avoid range losses.

4 End limits adjustment

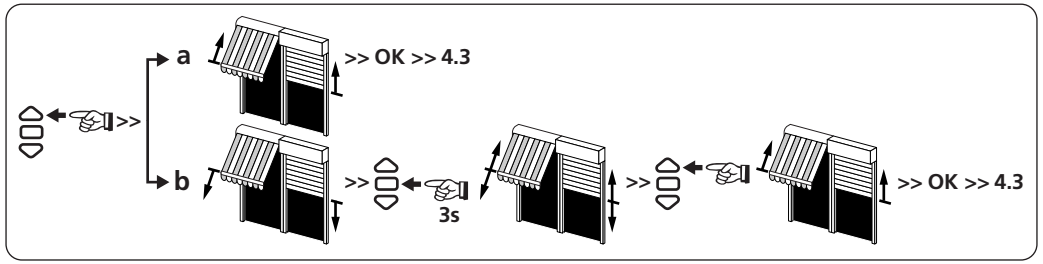
- If the installation includes several motors, only one motor is to be powered during this programming procedure. It will eliminate interferences with the other motor during the procedure.

4.1
- Switch ON the motor.
- Simultaneously press the UP and DOWN keys of a Hz transmitter. The motor will run for half a second in one direction, then the other.
The transmitter now controls the Hz.02 motor in unstable mode, move to stage 4.2.



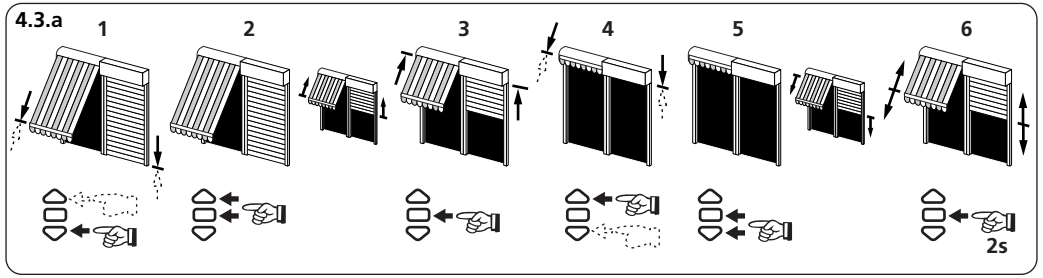
4.2 - Checking the rotation direction

Press the UP key of the transmitter:
a- If the motorized tube runs in the UP direction , move to next stage (4.3).
b- If the motorized tube runs in the DOWN direction, reverse the rotation direction by pressing the STOP key for at least 3 seconds. The motor will confirm the reversal of the rotation direction by running for half a second in one direction, then in the other direction. Move to the stage 4.3.



4.3 - Adjustement of the end-limits : memorizing the end points

The end-limit adjustement can be done in two ways:
- First you can memorize the DOWN position and then the UP position **(stage 4.3.a).**
- First you can memorize the UP position and then the DOWN position **(stage 4.3.b).**



1- Position the motor on the DOWN end limit by using the keys DOWN or UP.

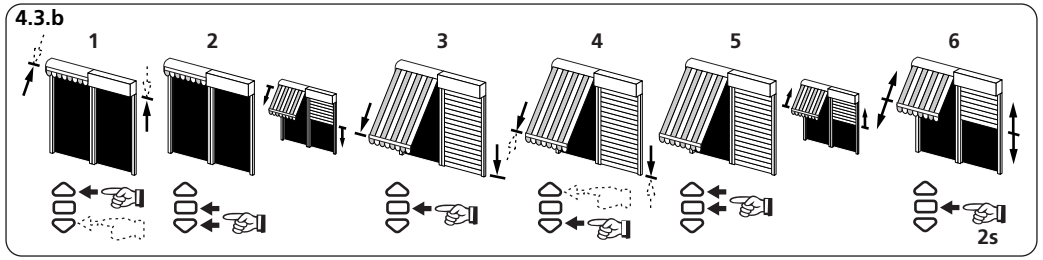
2- To memorize the DOWN end limit position, press simultaneoulsy the keys STOP and UP. The motor will run automatically in the UP direction.

