

# Lantern LITE™

The DIY Lantern Blind  
Wiring Diagrams & Programming Instructions



### **Motor Type 1 (Pages 2-13 of this guide)**

Somfy® RF motor (radio frequency) : Operated by a **remote control** or battery operated wall switch and is compatible with many smart home systems including Alexa and Google home (**120w and requires a 240v feed**). Requires a **5amp switched fused spur** which can be taken off a lighting circuit rather than a socket ring (electricians love this!) Remote control comes programmed and paired to the blind. The upper and the lower limits of the blind are pre set in the factory. If you decide to adjust/tweak these you must complete the process in full. If you do not complete the adjustment fully (as per the instructions) your motor will quickly run into problems and could break.

### **Motor Type 2 (Pages 14-20 of this guide)**

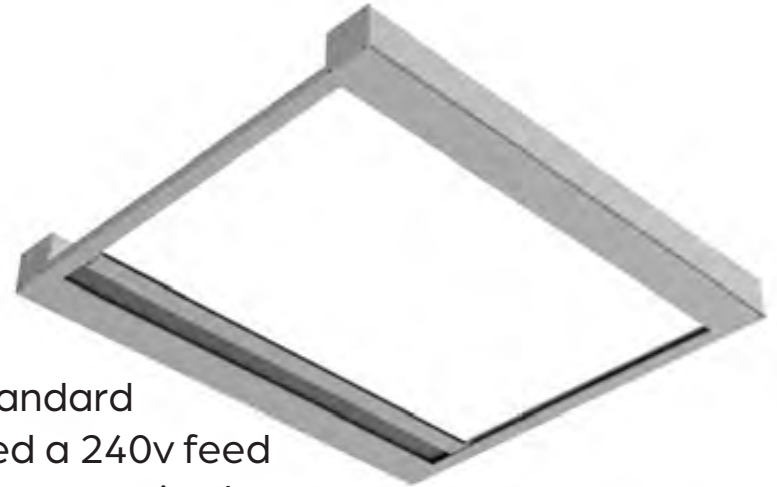
Somfy® Sonesse 40 WT hard wired motor which is operated by a latching rocker wall switch and is not compatible with home automation (120w and requires a 240v feed ). The upper and lower limits are set in the factory. But we highly recommend that you test them before you fit the blind. You can do this by plugging the blind in whilst it is still at ground level to test you are happy with the limits. It is much easier to adjust the limits when the blind is on the floor than when it is in the air.

### **Motor Type 3 (Pages 21-35 of this guide)**

Somfy® Oximo Battery /Solar operated motor. Before installation make sure you charge the battery for 12 hours. The solar panel plugs into the battery. For best results ensure the solar panel is on a South elevation.

# RTS Motor for LanternLITE™ ZIP Roller Blind

Somfy® RTS Motor

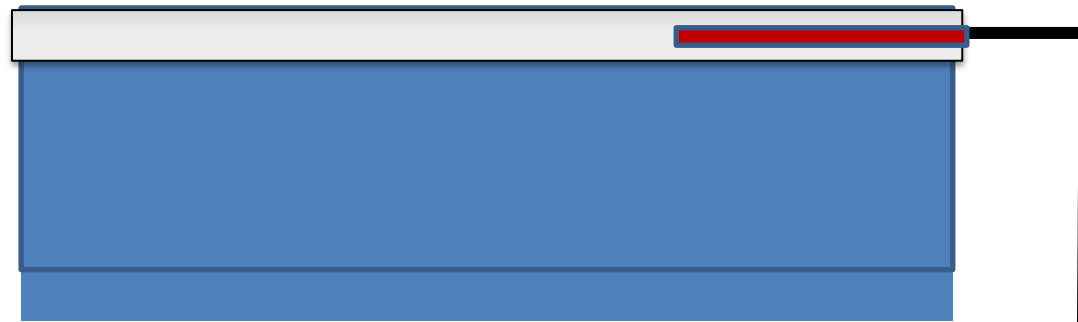


- Remote control as standard
- Motor is 120w and required a 240v feed
  - 5amp Switched fused spur required
  - Class II rated, no earth required
- Compatible with Alexa/Google Home
  - 2 Core cable (2.5m long)
  - 5 Year Guarantee

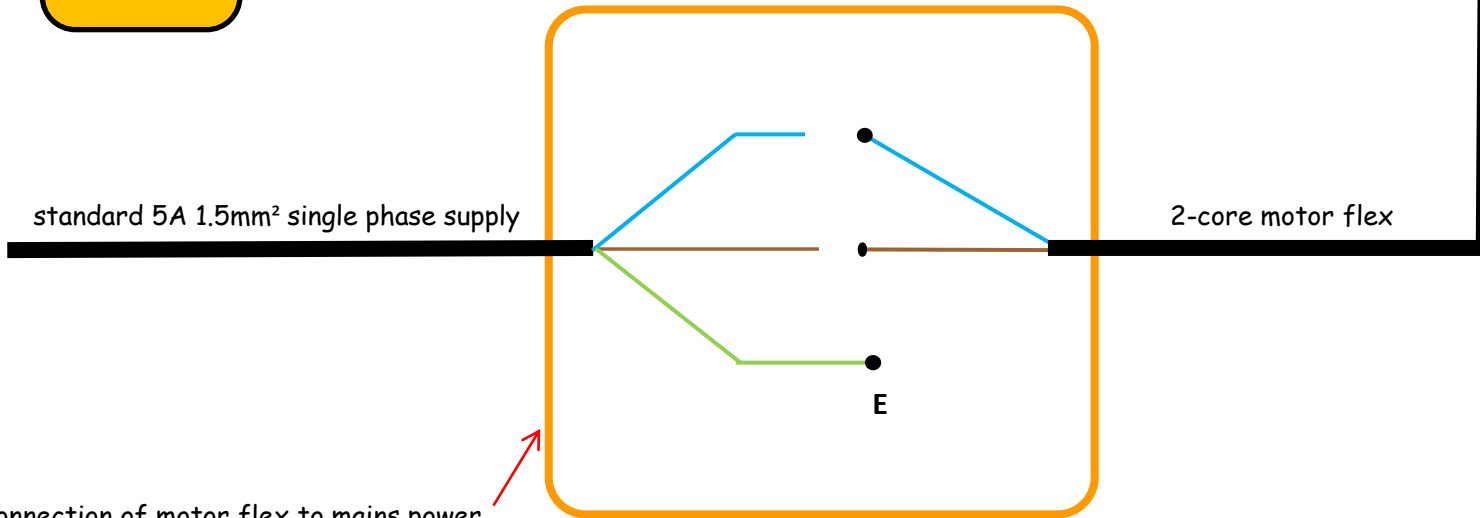


# WIRING DIAGRAM FOR SINGLE OR MULTIPLE REMOTE CONTROLLED RF BLINDS

motor which may be mounted either on the RH or LH side



Class 2 rated - no earth required



connection of motor flex to mains power (e.g. 'Klix' socket, spur unit, etc.)

Diagram based on using Somfy motors



Standard configuration Somfy® RF Radio Controlled Motor with either Remote Control or Smoove® battery operated wall switch

## NOTES

Max length of motor flex is 2.5m

For multiple blinds pair 1 blind to the motor and then turn off the power to that blind.

Then programme the other blind to it's remote control.

Only then can you power on blind one again. Failure to do this could cause problems with blind one's motor.

