



Somfy Motors & Components

Effective May 5th 2025

DO IT RIGHT THE FIRST TIME OUT

Your customers will Thank You...



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The Benefits of Using McDonald Wholesale for Automated Roller Shade Specifying and Estimating

When it comes to automated roller shades, precision and efficiency are paramount. It is suggested that McDonald Wholesale assist you in selecting motors and components for every project.

Expertise and Precision

McDonald Wholesale possesses the expertise necessary to accurately specify the right motor and shade combination for your application. With our in-depth knowledge of the latest technologies and products, we can ensure that every detail is correctly addressed, avoiding costly mistakes and ensuring optimal performance.

Cost-Effective Solutions

You can be confident in our ability to provide accurate and competitive pricing. We understand the market dynamics and can offer solutions that fit your budget without compromising quality. This ensures you get the best value for your investment.

Streamlined Process

Automating window treatments can be complex and time-consuming. McDonald Wholesale streamlines this process, saving you time and reducing the hassle. Our efficient workflow ensures that projects move forward smoothly, allowing deadlines to be met.

Tailored Recommendations

Every project is unique, and McDonald Wholesale recognizes this. We provide tailored recommendations that consider your specific requirements and preferences. This personalized approach ensures that you receive the best possible solution for your situation.

Reliability and Trust

Our commitment to customer satisfaction means you can have confidence in our recommendations and estimates.

In conclusion, entrusting McDonald Wholesale with your automated projects is a wise decision. Our expertise, cost-effective solutions, streamlined processes, tailored recommendations, and reliability ensure that you receive the proper motor for every situation.

RTS & ZigBee Automation Control



Somfy Ysia 1 Channel Zigbee Remote



Somfy Ysia 5 Channel Zigbee Remote



Somfy ZigBee Smart Plug Type-B



Somfy TaHoma Switch Zigbee or RTS Interface



Somfy Situo 1 Channel RTS Pure Remote



Somfy Situo 5 Channel RTS Pure Remote



Somfy Telis 16 Channel RTS Pure Hand Held Remote



Surface Mount Wireless Wall Switches

DecoFlex WireFree™ Zigbee, White



Surface-mount

(2 Channel)

(4 Channel)

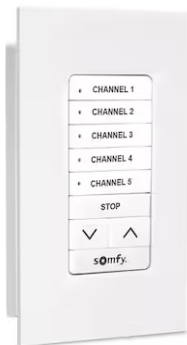
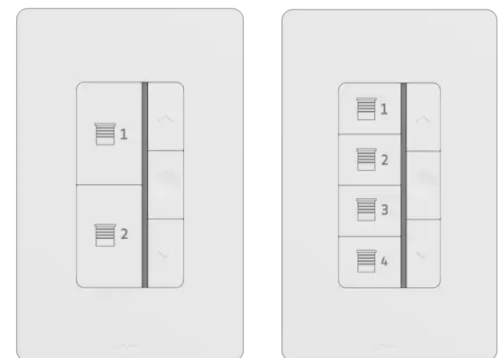
In-wall

(2 Channel)

(4 Channel)

Overview:

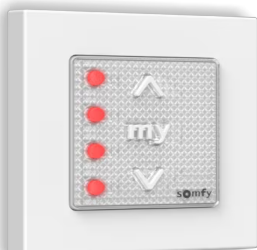
Discover the DecoFlex WireFree Zigbee keypad, the perfect blend of simplicity and elegance for controlling your Somfy-powered Zigbee products. Designed with the homeowner in mind, this versatile keypad offers both surface-mount and in-wall options to seamlessly integrate into home interiors. These keypads are ideal for indoor applications, ensuring reliable performance and stylish convenience at your fingertips.



DecoFlex WireFree™ Surface 5 Channel RTS



Somfy Smooove 1 RTS Single Channel Pure Wall Switch



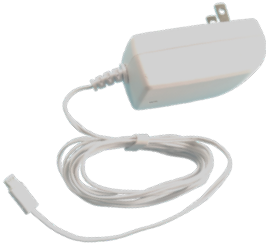
Somfy Smooove 4 RTS 4 Channel Pure Wall Switch



Power Options



External LI-ION Battery Pack



Charger with 6ft. Cable



8" Charger Extension Cable



94.5" Charger Extension Cable



8" Magnetic Charger Extension Cable



Magnetic Rigid Cable

Li-ion Zigbee Charger USB-C connector



USB-C Zigbee 20cm Extension Cable



Magnetic USB-C Rigid Cable



Magnetic USB-C Adaptor



USB-C Fast Charger

Somfy 12v DC & Somfy 24v DC Power Options



Somfy 24v DC 1.67 Amp Plug-in Wall Mount Transformer

Custom Cord up to 192"



Somfy 12v 2 AMP DC Plug-in Transformer w/9 ft cord

Custom Cord up to 192"



