

ZIGBEE STANDALONE SOLUTION USING YSIA REMOTES



PROGRAMMING GUIDE

ZIGBEE STANDALONE SOLUTION USING YSIA REMOTES

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I. OVERVIEW

DESCRIPTION

The Somfy Zigbee Standalone Solution using the Ysia remotes defines the new process to follow for initial set up and adjustments without using the TaHoma switch and TaHoma pro app. This offers direct two-way communication between remotes and motors for programming and control utilizing the Zigbee technology protocol.

This solution provides the ability for pairing and settings needed for all users from the manufacturers, installers, and the end user. Programming options include pairing remotes, adjusting rotation direction, and setting end limits.

NOTE: Advanced motor settings require the use of the TaHoma pro application.
TaHoma Pro account access is required ahead of time to use the TaHoma Pro app.

TaHoma pro is the recommended tool to set a motor and to pair a remote.
TaHoma pro allows basic settings of rotation direction and end limits, as well as the advanced settings of a motor including speed adjustment, tilt & lift products, and soft start and soft stop duration.

RESOURCES & APPLICATIONS

Reference the Somfy Help Me Pro app for step-by-step product guidance on smart devices:
www.somfypro.com/services-support/useful-tools/help-me-app

Additional individual product information is available on Somfypro.com
Subscribe to the Somfy YouTube Channel www.youtube.com/somfysystems
Visit Somfy U for all the training you need — your pace, your place www.somfyu.com

SYSTEM REQUIREMENTS

NOTE: Prior to programming, all remotes and motors must be powered and have the programming buttons and LED indicators accessible.
Refer to the [Buttons & Indicators section of this guide](#) to reference their locations.



Follow applicable local and international standards regarding electrical installations.

To ensure electrical safety, Class III motors should be powered by a Safety Extra Low Voltage (SELV) voltage source. Use power supplies or chargers recommended by Somfy to power or recharge the motors.

Ensure motor batteries are fully charged prior to installation.

- Programming Somfy Zigbee motors and remotes is limited to room-based distances
NOTE: Distance limitation will be influenced by environmental conditions.
 - Recommended limit of 6 remotes programmed per motor
- Pairing remotes to motors will create individual remote to motor networks

BUTTONS & INDICATORS

Ysia 1 & 5 ZIGBEE REMOTES

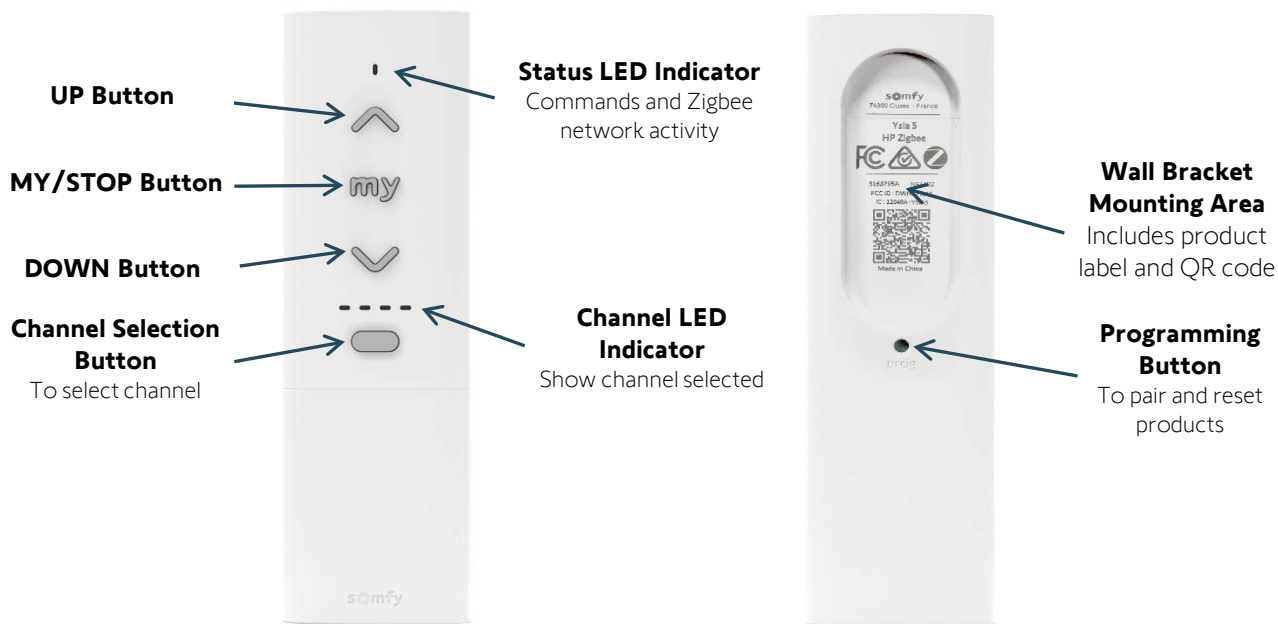
Ensure the remote is powered.