## DRAWING TITLE

Simplified schematic wiring diagram for radio blinds

## DRAWING NO.

## DRAWN BY

## DATE

## SCALE

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# RTS controls explained

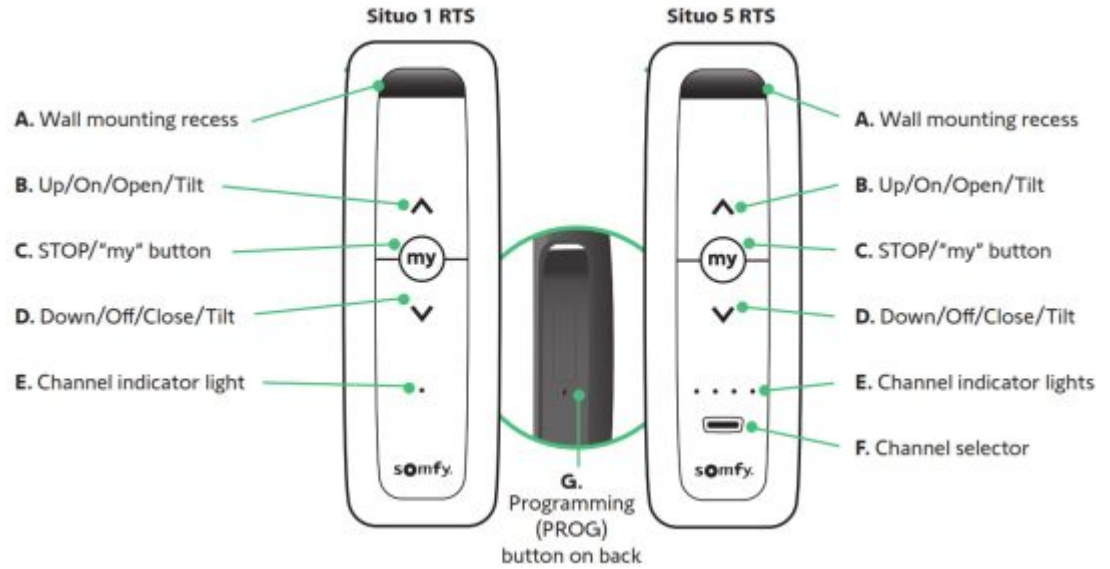
## Smooove Wall Switch



Up button

Down button

## Situ Remote Control



**This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.**

## Before You Start – Important Information



- Only the blind you want program can be connected to the power whilst programming. Disconnect all other blinds from the power to avoid interference.

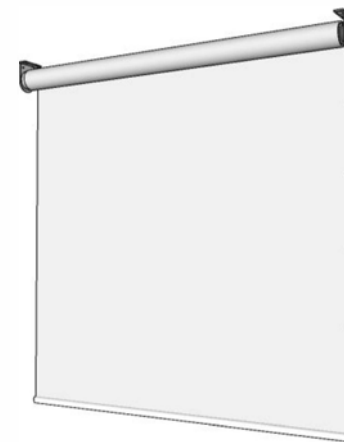
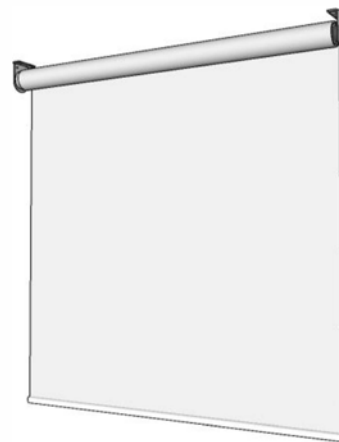
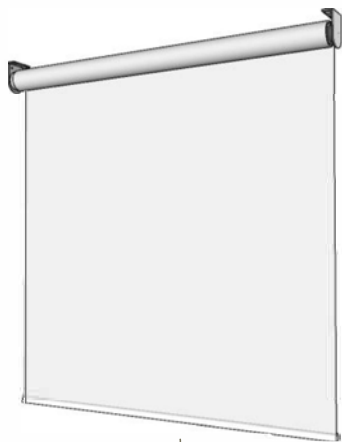
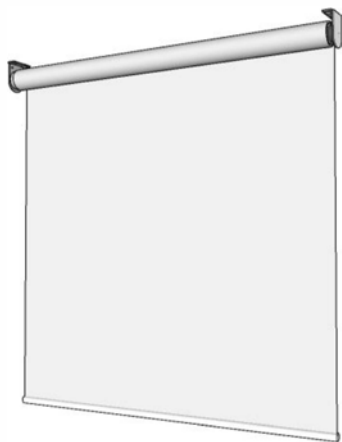


- Do not reduce the motor cable to less than 30cm as this may cause communication problems between the remote control and the motor as the motor uses the copper core of the cable as a radio antenna.
- Do not connect the power until you are ready to begin programming.

This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.

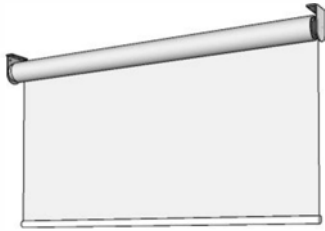
# Before You Start

Only one motor should be powered on at a time when setting limits or making any programming changes



This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.

## Pairing The Remote - Pairing the remote and setting turning direction



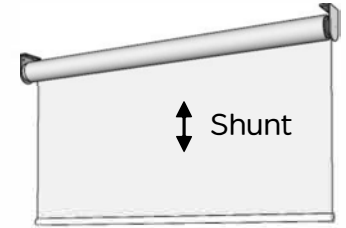
Connect the power to the blind you want to program.





You now have 60 seconds to complete the steps on this page and pair the remote control



If you have a multi channel remote, select the channel you wish to pair the blind to



Press and hold the   buttons together on the remote control until the blind shunts

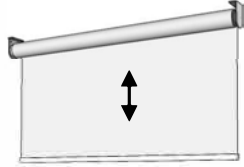



Pairing complete



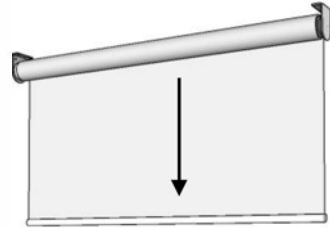
This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.


# Changing Turning Direction - Check and change the turning direction of the motor

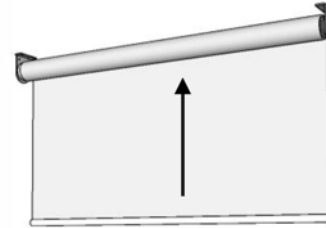



Press and hold the  button and observe the direction the blind travels.

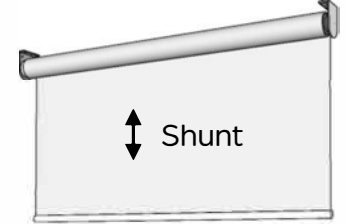
It could travel in either direction depending on which side the motor is on




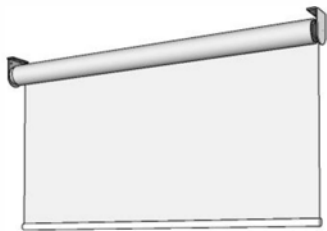
If the blind travels DOWN when you press the  button you can skip the rest of this page and move straight on to setting the limits



If the blind travels UP when you press the  button you need to change the turning direction





Press and hold the  button until the blind does a shunt



Turning direction changed



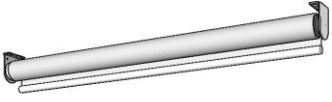
You can now check the turning direction is correct by pressing and holding EITHER the  or  button

The motor is still in programming mode so you have to press and hold to drive the blind

This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.

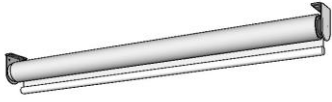
# Adjusting Limits

How to adjust any limit. The upper and lower limits are set in the factory but you may wish to tweak them.





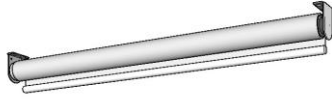
Either top or bottom limit



Move the blind to the limit you wish to adjust

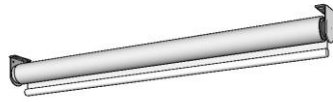


Shunt


Press and hold the   buttons together until the blind shunts

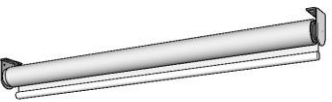


Use the   buttons to move the blind to the new stop position you wish to set



Shunt

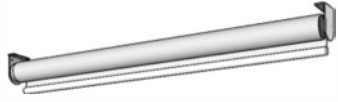
Press and hold the  button until the blind shunts



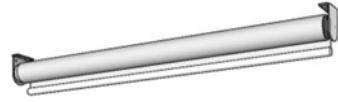
Limit Adjusted

This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.