3- When the motor arrives on the UP End limit, press the key STOP.

4- If necessary adjust the position with the keys UP or DOWN.

5- To memorize the UP end limit position, press simultaneoulsy the keys STOP and DOWN. The motor will run automatically in the DOWN direction.

6- Press 2 seconds the STOP key to validate the setting. The motor will stop, and will run for half a second in one direction, then in the other direction.



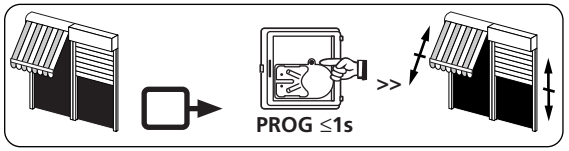
1- Position the motor on the UP end limit by using the keys UP or DOWN.
2- To memorize the UP end limit position, press simultaneoulsy the keys STOP and DOWN. The motor will run automatically in the DOWN direction.
3- When the motor arrives on the DOWN End limit, press the key STOP.
4- If necessary adjust the position with the keys UP or DOWN.
5- To memorize the DOWN end limit position, press simultaneoulsy the keys STOP and UP. The motor will run automatically in the UP direction.
6- Press 2 seconds the STOP key to validate the setting. The motor will stop, and will run for half a second in one direction, then in the other direction.

⚠ **- After these operations, if you do not wish to programm this transmitter as the first point of individual control of the motor,, switch off the power to the receiver. If you want to programm a new transmitter (e.g after the shutter is installed) with this receiver, go to the procedure 4.1. and then move on to operation 5.**

5 Programming the first individual point of control

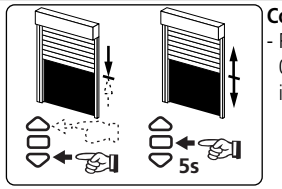
⚠ **- This operation can only be performed from the transmitter that was used for operation 4.1.**

- Press the transmitter "PROG" Key for approximately one second. The motor will run for a half a second in one direction and then in the other. **Your transmitter is now programmed to control the Hz.02 motor in stable mode.**

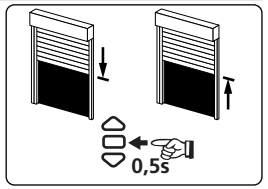


6 Recording and controling intermediate position

Recording :
- Position the motor on the wanted position.
- Press 5 seconds on the "stop" key. The motor will run for 1/2 second in one direction and then in the other.

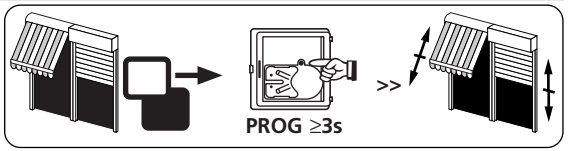


Controling :
- Press on the "stop" key for 0,5s. the motor goes to the intermediate position.

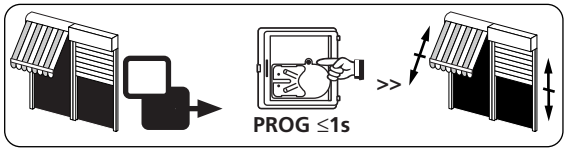


7 Programming a new (individual, group or main) control point:

7.1 : Open the memory of the receiver from the control transmitter:
- Press the "PROG" key of the transmitter for about three seconds. The motor will run for a half a second in one direction, then in the other.



7.2 : Validate the operation from the new transmitter you want to programm:
- Press the "PROG" key of the transmitter for about one second. The motor will run for a half a second in one direction, then in the other.

