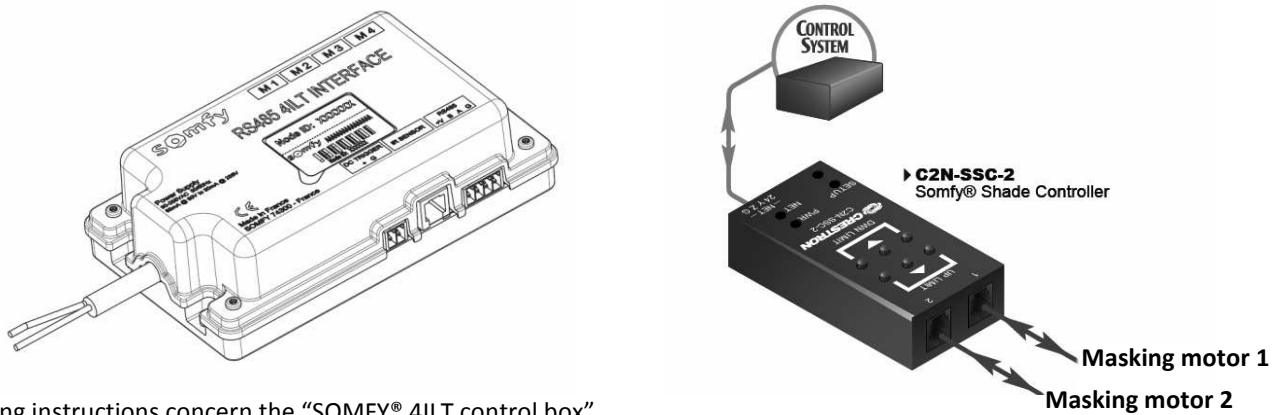


- Circulation:** Installers
- Concerns Models:** X-Mask equipped with Somfy ILT2 motors
- Subject:** Control systems installation
- Action:** Read the following instructions before to start installation
- Priority:** Mandatory

Your screen is equipped with Somfy ILT2 motors which allows more presets than standard Somfy Motors (LT50 or LS40) This screen needs to be controlled could be controlled using two controllers:
 SOMFY® interface called “SOMFY® 4ILT interface” to control the screen
 CRESTRON® interface developed for ILT2 motors called “C2N-SSC-2”



Following instructions concern the “SOMFY® 4ILT control box”.
 For the CRESTRON® interface please refer to the specific documentation.

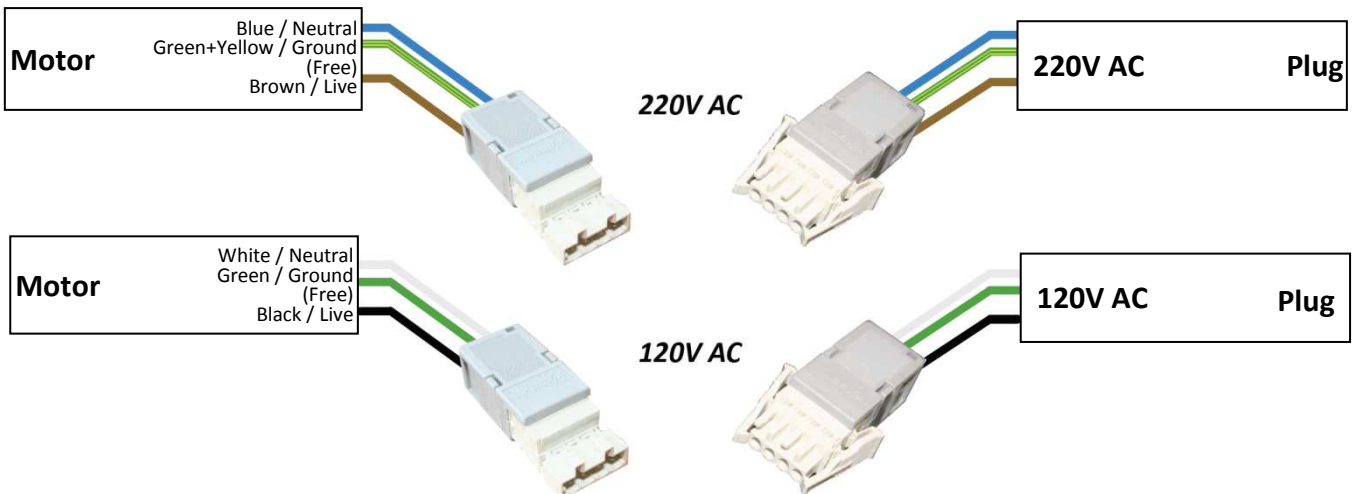
This installation note is split in three sections:

1. How to plug the motors on the 4ILT interface (Physical installation)
2. How to set end travels
3. How to program the presets
4. Instructions for use of IR transmitter
5. RS232 commands for ILT2 motors

1. Physical installation of the 4ILT interface:

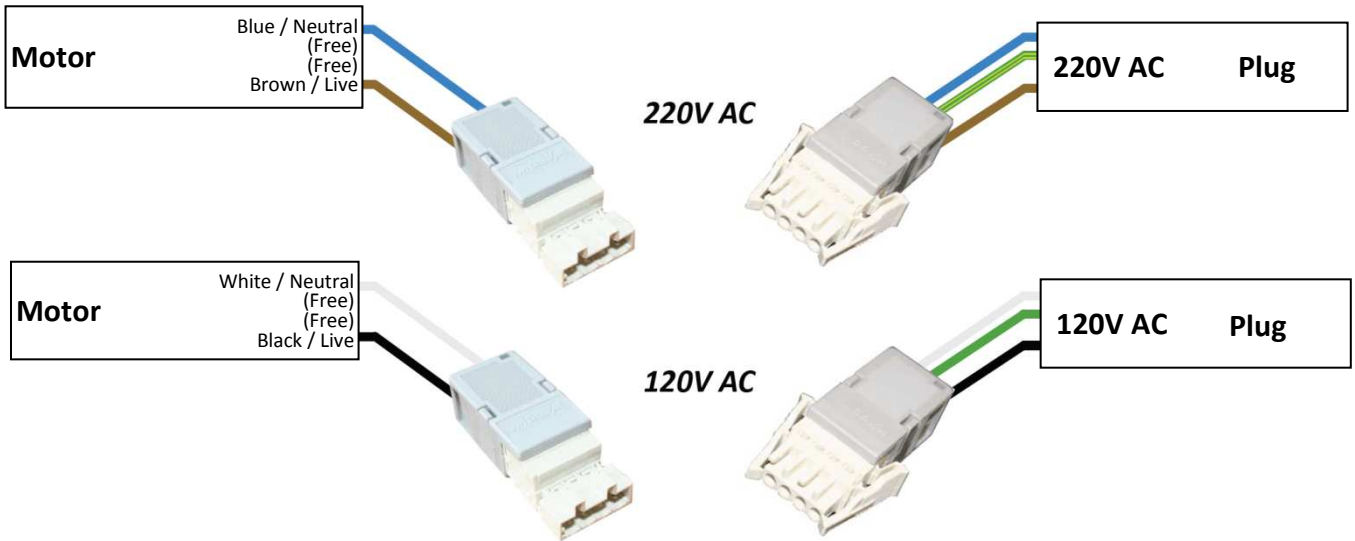
1. Plug the power wires of each motor.