## Setting Limits ▬ Set a top and bottom limit position



Use the ▲ ▼ buttons to move the blind to the position required for a top limit



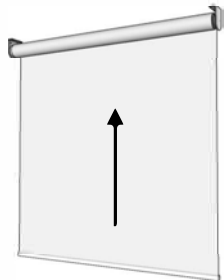
Press and hold the ▼ MY buttons together until the blind starts to open



Press the MY button once to stop the blind moving



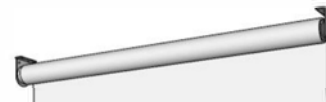
Use the ▲ ▼ buttons to move the blind to the position required for a bottom limit



Press and hold the ▲ MY buttons together until the blind starts to open



Press the MY button once to stop the blind moving



Press and hold the MY button until the blind shunts



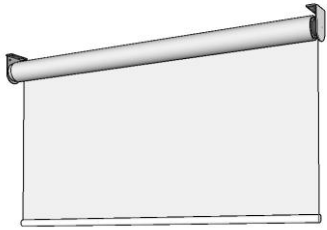
Press and hold the red button on the back of the remote until the motor shunts



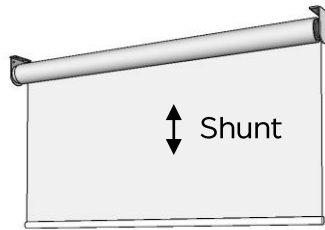
Limits Set

# Intermediate Stop Position

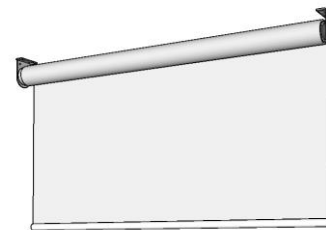
It is optional to set an intermediate stop position



Drive the blind to a middle position where you require an intermediate stop



Press and hold the **MY** button until the blind shunts

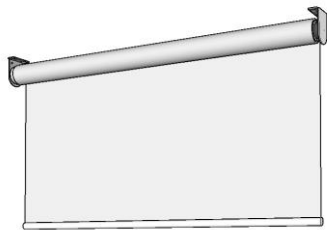


Intermediate stop set

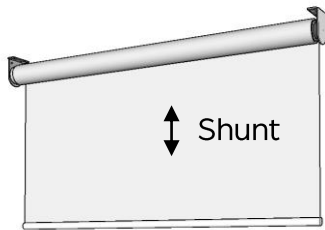


The intermediate stop position (or MY position) can not be in the same place as the top or bottom limit position

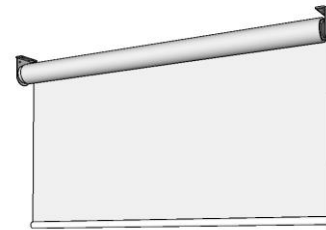
Deleting the intermediate stop position



Press the **MY** button to drive the blind to the intermediate stop position



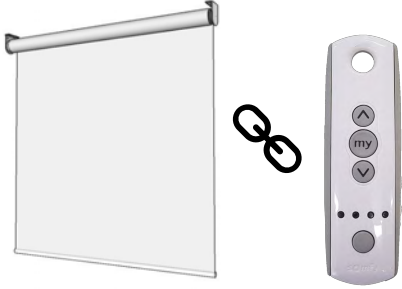
Press and hold the **MY** button until the blind shunts



Intermediate stop removed

# Adding Remotes

Copying a channel on one remote to a new remote



Start with a remote control that is already paired to the motor



If you have a multi channel remote, select the channel you wish to pair the blind to



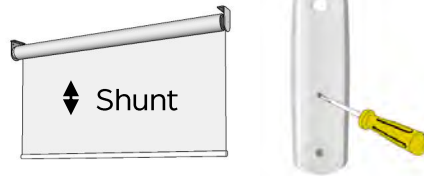
Press and hold the red button on the back of the remote until the motor shunts



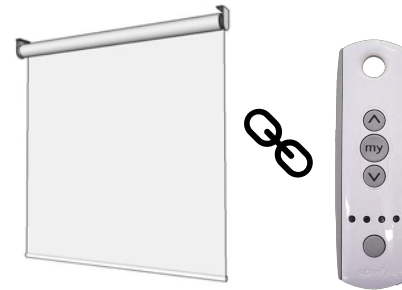
Within 60 seconds, take the new remote control...



If it is a multi channel remote, select the channel you wish to pair the blind to



Press and hold the red button on the back of the remote until the motor shunts



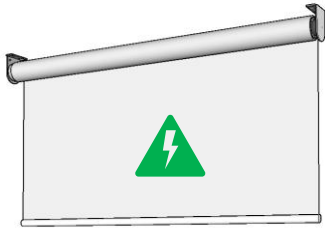
New remote paired



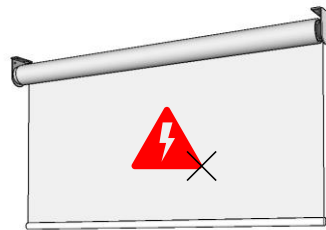
Repeat this procedure for each channel you want to copy to the new remote control

# Motor Reset

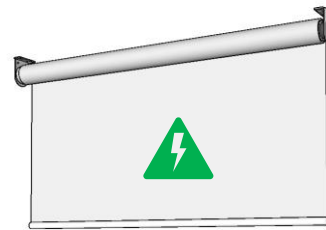
Reset motor back to factory settings – wipes all remotes, limits and sensors



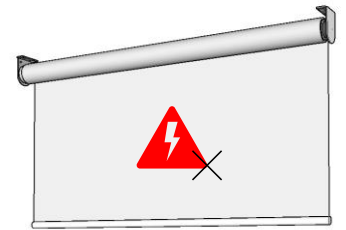
Begin with the power applied to the blind for at least 60 seconds



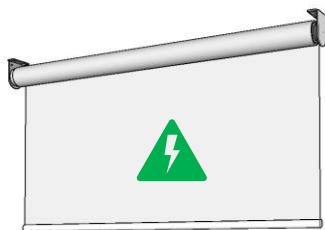
Turn off the power for 10 seconds



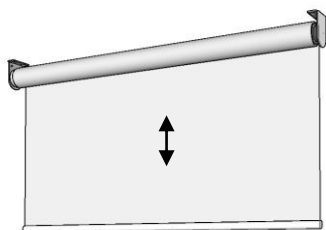
Turn on the power for 10 seconds



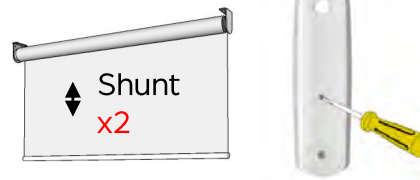
Turn off the power for 10 seconds



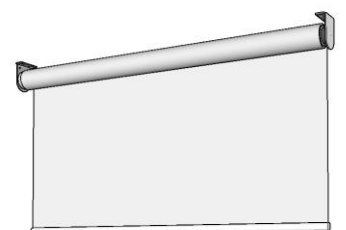
Turn on the power



The blind will now travel for 5 seconds in one direction



Press and **hold** the button on the back of the handset until the blind shunts **2 times** with a **pause** between the shunts