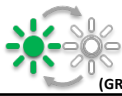
Ysia 1 & 5 Zigbee remotes require 2 AAA LR03 1.5V Alkaline batteries to be installed (included with the product).

Pressing any button will illuminate the LED(s).

Ysia 1 Zigbee #1871153

Ysia 5 Zigbee #1871154



LED INDICATORS	LED OPERATION	LED TYPE	INDICATION
STATUS LED: 	 Blinking (GREEN)	VERIFICATION	Remote is sending a command
	 Solid (GREEN)	VERIFICATION	Confirmation of setting applied to the motor
	 Quick Blinking (AMBER)	SETTING	Remote in Setting Mode with a paired motor
	 Blinking (AMBER)	SETTING	Remote is in scanning mode in a Somfy Zigbee solution - polling to pair motors
	 Blinks 3 times (RED)	WARNING	Error with setting or sending a command <i>NOTE: Check for low battery level in the remote</i>
CHANNEL LED: 	 Solid (GREEN)	VERIFICATION	Indicate the selected channel <i>NOTE: Channel 5 is indicated by 4 solid channel LEDs.</i>

BUTTONS & INDICATORS

ZIGBEE MOTORS

WAKING THE MOTOR:

Ensure the motor has required power available.

Using a small paper clip or similar, BRIEFLY PRESS the Programming Button on the head of the motor

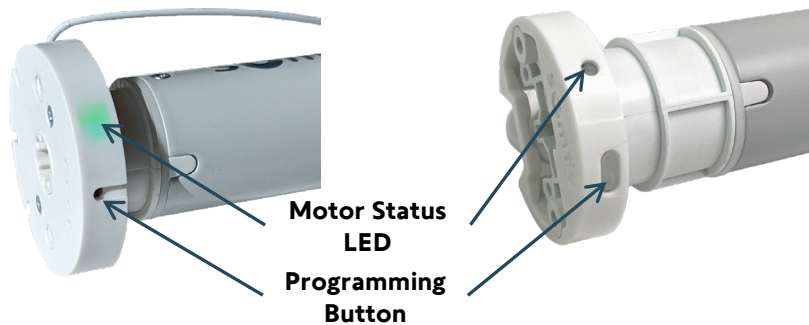
OR

PLUG IN the battery supply/charger.

The motor will jog (briefly move up and down), and the LED will illuminate **GREEN** for 2 seconds.

The LED will blink **AMBER** continuously during programming for 3 minutes and then time out.

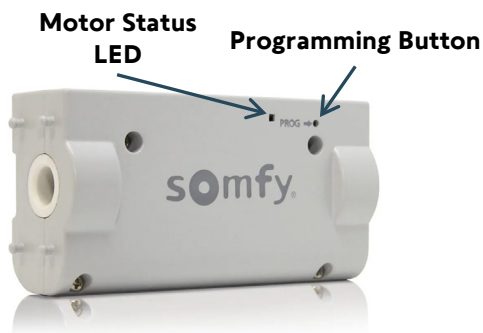
ROLLER MOTOR



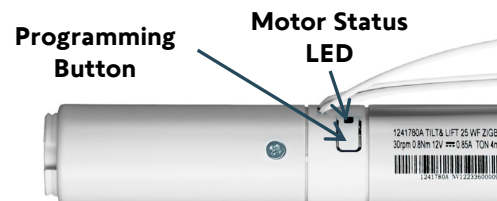
Sonesse® 30 ULTRA WireFree
Li-Ion Zigbee shown above

Sonesse® 30 24V DC Zigbee
shown above

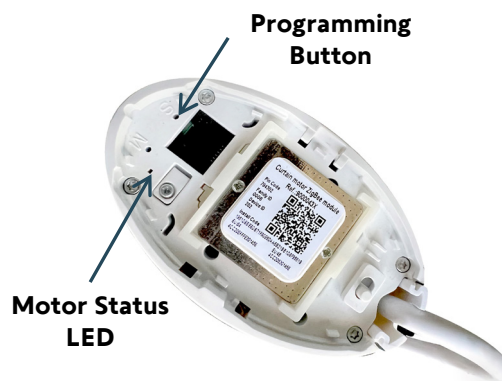
TILT MOTOR



CORD LIFT MOTOR



DRAPERY MOTOR



MOTOR STATUS LED INDICATORS:

AMBER

MOTOR IS NOT SET
IN SETTING MODE
IN ADJUSTMENT MODE

GREEN

MOTOR IS CHARGING
CONFIRMED SETTING

RED

LOW BATTERY CHARGE
THERMAL PROTECTION
IMPOSSIBLE SETTING

NOT ILLUMINATED ONCE
PAIRED AND OPERATIONAL

II. INSTALLATION

MOUNTING & POWER

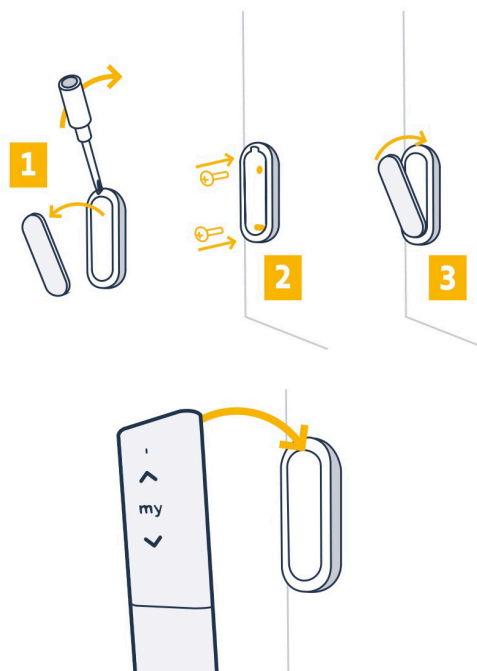
Mounting Bracket Installation

NOTE: The Ysia remote is designed to be wall mounted in portrait (vertical) orientation when not in use.
Refer to product installation instructions for additional details.

1. REMOVE the screw cover from the bracket
2. INSTALL the included mounting bracket
 - Use the included screws to mount the mounting bracket onto the mounting locations

NOTE: Consider using alternate hardware depending on the mounting surfaces.

3. REPLACE the screw cover onto the bracket



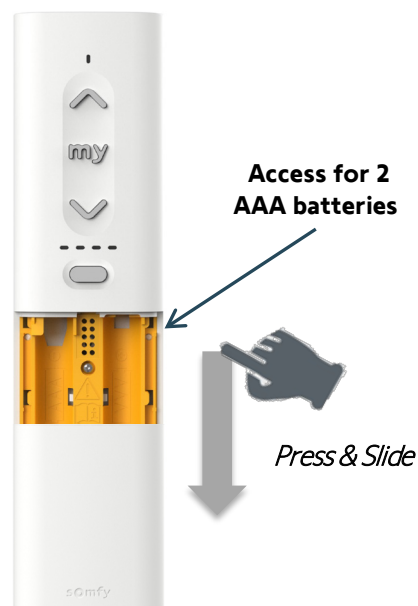
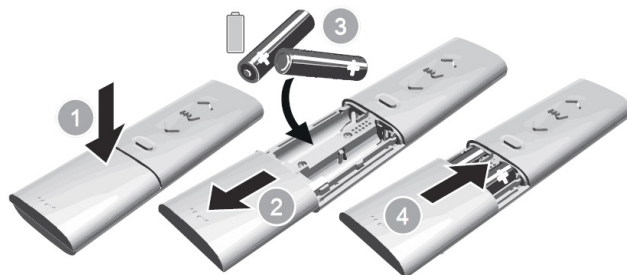
Battery Installation & Replacement

NOTE: The Ysia remote requires 2 AAA LR03 1.5V batteries for operation (included with the product).

Status LED will blink RED if the battery level is not sufficient for programming.

Once the batteries are installed, new remotes will automatically go into Programming Mode.

1. PRESS down on the top-middle of the battery cover below the Channel Selector button
2. SLIDE the battery cover down to remove
3. FOLLOW product markings for battery orientation
4. INSERT batteries into the correct positions
5. SLIDE the battery cover back into position

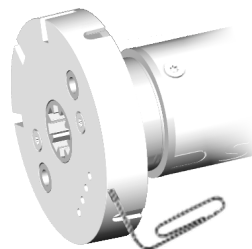


IDENTIFY THE MOTOR MODE

This section will help identify the state of a motor at any time.

This section does not apply to drapery motors.

1. ENSURE the motor is powered or charged
2. LOCATE a paper clip or other small device to access the Programming Button on the motor
3. A BRIEF PRESS of the motor Programming button may be required to wake up internal battery motors that are not paired to a remote



Follow below to determine the mode of the motor if in delivery mode or during initial power up.

Factory Mode

Motor has no limits set & no remote paired

OPERATION FROM PROGRAMMING BUTTON

Motor doesn't move sequentially from a brief press of the Programming Button located on the motor head
(Motor limits are NOT set)

NOTE: The motor will go back to Delivery Mode if left untouched for 15 minutes.

