



EN **T3.5Hz02/T5Hz02/T6Hz02**  
(230V~50Hz)



**5010945L**

EN- ORIGINAL INSTRUCTIONS

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



These instructions apply to all T3.5Hz02/T5Hz02/T6Hz02 drive, the different versions of which are available in the current catalogue.

**Field of application:** T3.5Hz02/T5Hz02/T6Hz02 drive are designed to all types of roller shutters, outdoor awnings without cassette. The installer, who must be a motorisation and home automation professional, must ensure that the drive product is installed in accordance with the standards in force in the country in which it is installed such as EN 13659 relating to roller shutters, EN 13561 relating to outdoor screens and awnings.

**Liability:** Before installing and using the drive, please read operating and installation guide carefully. **Please read these instructions carefully** before installing and using the drive. In addition to following the instructions given in this guide, the instructions detailed in the attached **Safety instructions document** must also be observed. The drive must be installed by a motorisation and home automation professional, according to instructions from SIMU and the regulations applicable in the country in which it is commissioned. It is prohibited to use the drive outside the field of application described above. Such use, and any failure to comply with the instructions given in this guide and in the attached **Safety instructions document**, absolves SIMU of any liability and invalidates the warranty. The installer must inform its customers of the operating and maintenance conditions for the drive and must provide them with the instructions for use and maintenance, and the attached **Safety instructions document**, after installing the drive. Any After-Sales Service operation on the drive must be performed by a motorisation and home automation professional. If in doubt when installing the drive, or to obtain additional information, contact a SIMU adviser or go to the website [www.simu.com](http://www.simu.com).

## 1 Installation

**Instructions which must be followed by the drive and home automation professional installing the drive:**

- Methods of wiring are given by national standards or IEC60364 standard.
- Cables which pass through a metal wall must be protected and isolated using a sheath or sleeve.
- T5Hz02: The cable for the T5Hz02 can be removed. If it is damaged, replace by the same. 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.
- T3.5Hz02 - T6Hz02: The cable for the T3.5Hz02 - T6Hz02 cannot be removed. If it is damaged, return the drive to the After-Sales department.

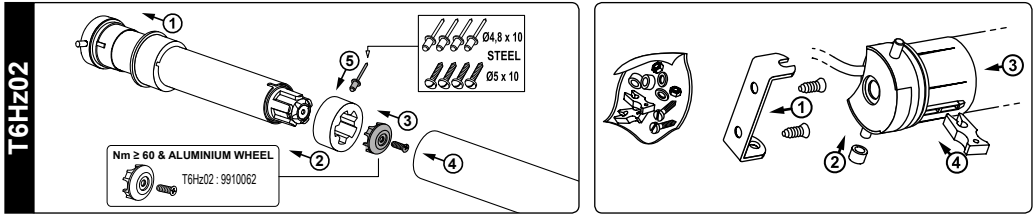
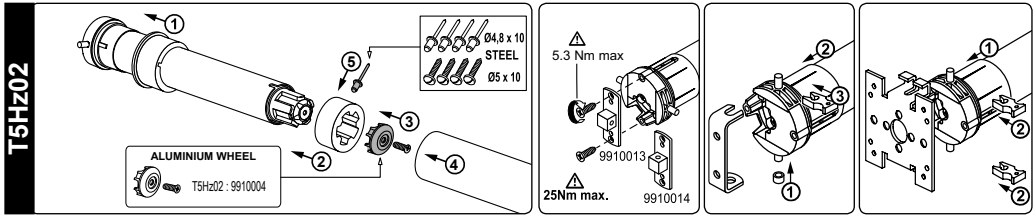
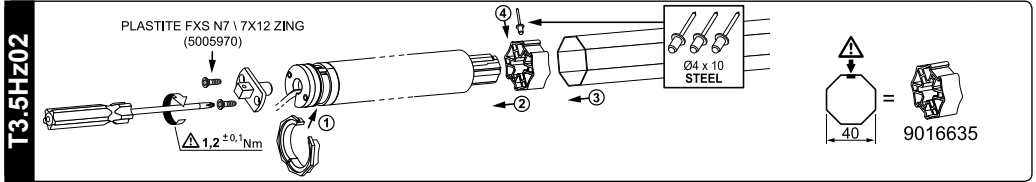
### **Recommendations:**

- Keep a minimum distance of **20 cm** between two Hz.02 motors.
- Keep a minimum distance of **30 cm** between Hz.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).