Factory reset complete

## WT Motor for LanternLITE™ ZIP Roller Blind

Somfy® Sonesse 40 WT Motor

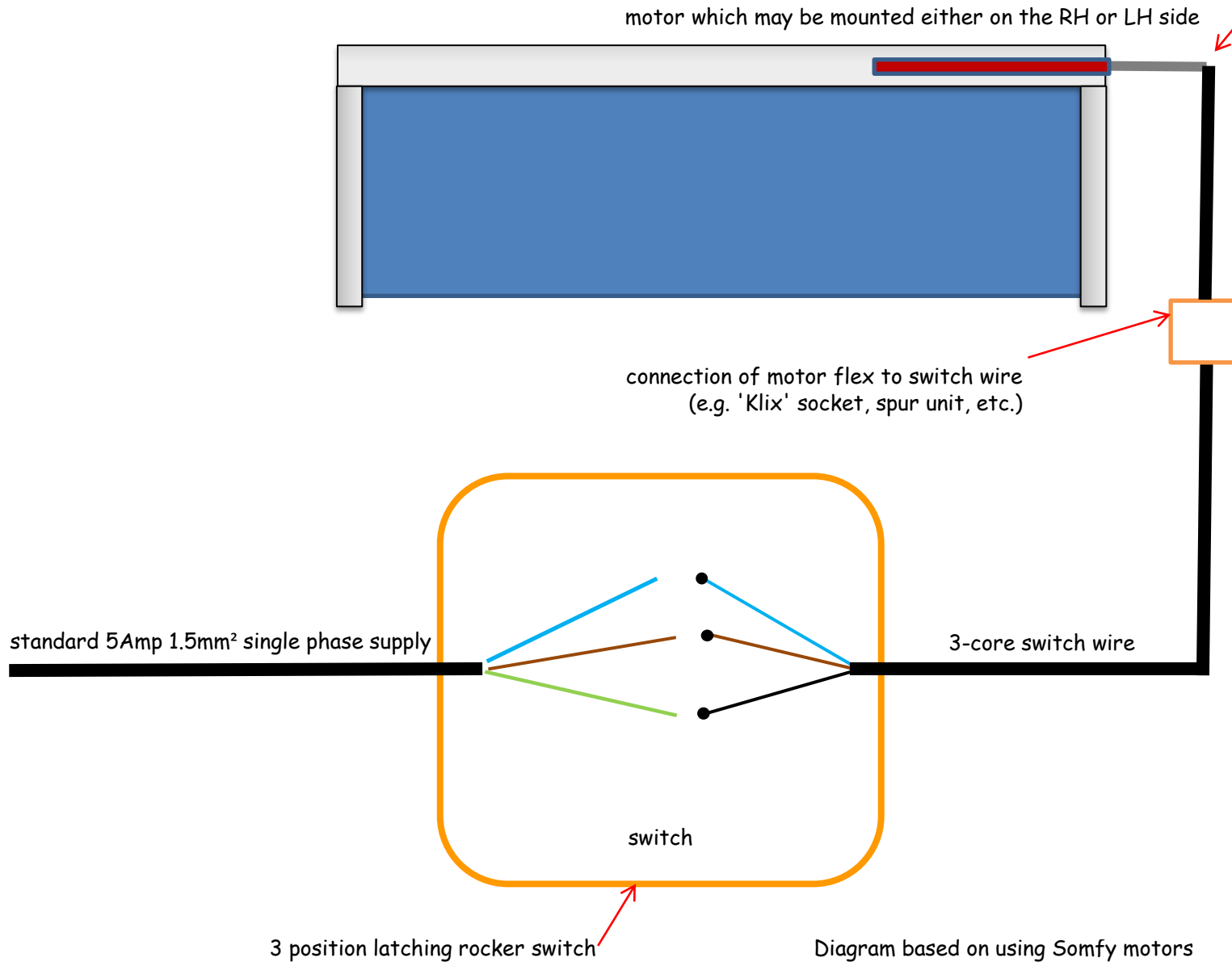
\*\*Switch Control\*\*



- Motor is 120w and required a 240v feed
  - Class II rated, no earth required
- Operated by a latching rocker wall switch
  - Switched fused spur required
    - 3 Core cable (2.5m long)
    - 5 Year Guarantee

# WIRING DIAGRAM FOR SINGLE SWITCH OPERATED HARD WIRED BLIND

Configuration for hard wired Somfy® Motor with 3 position latching rocker switch.



## NOTES

Max length of motor flex is 2.5m

N.B. This wiring arrangement is only for one motor with one switch. Additional motors from one switch MUST be wired via a relay.

## DRAWING TITLE

Simplified schematic wiring diagram for hardwired blinds

## DRAWING NO.

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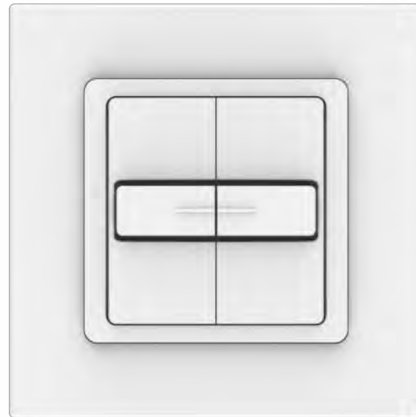
# WT control Options

## Wall Switch



Smooove Uno WT

For 1 blind



Smooove Duo WT

For 2 blinds

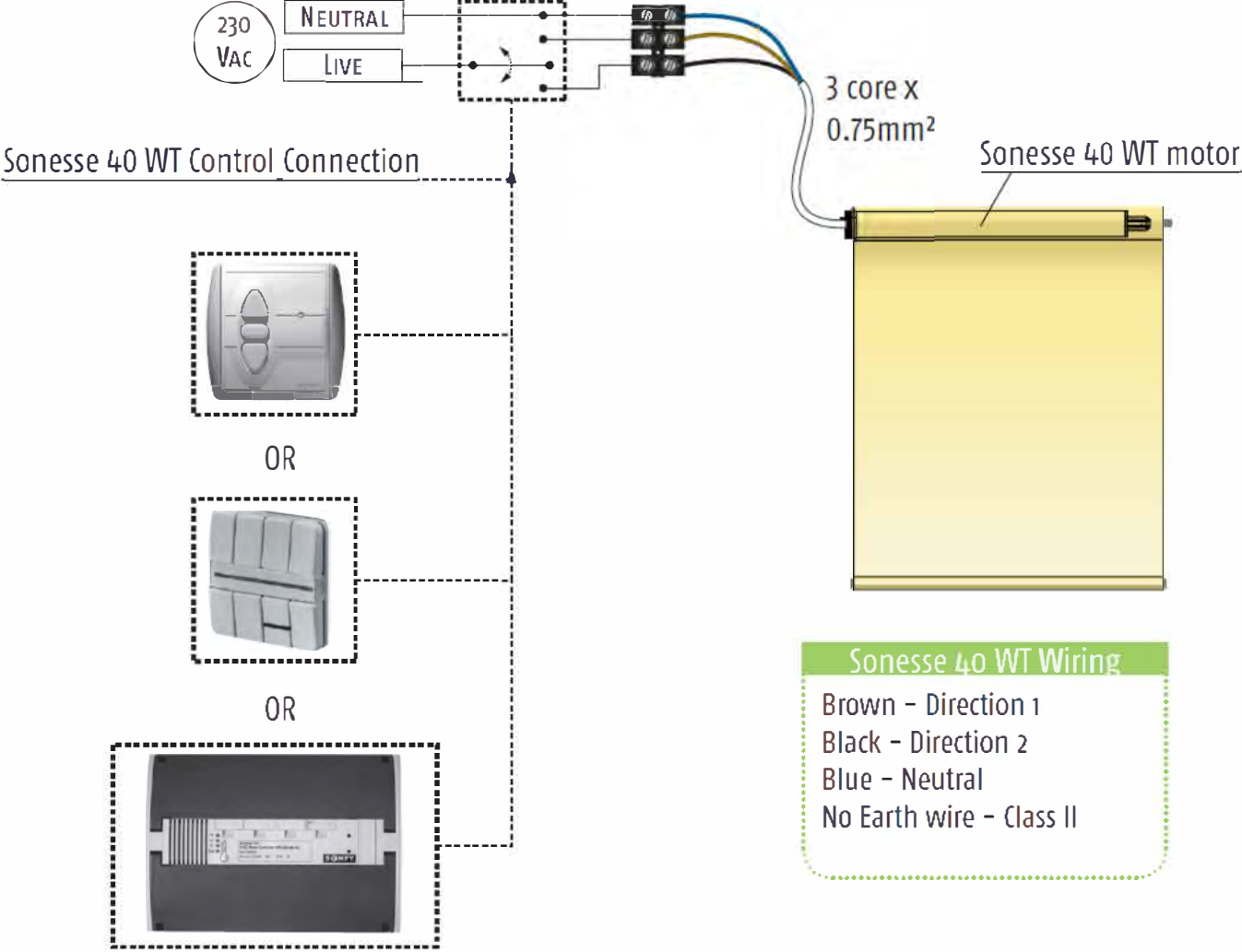
A wall switch may be connected directly to a single blind but wiring multiple Somfy WT blinds in parallel will result in damage to the motors

When group operation or home automation control is required a motor relay will be necessary



## Motor Relay

# Somfy WT 230v motor wiring



*The Sonesse 40 motor range is Class II rated – no earth required*

# Before You Start – Important Information



To control more than one blind from a single switch you must use a motor relay. Wiring multiple Sonesse 40 WT's in parallel will result in damage to the motor.