Installer Mode

Motor has limits set & no remote paired

OPERATION FROM PROGRAMMING BUTTON

Motor operates sequentially from a brief press of the Programming Button located on the motor head

User Mode

Motor has limits set & remote(s) paired

OPERATION FROM PROGRAMMING BUTTON OR REMOTE

The motor LED is off, and the motor operates sequentially from a brief press of the Programming Button located on the motor head
The motor will be operational from the remote

III. SET UP

FACTORY MODE - PAIRING & SETTING

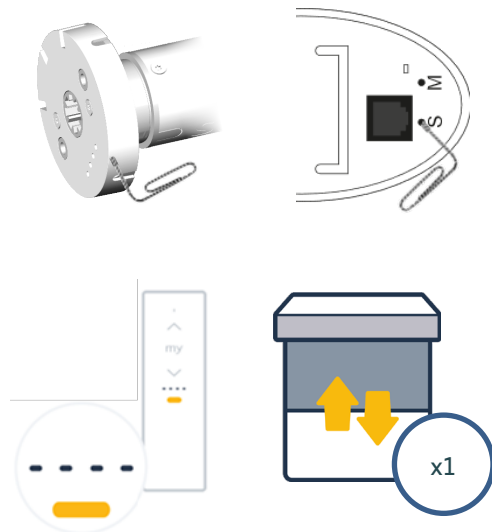
NOTE: It's important to determine if the Ysia remote will be shipped with the motorized product to determine which method will be used to complete programming.

Motor Initial Setting

Programming & Scanning Modes:

1. ENSURE motor is powered
*NOTE: If the motor LED is blinking **AMBER** (which means the motor is in Programming Mode), skip to step 4*
2. PRESS & HOLD the motor Programming button for 3 seconds until the first jog (brief up & down movement of the motor)
3. WAIT for the blinking **AMBER** LED on the motor head
4. SELECT the correct channel to program if using the Ysia 5 Channel remote
5. While nearby the motor (within 5 feet), BRIEFLY PRESS the UP and DOWN Buttons simultaneously on the remote

*NOTE: The Status LED on the remote will quickly blink **GREEN** and then blink **AMBER** to initiate Scanning Mode.*



Radio reception of the motor is reduced in Programming Mode, keep remote(s) within 5 feet of the motor head while programming.

Scanning takes several seconds and links to the nearest motor in Programming Mode.

6. WAIT for scanning to complete to establish a link with the motor
7. Once the motor LED stops blinking **AMBER** and the remote LED blinks **GREEN** two times, the motor LED will blink **GREEN** and jog once to confirm the link

*NOTE: The remote continues blinking **AMBER** while in Programming Mode.*

8. If the wrong motor is linked, BRIEFLY PRESS the UP and DOWN buttons simultaneously on the remote to start a new scanning session and find the next motor in Programming Mode
9. Once the correct motor is linked, CONFIRM motor rotation is correct by using the UP or DOWN buttons

NOTE: To reverse the rotation, PRESS & HOLD the MY button until the motor jogs once.

For drapery, the UP button should open, and the DOWN button should close the drapery.



Motor Limit Setting

All motors require limit setting to be completed during initial setup.

Use the steps below to set motor limits for all types of motor.

NOTE: Motor limit setting doesn't require an order of which direction is set first.

For Drapery Motors: Limits are set automatically by moving the motor in each direction

NOTE: The motor will continuously run until it reaches the mechanical end limits.

Setting the upper limit:

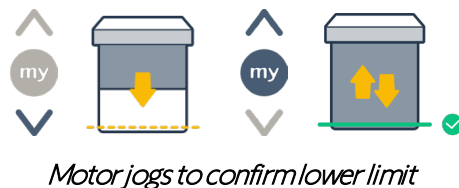
10. Using the remote, PRESS & HOLD the UP Button to move the motor to the desired upper limit
11. Once the desired limit is reached, BRIEFLY PRESS the MY and DOWN buttons at the same time, the motor jogs to confirm setting



NOTE: The motor moves incrementally when the buttons are momentarily pressed while fine tuning the limits.

Setting the lower limit:

12. Using the remote, PRESS & HOLD the DOWN Button to move the motor to the desired lower limit
13. Once the desired limit is reached, BRIEFLY PRESS the MY and UP buttons at the same time, the motor jogs to confirm setting
14. FOLLOW the steps below to set the mode and exit programming with or without pairing the remote



Limits are set and remote is not yet paired.

SET MOTOR TO INSTALLER OR USER MODE

This section describes how to set motors into Installer or User Mode concluding Factory Mode with Ysia remotes.

Follow the process below to exit programming with or without pairing the remote.

SET MOTOR TO INSTALLER MODE

Without pairing the remote to the motor

[Refer to the Installer Mode section for next steps.](#)



PRESS & HOLD the remote UP and DOWN buttons until the remote LED is solid **GREEN**.
(For approximately 5 seconds)
The motor LED continues to blink **AMBER** for 3 minutes.