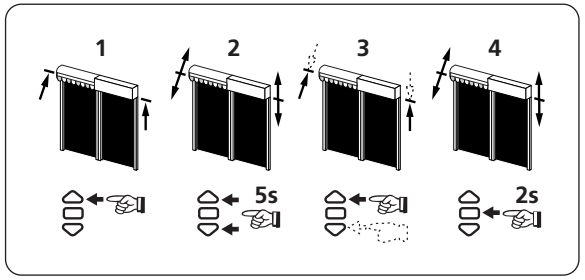


- For **group controls**, repeat operations **7.1** and **7.2** for each motor in the group.
- For **main controls**, repeat operations **7.1** and **7.2** for each motor in the installation.
- To delete an transmitter from the memory of a motor, perform operations **7.1** with a programmed transmitter, then perform the operation **7.2** with the transmitter to be deleted.

8 Re-adjustement of end limits

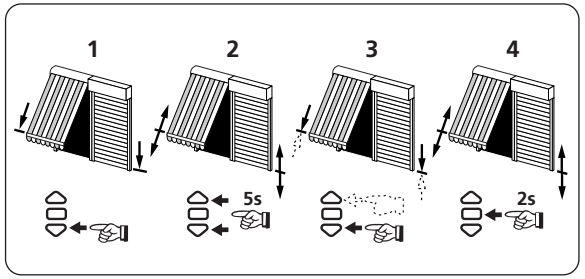
8.1 : Re-adjustement of UP end limits

1- Position the motor on the UP end limit previously set in §4.3 with the UP key.
2- Press simultaneously for 5 seconds the UP and DOWN keys, The motor will run for a half a second in one direction and then in the other direction.
3- Adjust the new position with the UP and DOWN keys.
4- Validate the new position by pressing 2 seconds the STOP key. The motor will run for a half a second in one direction and then in the other direction. The new end limits setting is memorized.



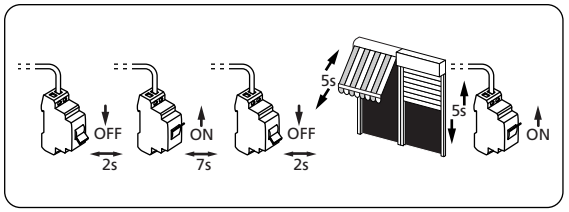
8.2 : Re-adjustement of DOWN end limits

1- Position the motor on the DOWN end limit previously set in §4.3 with the DOWN key.
2- Press simultaneously for 5 secondes the UP and DOWN keys, The motor will run for a half a second in one direction and then in the other direction.
3- Adjust the new position with the UP and DOWN keys.
4- Validate the new position by pressing 2 seconds the STOP key. The motor will run for a half a second in one direction and then in the other direction. The new end limits setting is memorized.



9 Cancelling programming and settings

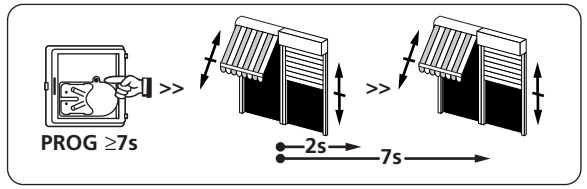
9.1
- **Switch off** the power supply to the motor for 2 seconds.
- **Switch on** the power supply to the motor for 7 seconds.
- **Switch off** the power supply to the motor for 2 seconds.
- **Switch the power to the motor back on**. The motor will run for 5 seconds in random direction **and is now in the "cancelling" mode.**



⚠ **If you switch off the power to several receivers, they will all be in cancelling mode. That is why, you must "eject" out of this mode all the receivers that are not to be deprogrammed by sending a command from their individual control transmitter (UP or Down).**

9.2 - Then, validate the cancelling of the affected motor from the individual control:

- Press the "PROG" key of the transmitter more than 7 seconds. Maintain the pressure until the motor will first run for a half a second in one direction and then the other, and a few second later, it will run again in both direction.



The Hz.02 motor is now as it was originally configured, and no transmitter and no settings is saved in its memory and is ready for a new programming.

CE Hereby, SIMU, declares that this equipment "T5Hz.02" is in compliance with the essential requirements and other relevant provision of Directive 1999/5/EC. A declaration of Conformity is available at the web address: **www.simu.fr**, heading **"Normes".** Usable in **EU,** CH