Somfy motors do not have replaceable cables so take care when reducing the length.

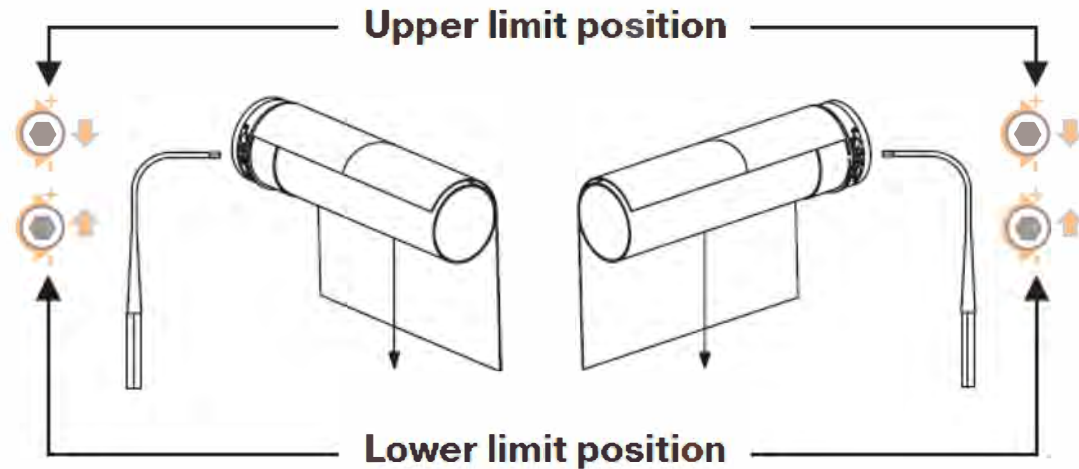
Do not use an electrical tool to adjust the limit positions

The motor should be moved away from the stop position before limits are altered

Your LanternLITE™ WT switch operated blind is set up and tested in the factory. We set the upper and lower limits for you. However before installation we highly recommend that you test the blind at ground level to confirm that you are happy with the limits. It is much easier to adjust the limits when the blind is on the floor, than when it is in the air. See how to adjust limits on the next page.

# Setting/Adjusting Limits

Limits are always set on the Somfy WT motor – you just need to adjust them to suit your window



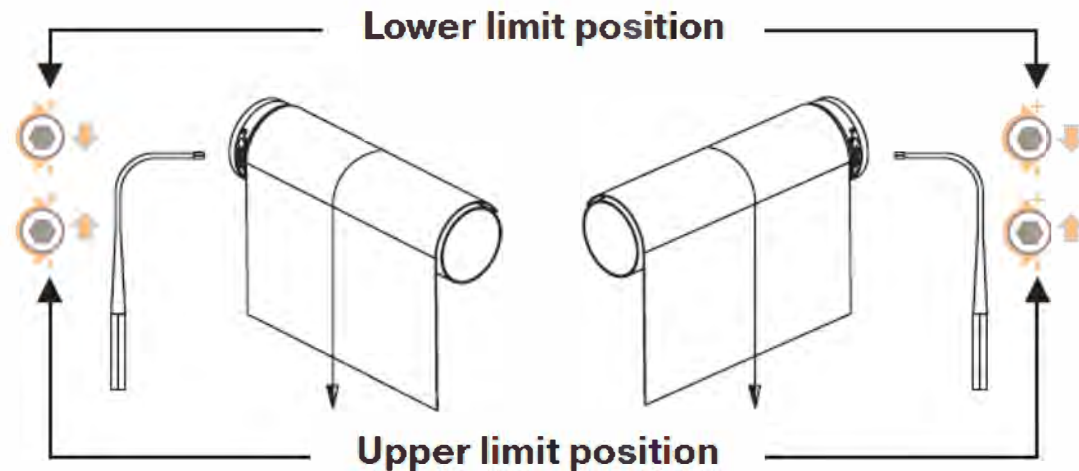
The position of the motor, to the right or left, and the way the fabric is rolled on the tube, impacts how to set the limits

Turning towards the + on either screw moves the limit further away from opposite limit.

For example, turning the Upper Limit Screw towards the + will move the top limit towards the tube

Therefore turning the Lower Limit Screw towards the + will move the bottom limit away from the tube

i.e. if the limit is beyond the top of the blind you need to turn the Upper Limit Screw towards the – to bring the limit back.

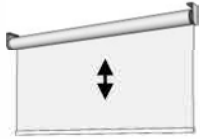


Do not use an electrical tool to adjust the limit positions

The motor should be moved away from the stop position before limits are altered

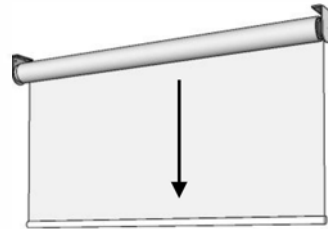
# Changing Turning Direction

Check and change the turning direction of the motor

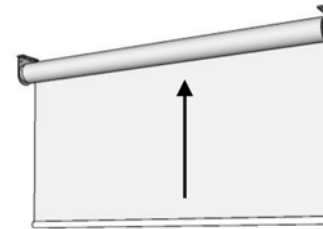


Connect a switch or setup tool and press and hold the ▼ button and observe the direction the blind travels.

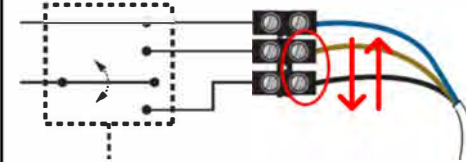
It could travel in either direction depending on which side the motor is on



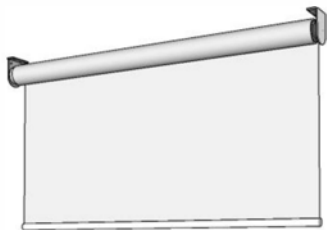
If the blind travels DOWN when you press the ▼ button you can skip the rest of this page and move straight on to setting the limits



If the blind travels UP when you press the ▼ button you need to change the turning direction



Swap the black and brown cores around on the connection between the motor and the switch



Turning direction changed

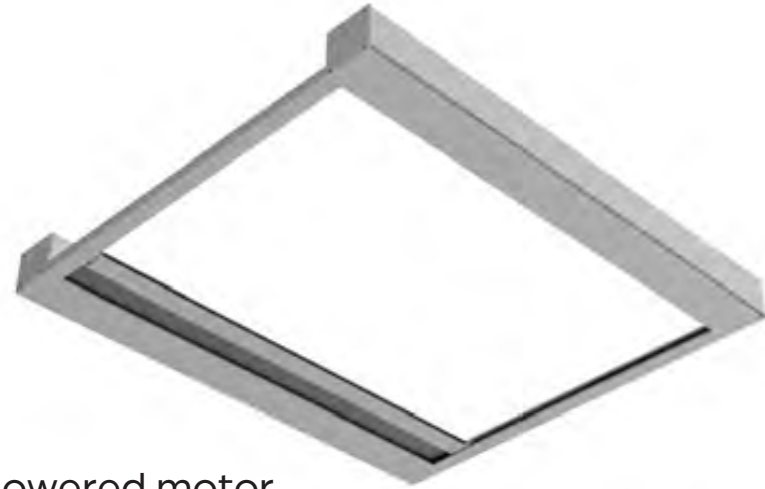


You can now check the turning direction is correct by pressing and holding EITHER the ▲ or ▼ button

The motor is still in programming mode so you have to press and hold to drive the blind

# Battery/Solar Motor for LanternLITE™ ZIP Roller Blinds

Somfy® Oximo Battery/Solar RTS Motor



- Battery/Solar powered motor
  - No power necessary
    - Long battery life
    - 5 Year guarantee
- Compatible with Alexa/Google Home



## Battery/Solar Motor for LanternLITE™ ZIP Roller Blinds



If it is difficult for you to get power into your roof space, but you want motorised blinds then we have the solution for you.