Note: If an extension cable is added check that the wiring from the plug to the motor observes the following wiring diagram:

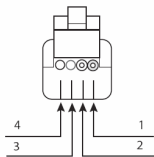
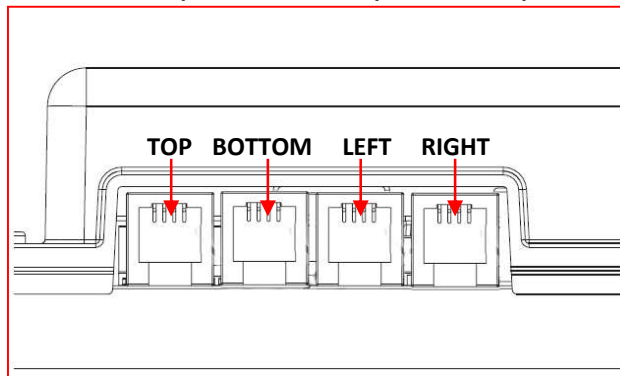


2. Plug in the “4ILT interface” power wire.

⚠ Wait for the initialization time (20sec) of the interface to avoid any trouble. ⚠

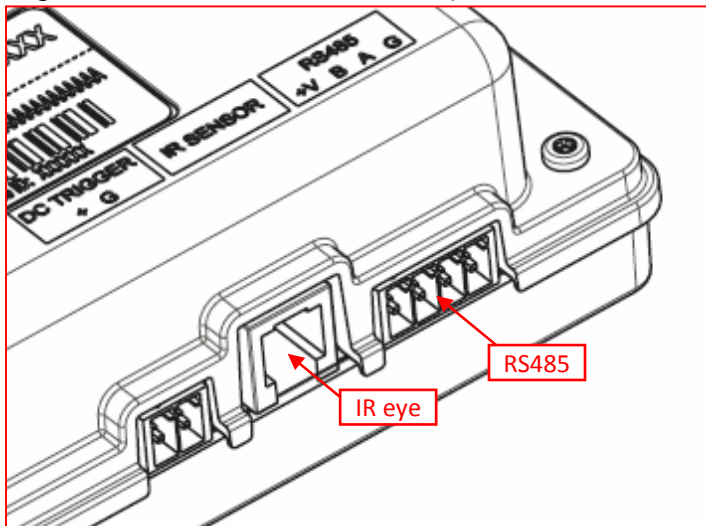


3. Plug the four RJ9 control wires of each motor into the 4ILT control box, respecting the following order:
M1 – TOP / M2 - BOTTOM / M3 – LEFT / M4 – RIGHT



	1	2	3	4
Dry contact	DOWN		Ground	UP
IR contact		+5V	Ground	IR
Digital Network	DATA		Ground	

4. Plug the communication channel chosen (IR receiver or RS485 channel) to the “4ILT” control box.



Tips:
It is possible to add a converter RS232 to RS485 to communicate with the 4ILT interface.

The wiring is the following:
RS485 – go to channel A on the 4ILT interface
RS485 + go to channel B on the 4ILT interface

Transmission distance:
1000 meters / 3281 feet

2. How to set end travels



End travels could be set using IR transmitter and ILT setting tool **ONLY**. There are no hexadecimal commands to set end travels. Please, refer to the ILT setting tool documentation.

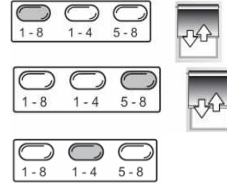
• **Using IR remote controller**

1- MOTOR SELECTION:

Use the 1→8 or 5→8 button to select one of the motors. The selected motor will acknowledge by doing a small jog.

- 1) The 1→8 button to select the previous motor.
- 2) The 5→8 button to select the next motor.
- 3) The 1→4 button to select all the motors connected to the interface.

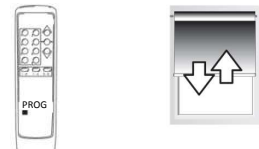
Once a motor is selected, you can control it individually.
After 2 min without any operation, all motors will react again to any operation.



2- MOTOR SETTING

A) ENTER TO SETTING MODE

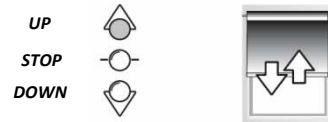
To enter in setting mode, press the “Prog” button of the remote control until the screen jogs.