*NOTE: Internal battery motors only:
Automatically enter Delivery Mode 15 minutes later.*



SET MOTOR TO USER MODE

Pairing the remote to the motor

[Refer to the User Mode section for next steps.](#)

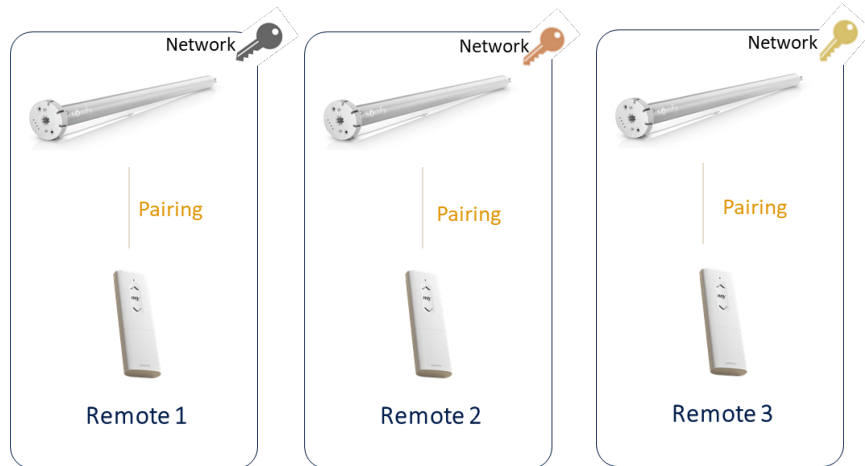
BRIEFLY PRESS the remote Programming Button, the LED goes solid **GREEN** then goes off to confirm settings & pairing. The motor jogs to confirm settings.

INSTALLER MODE

This section includes remote pairing with motors and advanced grouping functionality of the Somfy Zigbee Standalone Solution.

Network Management — Motors & Remotes

- A network is created and managed by the remote
- Network sharing is a key operation to manage group controls - pairing more than one remote to a motor or adding new remotes in an installation to control existing motors



Pairing A Remote Or Channel To A Motor

The following steps allow for adding a single remote to a motor which has limits set and is not paired.

WARNING: If the installation requires more than one remote per motor, follow [Grouping Remotes section](#) prior to adding motors to multiple remotes.
If a TaHoma is present on the installation, use the TaHoma or the TaHoma pro application

1. PRESS & HOLD the motor Programming Button for 3 seconds until the motor jogs
2. WAIT for the blinking **AMBER** LED on the motor
3. LOCATE the remote to use and SELECT the Channel to use if using a 5-channel remote
4. BRIEFLY PRESS the Programming Button of the remote to add
5. CONFIRM the remote LED begins blinking **AMBER**, then briefly blinks **GREEN** then goes off, CONFIRM motor LED blinks **GREEN** then goes off followed by one jog

NOTE: This may take several seconds; once the remote LED blinks **GREEN** and goes off the remote pairing is complete. If unsuccessful, try again closer to the motor.

The remote or channel is now paired to the motor.



Grouping Remotes

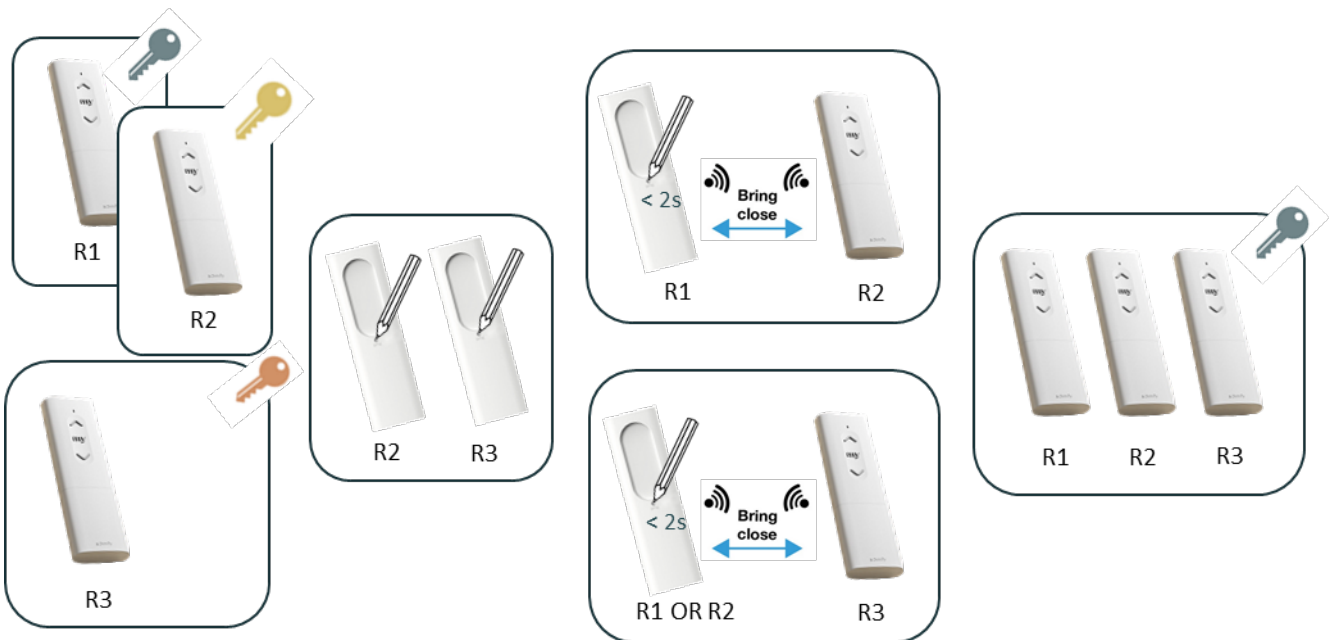
Network sharing allows for managing groups and for adding new remotes into an installation with multiple independent networks. Use the steps below to add remotes into a group network where new and existing remotes are paired with respective motor combinations.