The Somfy® Oximo WireFree RTS motor (battery operated with a Solar top up). From the motorisation brand Somfy®, the Oximo Battery Solar operated motor is powerful and reliable, ideal for applications where power is difficult to access,

### How it Works

Simply charge the battery pack for 12 hours when you first receive the blind then once the blind is installed attach the battery and solar panel to the motor and operate your blind. The solar panel will trickle charge the battery constantly. It is impossible to say when the battery will need topping up with the charger as there are lots of variables, such as blind use, outdoor sun exposure etc. Instead of containing an internal battery this motor uses an external battery pack which makes charging and maintenance easy.

The solar panel needs to be installed on a south elevation. It is important the solar panel gets plenty of daylight to charge the battery pack. If the solar panel is installed facing North, or is often in shadow, then there is likely to be an issue with the battery pack draining faster than charging.

## How to Charge Your battery

*This is a battery solution, if it is overused then you may drain the battery before the solar panel has time to recharge it.*

It is important for you to **monitor the blind**. If you feel the blind is moving slower than usual you may judge that it is time to top up the battery with the mains charger provided. The battery is usually hidden by you the installer above the head of the blind for a nice aesthetic. It can therefore be difficult to charge the battery if the blind fails in the shut position. The battery is charged in the same port that the solar panel is plugged into, therefore the solar panel needs to be disconnected from the battery before charging is possible.

You can charge the blind in situ in your reveal with the help of an extension cable.

## Steps to install the blind

1. Charge battery pack for 12 hours.
2. Install the blind.
3. Connect solar panel to battery pack.
4. Connect battery pack to the motor and position safely above the head of the blind.  
Position solar panel above the blind on a south elevation for best results.
5. Operate the blind with the remote control.
6. Set up complete.



## Specification

12V cc tubular motor

Built-in high frequency receiver

12V Solar panel

Lithium battery pack 12V - 2Ah

RTS control and limit setting

Reception range: 20 metres through 2 concrete walls.

Simple commissioning procedure using a remote control. Supplied as standard with a white 3-core (VVF) cable. length 5 m.

This motor can be used on the LanternLITE Twin ZIP Roller blind, reaching a massive 18m<sup>2</sup> with battery operation.

Quick installation thanks to the plug and play wiring system

Quick and easy adjustment and operation with wireless RTS controls, e.g. Telis remote control