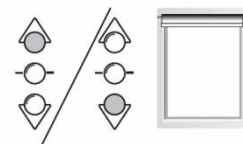
B) ADJUSTING THE END LIMITS

UP end limit:

Press the **UP** button until the motor jogs.



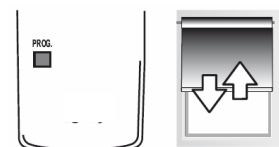
With the **UP** or **DOWN** buttons, move the screen to the desired up limit.



If the direction of rotation is not correct, press the **STOP** button until the screen jogs.



Press the **Prog** button to confirm the limit until the motor jogs.

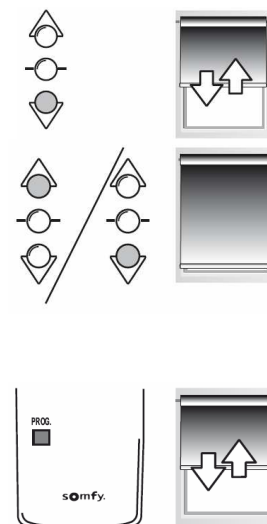


DOWN end limit:

Press the **DOWN** button until the motor jogs.

With the **UP** or **DOWN** buttons, move the screen to the desired down limit

Press the **Prog** button to confirm the limit until the motor jogs.



3. How to program the presets

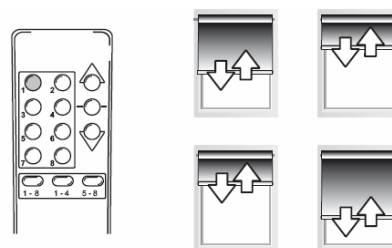
• Using IR remote controller

Buttons 1 to 8 will be used to set 1 to 8 formats.

By default, buttons 1 to 7 are not set, button 8 stands for the user Home Position (all the screens retracted).

To set a format, put one by one each screen to the desired position, then press the selected button (ex: button1) until all the screens jog.

TIPS: During the adjustment of the screen, if you press and hold the UP or DOWN button, the screen moves step by step. You can use this function for a better adjustment of the screen.



• Using RS485 commands

Use these hexadecimal commands:

Protocol commands	
Baud rate	4800
Parity	Odd
Data Bits	8
Stop Bits	1

Action	Hexadécimal Commands
Select format 1	7FF3FBFFFFFF000000FE0668
Select format 2	7FF3FBFFFFFF000000FD0667
Select format 3	7FF3FBFFFFFF000000FC0666
Select format 4	7FF3FBFFFFFF000000FB0665
Select format 5	7FF3FBFFFFFF000000FA0664
Select format 6	7FF3FBFFFFFF000000F90663
Select format 7	7FF3FBFFFFFF000000F80662
Select format 8	7FF3FBFFFFFF000000F70661
Save format 1	6FF3FBFFFFFF000000FE0658
Save format 2	6FF3FBFFFFFF000000FD0657
Save format 3	6FF3FBFFFFFF000000FC0656
Save format 4	6FF3FBFFFFFF000000FB0655
Save format 5	6FF3FBFFFFFF000000FA0654
Save format 6	6FF3FBFFFFFF000000F90653
Save format 7	6FF3FBFFFFFF000000F80652
Save format 8	6FF3FBFFFFFF000000F70651
Reset format 1	6EF3FBFFFFFF000000FE0657
Reset format 2	6EF3FBFFFFFF000000FD0656
Reset format 3	6EF3FBFFFFFF000000FC0655
Reset format 4	6EF3FBFFFFFF000000FB0654
Reset format 5	6EF3FBFFFFFF000000FA0653
Reset format 6	6EF3FBFFFFFF000000F90652
Reset format 7	6EF3FBFFFFFF000000F80651
Reset format 8	6EF3FBFFFFFF000000F70650

4. Instructions for use

• Using IR remote controller

By default, all motors connected to the interface will react together to any operation.

A) UP, DOWN and STOP

- 1) To move the screen, press briefly the UP or DOWN button.
- 2) To stop the screen, press the STOP button.