NOTE: When remotes are added to an existing network, previous remote pairings are lost and need to be re-paired after the network sharing process.

1. LOCATE the paired remote and all additional remotes to combine on the same network
2. PRESS & HOLD the Programming Button on the remote to add (R3) until the remote Status LED blinks **RED** three times, then RELEASE
3. CONFIRM the remote Status LED is blinking **AMBER**
4. REPEAT steps 2 and 3 for all additional remotes (Example: R2 & R3)
5. POSITION all remotes in proximity (within 5 feet of each other) to share the network between each other
6. Using the existing paired remote (R1), BRIEFLY PRESS the Programming button to share the network with additional remote (R2), the LED on both remotes will turn **GREEN**
7. WAIT until the LED blinks **GREEN** to share the network with R3
8. REPEAT steps 5-7 for all additional remote(s)
9. Remote pairing is lost during the network sharing process, RECREATE any previous pairings lost during the process — Refer to [Pairing A Remote Or Channel To A Motor section of this guide](#)

NOTE: Once the remotes are reset, the motors paired to those remotes will enter into Programming Mode for 10 minutes to recreate the pairings and avoid the need of accessing the motor Programming Button.

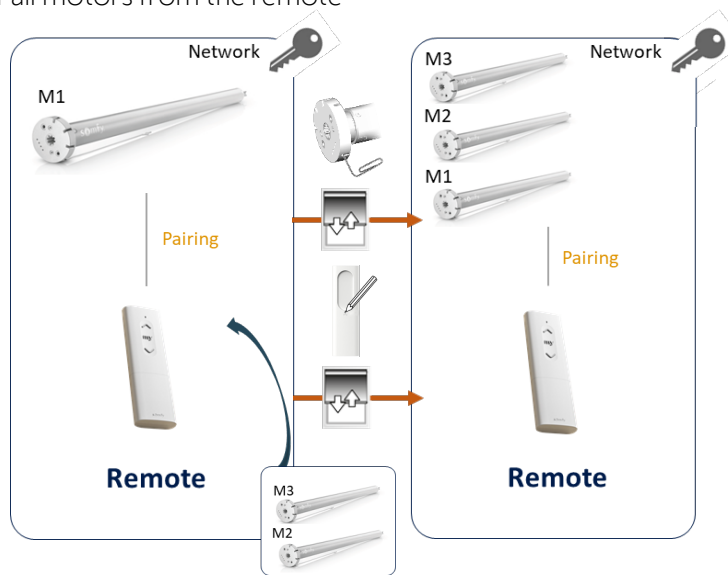
The remotes are now on a shared network and the Status LED will illuminate **GREEN when a button is pressed. If the remote Status LED blinks **RED** when a button is pressed, it is not on a shared network.**



Pairing Additional Motor(s) To A Remote Or Channel

Remotes and channels allow for pairing multiple motors to the same group. Use the steps below to add motors to the group remote that is paired using the network of the first motor.

1. LOCATE the additional motor to add to the existing remote network
2. PRESS & HOLD the motor Programming Button for 3 seconds until the motor jogs once
3. WAIT for the blinking **AMBER** LED on the motor
4. POSITION the previously paired remote near each additional motor to add (*Keep remote within 5 feet of the motor head*)
5. BRIEFLY PRESS the remote Programming Button to pair it to the additional motor
6. CONFIRM the remote LED blinks **GREEN**, followed by the motor LED blinking **GREEN** the LED will go off and the motor jogs
7. REPEAT the steps above for each additional motor
8. CONFIRM operation of all motors from the remote



Grouping Channels Of Remotes

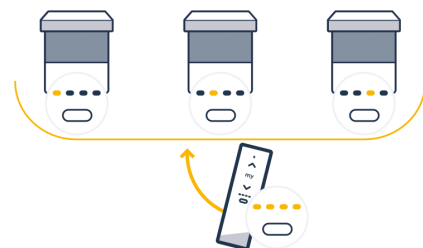
Use the steps below to combine multiple channels that are paired to individual motors into a single channel of a 5-channel remote.

The steps below can also be used to copy and paste channels from one remote to another.

1. LOCATE the remote and IDENTIFY the individual channels to combine onto a single channel

NOTE: The role of each channel remains customizable according to the user needs.