### **- Drilling of the tube:**

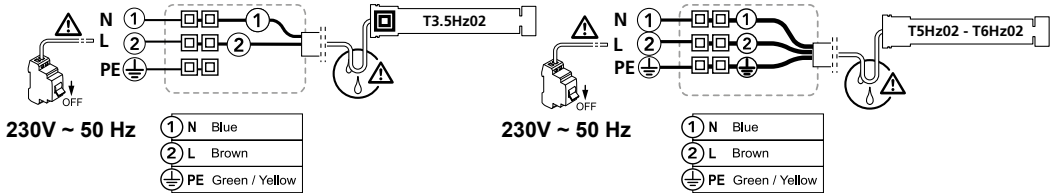
				mm							
				$\emptyset$ min.	A	$\emptyset$ B	C	D	L1	L2	
<b>T3.5Hz02</b>			230V~50Hz	4/16	37	437	4.2	8	5.5	460	475
			3/30 • 9/16 • 13/10	37	472	495				510	
<b>T5Hz02</b>			230V~50Hz	06/32 • 08/17 • 10/17 • 15/17	47	583	5	26	4.2	596	619
				15/32		653				666	689
				20/17 • 25/17 • 35/17 • 50/12		657				670	693
<b>T6Hz02</b>			230V~50Hz	60/12 • 80/12 • 100/12 • 120/12	60	716	5	36	8	729	758

## - Assembly:



## 2 Wiring

**⚠ You must have the possibility to switch off individually each motor.**

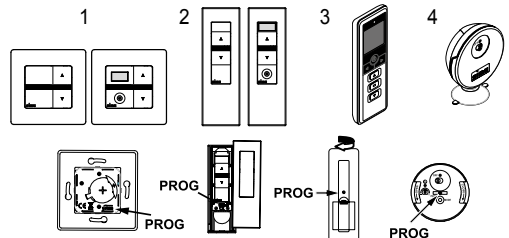


**⚠** - Attach cables to prevent any contact with moving parts.  
- If the motor is used outdoors and if the power supply cable is of the H05-VVF type, then run the cable in a UV-resistant conduit, e.g. trunking.

## 3 Compatible transmitters

(12 transmitters max. for one motor)

- 1/5 channels Wall Hz transmitter/ Memory Hz
- 1/5 channels Mobile Hz transmitter
- Color Multi 16 / Timer Easy / Timer Multi transmitters
- Hz Sun sensor



### Location of the PROG key on Hz transmitters:

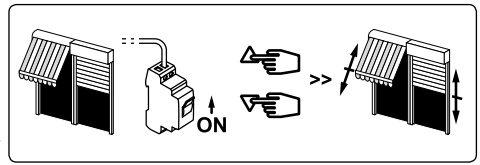
Do not position the transmitter near metal in order to avoid range losses.

## 4 End limit 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- Learning mode:

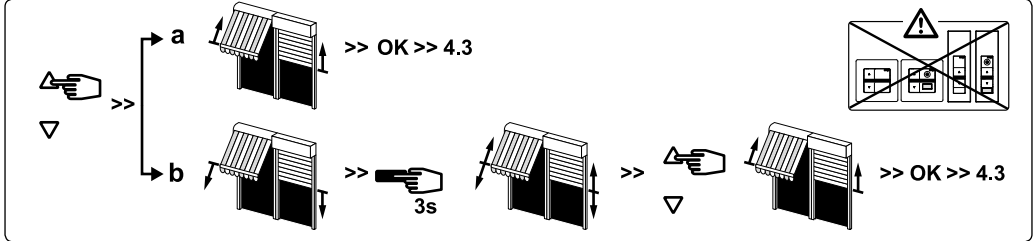
- Switch the motor ON.
- Simultaneously press the "UP" and "DOWN" keys of a Hz transmitter. The motor will run for 0,5 second in one direction, then in the other. *The transmitter now controls the motor in unstable mode, move to stage 4.2.*



#### 4.2- Checking the rotation direction:

Press the "UP" key of the transmitter:

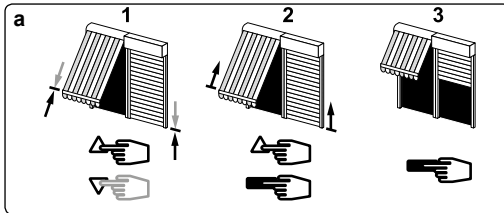
- a- If the motorized tube runs in the UP direction, move to next stage (4.3).
- b- If the motorized tube runs in the DOWN direction, reverse the rotation direction by pressing the "Stop" key for at least **3 seconds**. The motor will confirm the reversal of the rotation direction by running for 0,5 second in one direction, then in the other direction. Move to the stage 4.3.