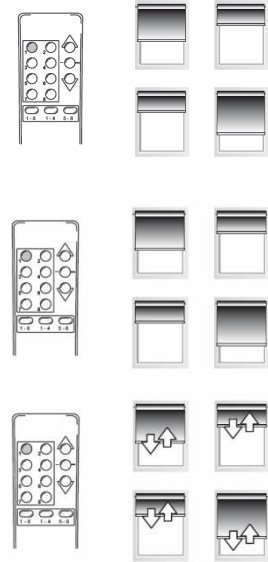
B) CALL A FORMAT.

To call a format, press on the desired format button.

C) DELETE A FORMAT.

Press the format button corresponding to the format to delete.
The screens go to the memorized position.
Press the corresponding format button until all the screens jog. The format is deleted.

IMPORTANT: make sure to never press the individual format buttons for more than 1 sec (this would make the actual positions stored as a format corresponding to the pressed button).



• **RS485 commands**

Protocol commands	
Baud rate	4800
Parity	Odd
Data Bits	8
Stop Bits	1

Action	Hexadécimal commands
Select format 1	7FF3FBFFFFFF00000FE0668
Select format 2	7FF3FBFFFFFF00000FD0667
Select format 3	7FF3FBFFFFFF00000FC0666
Select format 4	7FF3FBFFFFFF00000FB0665
Select format 5	7FF3FBFFFFFF00000FA0664
Select format 6	7FF3FBFFFFFF00000F90663
Select format 7	7FF3FBFFFFFF00000F80662
Select format 8	7FF3FBFFFFFF00000F70661
Save format 1	6FF3FBFFFFFF00000FE0658
Save format 2	6FF3FBFFFFFF00000FD0657
Save format 3	6FF3FBFFFFFF00000FC0656
Save format 4	6FF3FBFFFFFF00000FB0655
Save format 5	6FF3FBFFFFFF00000FA0654
Save format 6	6FF3FBFFFFFF00000F90653
Save format 7	6FF3FBFFFFFF00000F80652
Save format 8	6FF3FBFFFFFF00000F70651
Reset format 1	6EF3FBFFFFFF00000FE0657
Reset format 2	6EF3FBFFFFFF00000FD0656
Reset format 3	6EF3FBFFFFFF00000FC0655
Reset format 4	6EF3FBFFFFFF00000FB0654
Reset format 5	6EF3FBFFFFFF00000FA0653
Reset format 6	6EF3FBFFFFFF00000F90652
Reset format 7	6EF3FBFFFFFF00000F80651
Reset format 8	6EF3FBFFFFFF00000F70650
Move up all motors	67F2FBFFFFFF00000FFE074E
Move up motor 1	67F2FBFFFFFF00000FEFE074D
Move up motor 2	67F2FBFFFFFF00000FD074C
Move up motor 3	67F2FBFFFFFF00000FC074B
Move up motor 4	67F2FBFFFFFF00000FB074A
Move down all motors	67F2FBFFFFFF00000FFD074D
Move down motor 1	67F2FBFFFFFF00000FEFD074C
Move down motor 2	67F2FBFFFFFF00000FDFD074B
Move down motor 3	67F2FBFFFFFF00000FCFD074A
Move down motor 4	67F2FBFFFFFF00000FBFD0749
Move stop all motors	67F2FBFFFFFF00000FFC074C
Move stop motor 1	67F2FBFFFFFF00000FEFC074B
Move stop motor 2	67F2FBFFFFFF00000FDFC074A
Move stop motor 3	67F2FBFFFFFF00000FCFC0749
Move stop motor 4	67F2FBFFFFFF00000FBFC0748
Get Screen Status all	77F3FBFFFFFF00000FF0661
Get status motor 1	77F3FBFFFFFF00000FE0660
Get status motor 2	77F3FBFFFFFF00000FD065F
Get status motor 3	77F3FBFFFFFF00000FC065E
Get status motor 4	77F3FBFFFFFF00000FB065D

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