## Wireless Control Options

Wireless timer Chronis Comfort RTS with/without light sensor

Wireless sun sensor Sunis Indoor Wirefree RTS

Tahoma automated controls e.g. Alexa & Google Home

# RTS controls explained

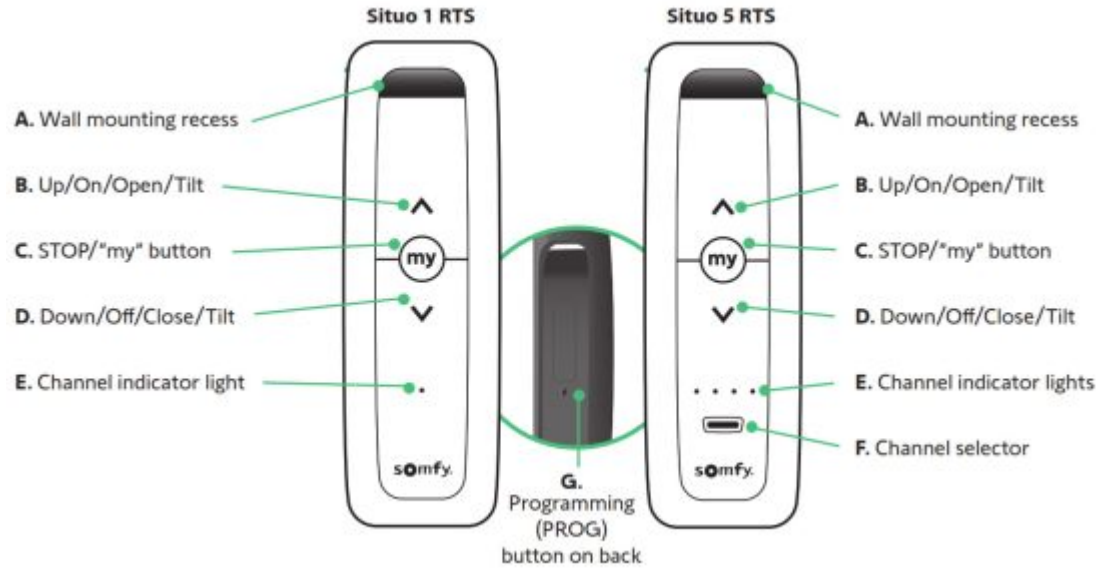
## Smooove Wall Switch



Up button

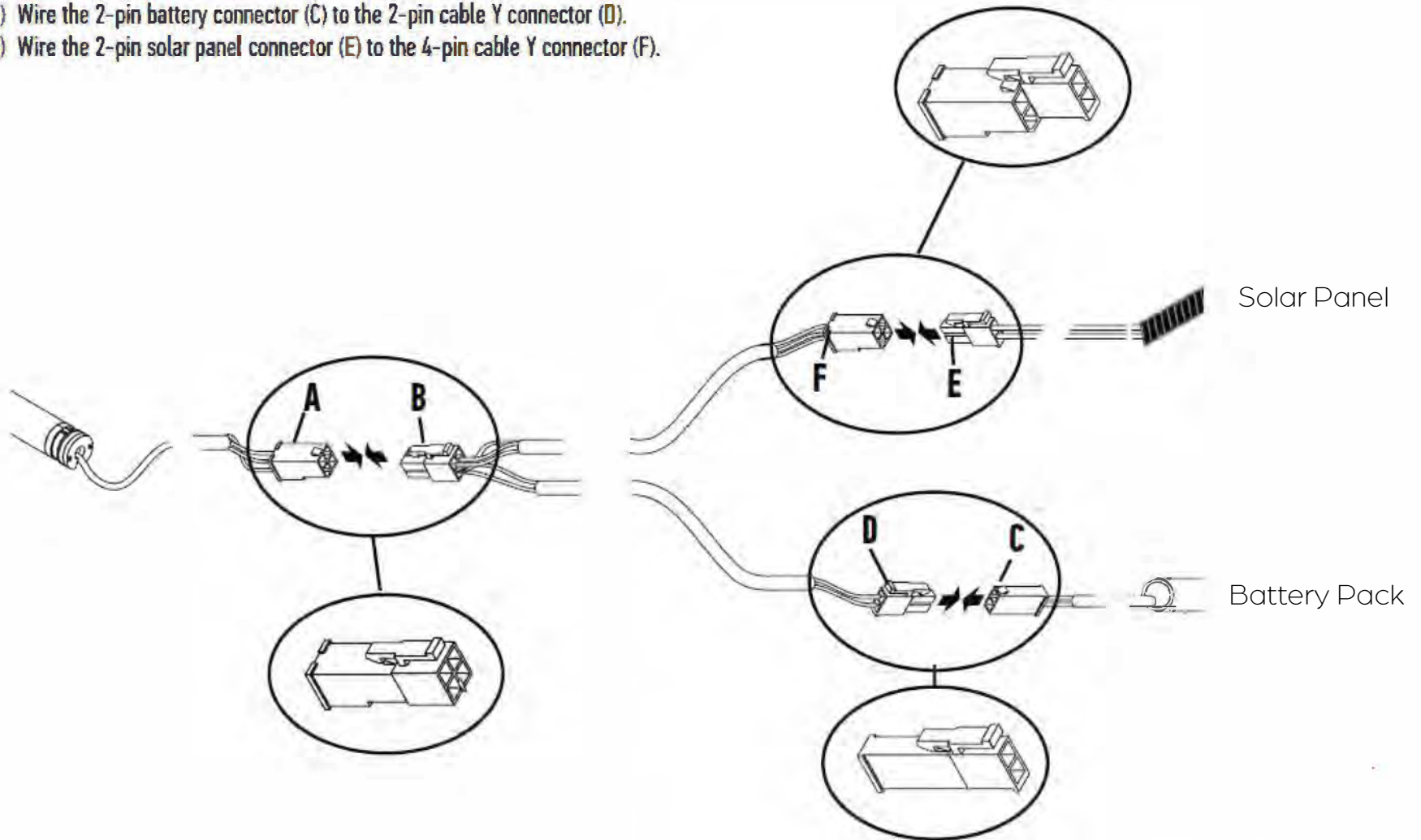
Down button

## Situ Remote Control



# Somfy Oximo motor wiring

- 1) Wire the 4-pin motor connector (A) to the 4-pin cable Y connector (B).
- 2) Wire the 2-pin battery connector (C) to the 2-pin cable Y connector (D).
- 3) Wire the 2-pin solar panel connector (E) to the 4-pin cable Y connector (F).



**\*\*\*This page and the following pages are only relevant if you are sending\*\*\*  
**\*\*\*the blind back to factory settings or you are changing the blinds limits.\*\*\*****

## Before You Start – Important Information



- Only the blind you want program can be connected to the power whilst programming. Disconnect all other blinds from the power to avoid interference.

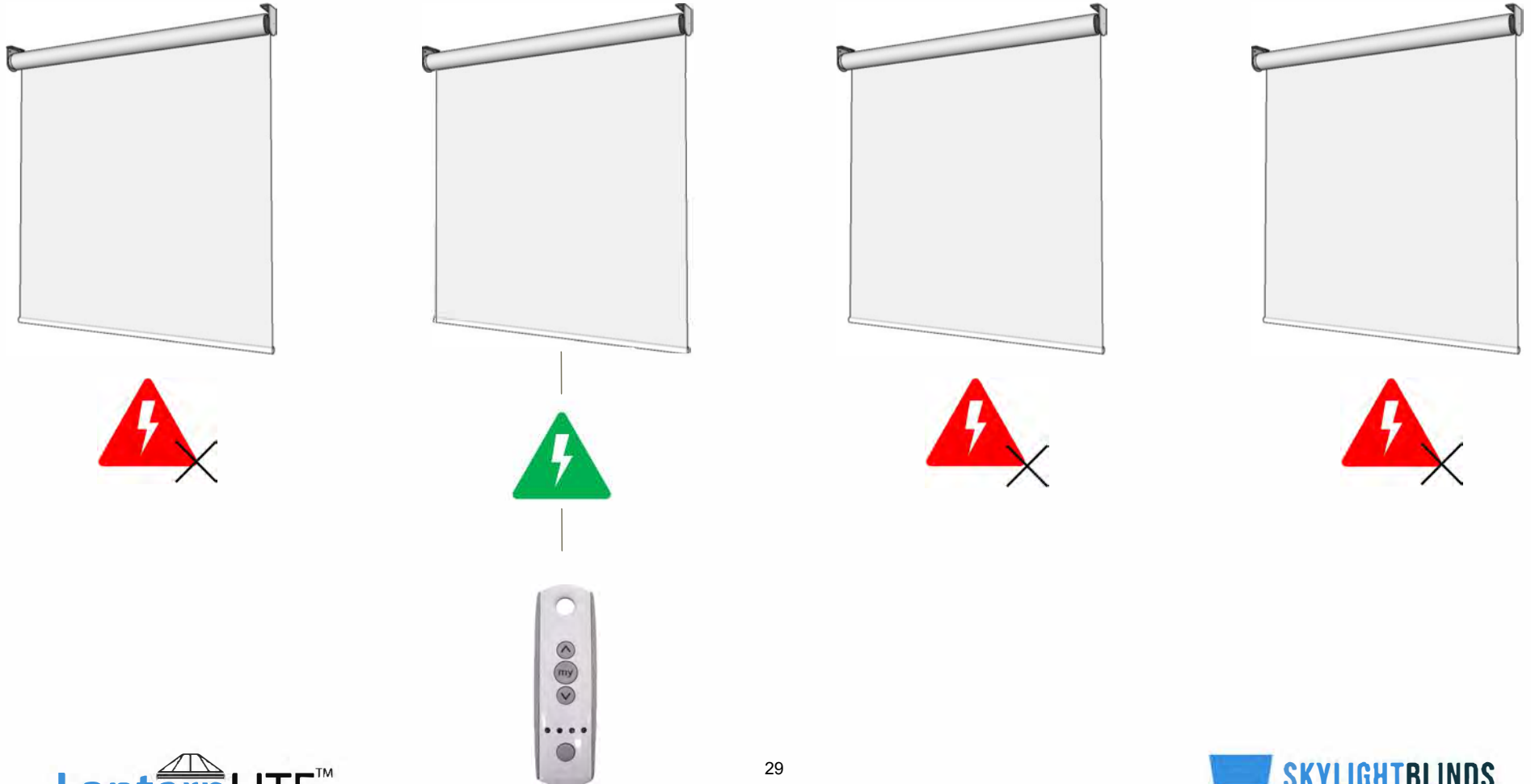


- Do not reduce the motor cable to less than 30cm as this may cause communication problems between the remote control and the motor as the motor uses the copper core of the cable as a radio antenna.
- Do not connect the battery pack until you are ready to begin programming

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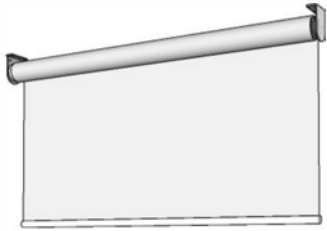
# Before You Start

Only one motor should be powered on at a time when setting limits or making any programming changes



\*\*\*This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.\*\*\*

## Pairing The Remote - Pairing the remote and setting turning direction



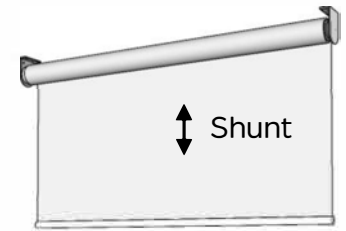
Connect the battery to the blind you want to program.





You now have 60 seconds to complete the steps on this page and pair the remote control



If you have a multi channel remote, select the channel you wish to pair the blind to



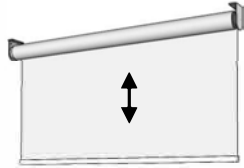
Press and hold the   buttons together on the remote control until the blind shunts




Pairing complete

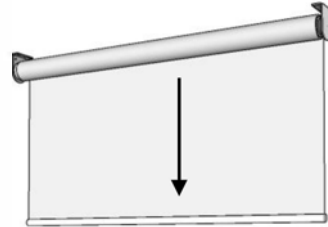
\*\*\*This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.\*\*\*


# Changing Turning Direction - Check and change the turning direction of the motor

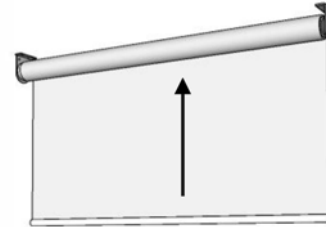



Press and hold the  button and observe the direction the blind travels.