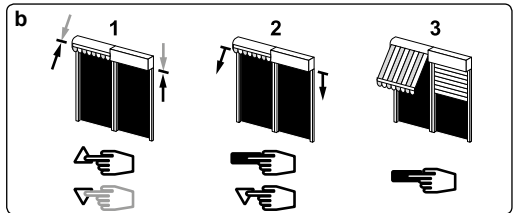
#### 4.3- Adjustement of the end-limits: memorizing the end points:

The end-limit adjustement can be done in two ways:

- First you can memorize the DOWN position (a) and then the UP position (b).
- First you can memorize the UP position (b) and then the DOWN position (a).



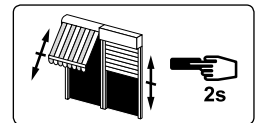
- 1- Position the motor on the DOWN end limit using the "DOWN" and "UP" keys.
- 2- To memorize the DOWN end limit position, press **simultaneously** the "STOP" and "UP" keys. The motor will run automatically in the UP direction.
- 3- Before the motor reaches the UP end limit, press the "STOP" key.



- 1- Position the motor on the UP end limit using the "UP" and "DOWN" keys.
- 2- To memorize the UP end limit position, press **simultaneously** the "STOP" and "DOWN" keys. The motor will run automatically in the DOWN direction.
- 3- Before the motor reaches the DOWN end limit, press the "STOP" key.

#### 4- After the adjustment of the DOWN (a) and the UP (b) end limits, confirm the settings:

- Press **2s** on the "STOP" key to validate the settings. The motor will stop and will run for 0,5 second in one direction and then in the other. Go to next step.



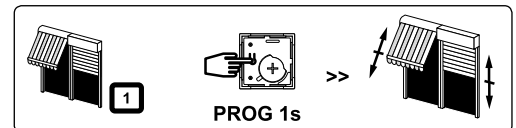
#### If you do not want to use this transmitter as the individual control:

- cut the power supply (2 seconds minimum).
- repeat the operation 4.1\* with a new transmitter and then go to step §5.
- \* In this case, the motor will run for 0,5 second in both directions, that means the limits setting is already done.

### 5 Programming the first individual point of control

#### This operation can only be performed from the transmitter that was used for operation 4.1.

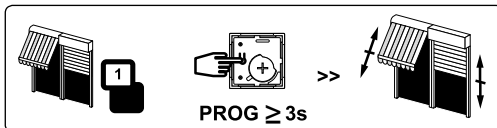
- Press the transmitter PROG Key for approximately 1 second. The motor will run for 0,5 second in one direction and then in the other. *Your transmitter is now programmed to control the motor in stable mode.*



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

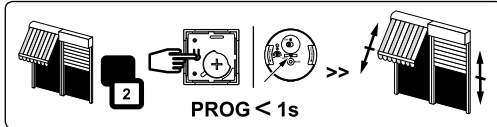
### 6.1- Open the memory of the receiver from the control transmitter:

- Press the **PROG** key of the transmitter for about **3 seconds**. The motor will run for 0,5 second in one direction, then in the other.



### 6.2- Validate the operation from the new transmitter you want to program:

- Press the **PROG** key of the transmitter for about **1 second**. The motor will run for 0,5 second in one direction, then in the other.



- For group controls, repeat operations 6.1 and 6.2 for each motor in the group.

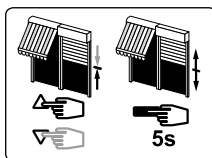
- For main controls, repeat operations 6.1 and 6.2 for each motor in the installation.

- To delete an transmitter from the memory of a motor, perform operations 6.1 with a programmed transmitter, then perform the operation 6.2 with the transmitter to be deleted.

## 7 Recording / controlling / deleting intermediate position

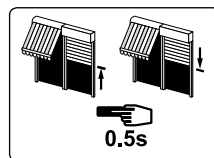
### Recording:

- Position the motor on the wanted position.
- Press **5 seconds** on the **"STOP"** key. The motor will run for 0,5 second in one direction and then in the other.



### Controlling:

- Press on the **"STOP"** key for **0.5 s**. the motor goes to the intermediate position.