2. PRESS the Channel Selection button to select the channel where the motors to be added to the group channel are present
3. PRESS & HOLD the remote Programming Button for 3 seconds, the motor will jog
4. PRESS the Channel Selection button to select the group channel
5. BRIEFLY PRESS the remote Programming Button
6. WAIT for the motor to jog once
7. REPEAT the operation with all desired channels



Delete A Remote Or Channel

The following steps allow for deleting a remote or channel from a motor.

WARNING: If a TaHoma is present on the installation, use the TaHoma or the TaHoma pro application

NOTE: To exit Programming Mode at any time, PRESS & HOLD the UP and DOWN Buttons for 5 seconds.

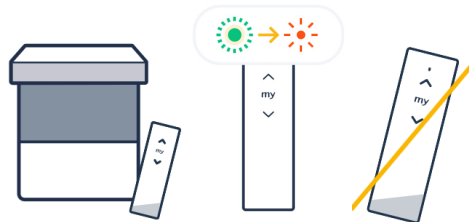
1. LOCATE the remote and SELECT the channel(if using a 5-channel remote) to be deleted
2. PRESS & HOLD the remote Programming Button for 3 seconds, then RELEASE
3. CONFIRM the motor jogs once and the LED is blinking **AMBER**
4. BRIEFLY PRESS the UP and DOWN Buttons to activate Scanning Mode of the remote in proximity of the motor to be removed

*NOTE: If multiple motors are paired and the wrong motor is linked, BRIEFLY PRESS the UP and DOWN buttons simultaneously on the remote to start a new scanning session and find the next motor in Programming Mode
Remote LED will blink **AMBER** then **GREEN**, shortly after the motor LED goes out and jogs once.*

6. PRESS & HOLD the remote Programming button for 5 seconds until the remote LED goes solid **GREEN**, then **RED**, the motor LED blinks **GREEN**, then goes off and the motor jogs once
7. TEST the remote or channel to confirm it has been deleted

NOTE: Remote Status LED will blink **RED** when channel or remote is deleted.

The remote or channel is now deleted.



USER MODE

Available Commands

This section details motor operation via the Ysia remotes in User Mode.

NOTE: Refer to the Installer Mode section for adding or removing motors or remotes.

Channel Selection:

Use the Channel Selection button on the remote to select between channels to control motors or groups.



Control a motor or group:

UP Button: *Used to raise, open, or tilt*

Short Press: Sends motor to the upper limit/open position

Long Press: Moves tilting motors up, release to stop
NOTE: PRESS & HOLD for desired length of travel.

MY/STOP Button: *Used to stop motor movement or move to previously saved my position*

Single Press: Stops the motor during movement

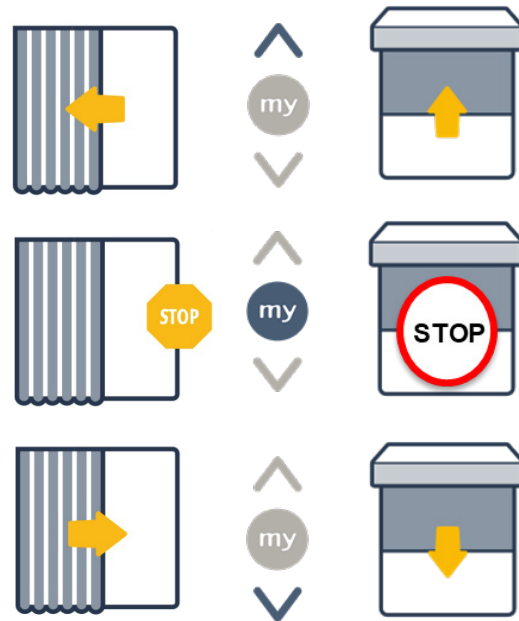
Quick Double Press: Moves motor to "my" position

DOWN Button: *Used to lower, close, or tilt*

Short Press: Sends motor to the lower limit/closed position

Long Press: Moves tilting motors down, release to stop

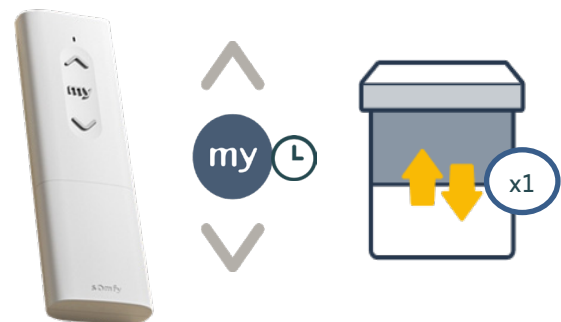
NOTE: PRESS & HOLD for desired length of travel.



"my" Position

Follow the process below to set the desired "my" position for motors.

1. CONFIRM the motor is powered
2. LOCATE the correct remote for the motor or group
3. SELECT the correct channel (If using an Ysia 5 remote)
4. PRESS & RELEASE the UP or DOWN Buttons to move the motor, then PRESS the MY Button at the desired favorite position to stop the motor
5. PRESS & HOLD the MY button until the motor jogs
NOTE: PRESS & HOLD for at least 2 seconds.
6. CONFIRM the **GREEN** LED on the remote is blinking
7. RELEASE the MY button after the LED goes to solid **GREEN** and the motor jogs once
8. MOVE the motor to the upper or lower limit, then DOUBLE PRESS the MY Button to confirm the "my" position is set



The "my" favorite position is now set at the current position.