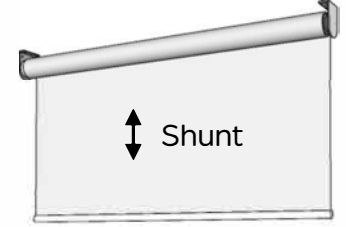
It could travel in either direction depending on which side the motor is on




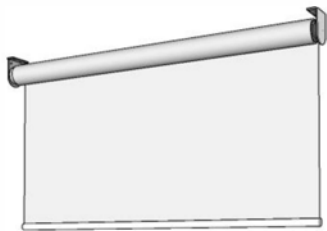
If the blind travels DOWN when you press the  button you can skip the rest of this page and move straight on to setting the limits



If the blind travels UP when you press the  button you need to change the turning direction





Press and hold the  button until the blind does a shunt



Turning direction changed



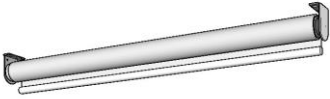
You can now check the turning direction is correct by pressing and holding EITHER the  or  button

The motor is still in programming mode so you have to press and hold to drive the blind

\*\*\*This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.\*\*\*

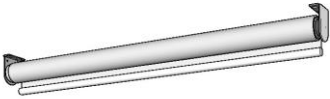
# Adjusting Limits

How to adjust any limit. The upper and lower limits are set in the factory but you may wish to tweak them.





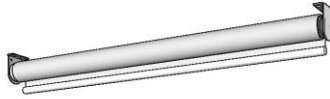
Either top or bottom limit



Move the blind to the limit you wish to adjust

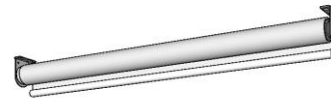


Shunt


Press and hold the   buttons together until the blind shunts

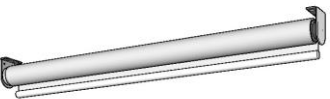


Use the   buttons to move the blind to the new stop position you wish to set



Shunt

Press and hold the  button until the blind shunts

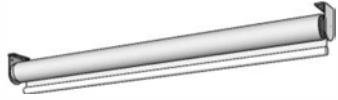


Limit Adjusted

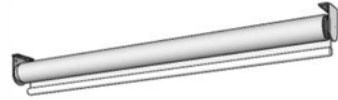


**\*\*\*This page and the following pages are only relevant if you are sending the blind back to factory settings or you are changing the blinds limits.\*\*\***

## Setting Limits ▬ Set a top and bottom limit position



Use the ▲ ▼ buttons to move the blind to the position required for a top limit



Press and hold the ▼ MY buttons together until the blind starts to open



Press the MY button once to stop the blind moving



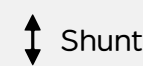
Use the ▲ ▼ buttons to move the blind to the position required for a bottom limit



Press and hold the ▲ MY buttons together until the blind starts to open



Press the MY button once to stop the blind moving



Press and hold the MY button until the blind shunts



Shunt



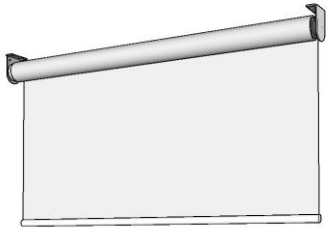
Press and hold the red button on the back of the remote until the motor shunts



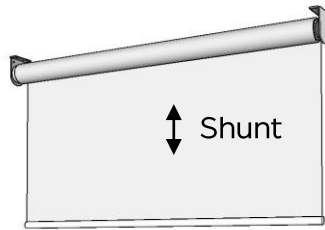
Limits Set

# Intermediate Stop Position

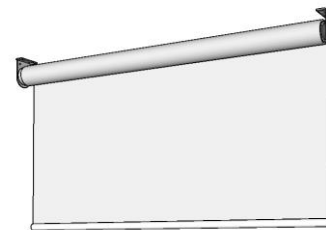
It is optional to set an intermediate stop position



Drive the blind to a middle position where you require an intermediate stop



Press and hold the **MY** button until the blind shunts

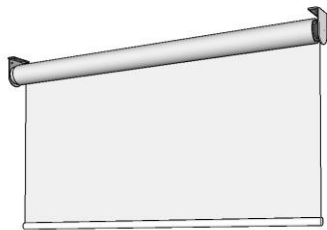


Intermediate stop set

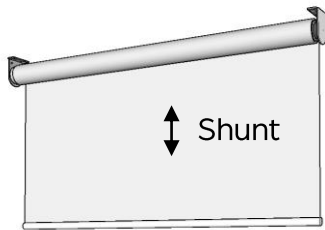


The intermediate stop position (or MY position) can not be in the same place as the top or bottom limit position

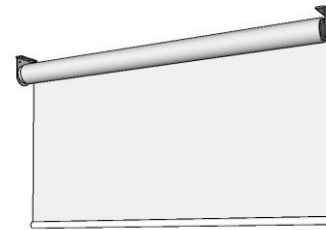
Deleting the intermediate stop position



Press the **MY** button to drive the blind to the intermediate stop position



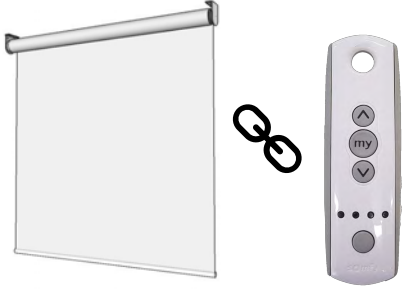
Press and hold the **MY** button until the blind shunts



Intermediate stop removed

# Adding Remotes

Copying a channel on one remote to a new remote



Start with a remote control that is already paired to the motor



If you have a multi channel remote, select the channel you wish to pair the blind to



Press and hold the red button on the back of the remote until the motor shunts



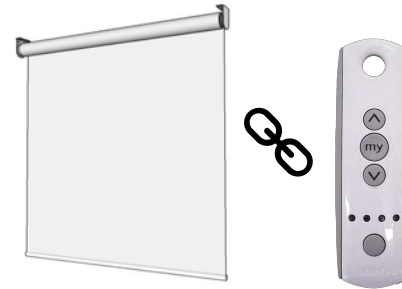
Within 60 seconds, take the new remote control...



If it is a multi channel remote, select the channel you wish to pair the blind to



Press and hold the red button on the back of the remote until the motor shunts



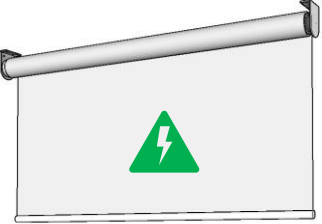
New remote paired



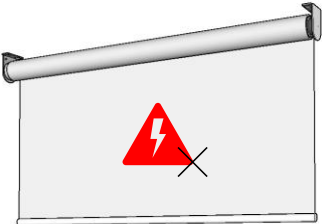
Repeat this procedure for each channel you want to copy to the new remote control

# Motor Reset

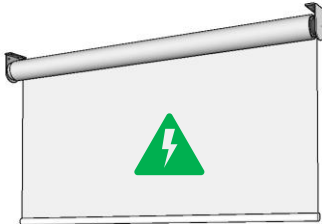
Reset motor back to factory settings – wipes all remotes, limits and sensors



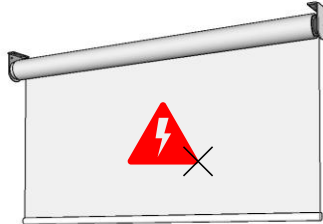
Begin with the power applied to the blind for at least 60 seconds



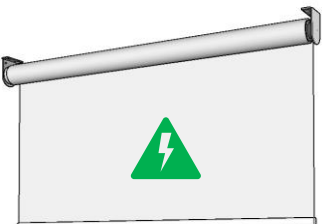
Turn off the power for 10 seconds



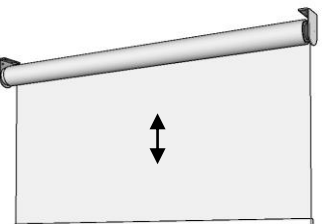
Turn on the power for 10 seconds




Turn off the power for 10 seconds



Turn on the power

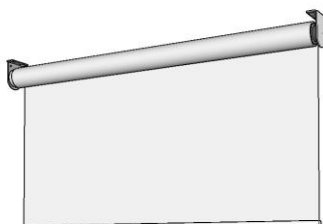


The blind will now travel for 5 seconds in one direction



Shunt x2

Press and **hold** the button on the back of the handset until the blind shunts **2 times** with a **pause** between the shunts



Factory reset complete