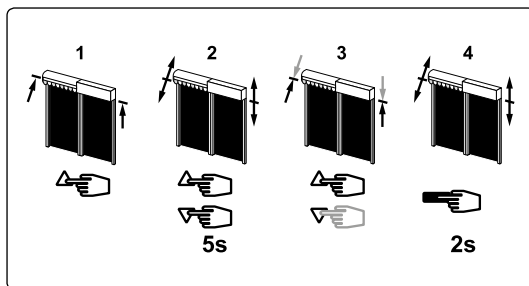


**Deleting:** Position the motor on the intermediate position. Press 5 seconds on the "STOP" key, the intermediate position is deleted.

## 8 Re-adjustment of end limits

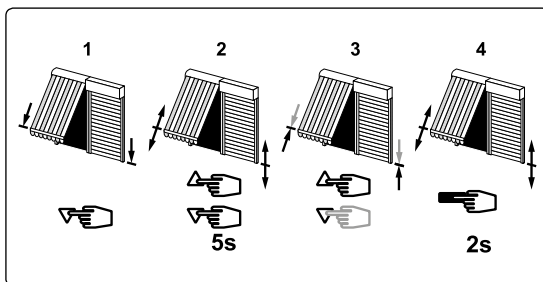
### 8.1- Re-adjustment of UP end limits:

- 1- Position the motor on the **UP end limit** previously set in §4.3b with the "UP" key.
- 2- Press simultaneously for **5 seconds** the **"UP"** and **"DOWN"** keys, The motor will run for 0,5 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 0,5 second in one direction and then in the other direction.  
*The new end limits setting is memorized.*



### 8.2- Re-adjustment of DOWN end limits:

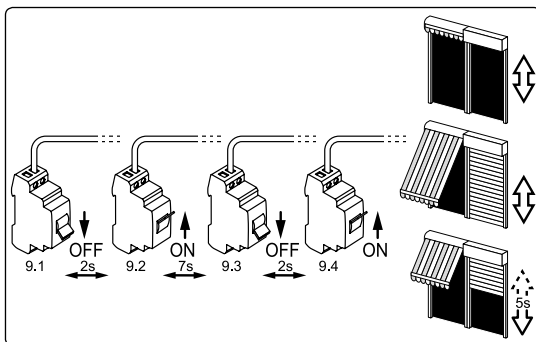
- 1- Position the motor on the **DOWN end limit** previously set in §4.3a with the "DOWN" key.
- 2- Press simultaneously for **5 seconds** the **"UP"** and **"DOWN"** keys, The motor will run for 0,5 second in one direction and then in the other direction.
- 3- **Adjust the new position** with the "UP" and "DOWN" keys.
- 4- Validate the new position by pressing **2 seconds** the **"STOP"** key. The motor will run for 0,5 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**.
- 9.2- Switch the power to the motor back on for **7 seconds**.
- 9.3- Switch off the power supply to the motor for **2 seconds**.
- 9.4- Switch the power to the motor back on.

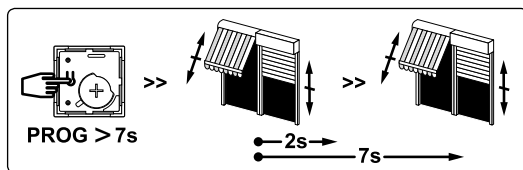
- If the motor is on the end limit position (up or down), the motor will run briefly on one direction and then in the other, otherwise, the motor runs for 5 seconds in random direction. The motor is now in the "cancelling" mode.



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

9.5- 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 0,5 second in one direction and then the other, and a few second later, it will run again in both direction.



The Hz02 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.

## 10 Operation and maintenance

- This drive is maintenance-free.
- Press the **▲** button on the control point to raise the motorised product.
- Press the **▼** button on the control point to lower the motorised product.
- If the motorised product is moving, briefly press the "STOP" button, the motorised product stop automatically.
- The motorised product is then stopped, briefly press the "STOP" button, the motorised product moves to the programmed intermediate position. (To modify or delete an intermediate position, see the section §7).

**Tips and recommendations for use:**

Problems	Possible causes	Solutions
The motorised product does not operate.	The overheating protection on the drive has been activated.	Wait for the drive to cool down.

If the motorised product still does not work, contact a drive and home automation professional.

**CE** SIMU SAS, F-70103 GRAY as manufacturer hereby declares that the drive covered by these instructions when marked for input voltage 230V~50Hz and used as intended according to these instructions, is in compliance with the essential requirements of the applicable European Directives and in particular of the Machinery Directive 2006/42/EC, and the Radio Directive 2014/53/EU. The full text of the EU declaration of conformity is available at [www.simu.com](http://www.simu.com). Emmanuel CARMIER, general director, GRAY, 12/2016.