APPENDIX

[APPENDIX A] ADJUST END LIMITS

The process below is used to adjust the product limits of travel.

NOTE: End limit adjustments should be done by the installer for proper limit setting and prevent damage to the products.

Enter Limit Adjustment Mode

1. CONFIRM the motor is powered
2. LOCATE the correct remote for the motor
3. If using the Ysia 5 Channel remote, PRESS the Channel Selector button to choose the correct channel
4. PRESS & HOLD the motor or paired remote Programming Button for 3 seconds until the motor jogs once
5. While nearby the motor, BRIEFLY PRESS the UP and DOWN buttons on the remote

NOTE: This activates Scanning Mode to establish a link with the motor.

The motor LED will stop blinking **AMBER** when the link starts, followed by the remote LED flashing **GREEN** twice. Then the motor LED will blink **GREEN** and goes off, the motor jogs once to confirm the link. The remote LED will continue to blink **AMBER** while in Programming Mode.

Setting Upper/Open Limits

6. PRESS & HOLD the UP or DOWN buttons to move the motor to the desired upper or open limit
7. BRIEFLY PRESS the MY and DOWN buttons until the motor jogs once to confirm the new upper limit



Setting Lower/Closed Limits

8. PRESS & HOLD the UP or DOWN buttons to move the motor to the desired lower or closed limit
9. BRIEFLY PRESS the MY and UP buttons until the motor jogs once to confirm the new lower limit



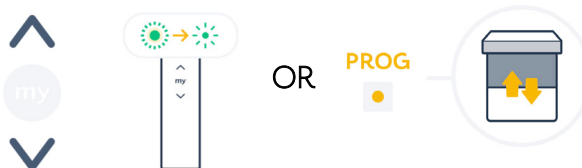
Repeat steps 6-9 until the correct limit positions are established.

Exit Limit Adjustment Mode

10. PRESS & HOLD the remote UP and DOWN buttons for 5 seconds until the remote Status LED stops flashing **GREEN**

OR

BRIEFLY PRESS the remote Programming Button,
WAIT for the motor to jog once



[APPENDIX B] FACTORY RESET

Ysia Remote Factory Reset

NOTE: Performing a factory reset on a Ysia remote does not affect the motor limits and programming. The remote configuration is irrecoverable after performing a Factory Reset; all settings will return to default, removing all motors and settings.

1. FIND the remote control to be reset
NOTE: The remote settings are not recoverable once the factory reset is complete.
2. PRESS & HOLD the Programming Button on the remote until the LED blinks **RED** 3 times
NOTE: This process takes approximately 15 seconds.
3. RELEASE the Programming Button and CONFIRM the long blinking **AMBER** LED
NOTE: The remote is in Programming Mode for 3 minutes.



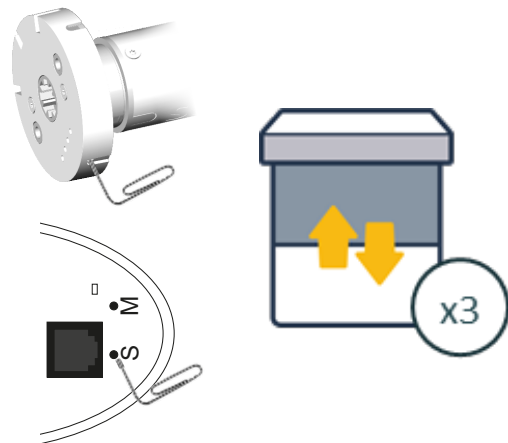
Factory reset is complete.

NOTE: If motors are paired, they will jog, leave the network, and enter Programming Mode for 10 minutes.

Motor Factory Reset

NOTE: Performing a factory reset on motors will remove all settings (end limits, speeds settings, network pairings) and return product to the default state. The motor settings are irrecoverable after performing a Factory Reset.

1. LOCATE the motor to be reset
NOTE: The motor settings are not recoverable once the factory reset is complete.
2. PRESS & HOLD the Programming Button on the motor until the motor jogs 3 times
NOTE: This process takes approximately 15 seconds.
3. RELEASE the Programming Button and WAIT for the blinking **AMBER** LED on the motor head. The motor will go into Programming Mode for the next 3 minutes and is ready for pairing.



Factory reset is complete after the motor jogs 3 times.

The motor will go into Programming Mode for 3 minutes after the motor is reset, ready for pairing.

FOR QUESTIONS OR ASSISTANCE PLEASE CONTACT TECHNICAL SUPPORT:

(800) 22-SOMFY (76639)

technicalsupport_us@somfy.com



About Somfy®

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