Somfy 12v or 24v Power Distribution Enclosure 5 Motors

Somfy 12v or 24v Power Distribution Enclosure 10 Motors

Somfy 12v or 24v Power Distribution Enclosure 15 Motors

Somfy 12v or 24v Power Distribution Enclosure 20 Motors

SONESSE® 28 WIREFREE RTS (External Battery)

Power Source Needed

- Rechargeable Battery (Pictured) (One per motor)
- 12 Volt Transformer (One per motor)



Main Functionalities

- Designed for Silence
- Soft start and soft stop
- Compatible with Situo® Variation functions
- Battery operated motor
- Information feedback (LED)
- Tilting capable
- Adjustable speed
- Built-in speed control

Technical Features

Nominal voltage	12 VDC
Power supply tolerances	9.5VDC - 16.5VDC
Cable	AWG22 - 2 wires
Protection against polarity reversal	Yes
Index protection rating	IP 20 - For indoor use only
Type of limit switch unit (LSU)	Electronic, encoder based
Capacity of the LSU	200 turns
Minimum distance between limits	1 turn
Capacity of memory	12 transmitters, interior sensors

Maximum distance between motor and power source	33 ft. (10 m) if used with Plug-in power supply 13.2 ft. (4 m) if used with battery source
Removable cable	No
Temperature working range	32°F to 140°F (0°C - 60°C)
Temperature storage range	-4°F - 140°F N34 (-20°C - 60°C)
Insulation class	Class III
Antenna	17.5 cm wire length, must not be cut or lengthened. For greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Specifications

Key specifications

Nominal torque	1.1Nm
Nominal speed	20±2 rpm *
Adjustable speed	10 to 28 rpm
Typical Sound Level	<49dB(A) **

Radio

Radio frequency	433.42 MHz
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Certifications



Performance

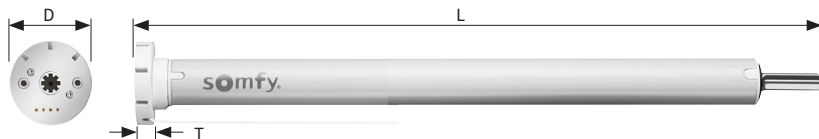
ESD reinforced immunity	Air: up to 17kV - Contact: up to 17kV
Autonomy	Recharge once per year (based on an average shade size and one cycle per day if using battery)

* At nominal torque & room temperature (25°C)

** Power Level: - measurements according to standards ISO 3741 in dB(A) ref 1pW, at nominal torque and nominal speed, between 20°C and 35°C
- value: highest typical value between Up direction and Down direction

Dimensions

Motor overall length	L	13.7 in. (348 mm)
Head thickness	T	.36 in. (9 mm)
Head diameter	D	1.73 in. (44 mm)



Limitations

For interior use only

Warning: idler end pin friction above 20% will impact the expected autonomy

Minimum roller tube diameter (ID): 1.05 in. (26.6 mm)

Maximum roller tube diameter (OD): 1.97 in. (50 mm)

Maximum static load to be applied on the motor head: 15 lb (7kg)



Sonesse® 28 WireFree Zigbee (External Battery)

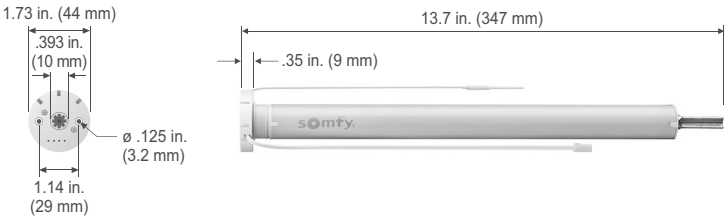
- Power Source Needed
- Rechargeable Battery (Pictured) (One per motor)
 - 12 Volt Transformer (One per motor)



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 20	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	15 cm wire length, must not be cut or lengthened. For greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	1.1 Nm
Nominal Speed	20 rpm
Adjustable Speed	10 to 28 by increment of 1 rpm
Radio Protocol	Zigbee 3.0 / Bluetooth 4.2
Radio Frequency	2.4 GHz
Battery Type	12V 2600mAh (External Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	< 4 to 5 Hrs.
Low Battery Indicator	LED (on motor head)

*Based on average shade size and one cycle per day using the rechargeable battery



Certifications



Sonesse® 28 WireFree RTS (Li-ion)



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 20	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	17.5cm wire length, must not be cut or lengthened. for greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	1.1 Nm
Nominal Speed	20 rpm
Adjustable Speed	10-28 by increment of 2 rpm
Radio Protocol	RTS
Radio Frequency	433.42 MHz
Battery Type	12V 2600mAh (built-in Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	4.5 Hrs.
Low Battery Indicator	LED (on motor head)

*Based on average shade size and one cycle per day



Certifications



Sonesse® 28 WireFree Zigbee (Li-ion)



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WireFree™



zigbee



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 20	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	15 cm wire length, must not be cut or lengthened. For greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	1.1 Nm
Nominal Speed	20 rpm
Adjustable Speed	10-28 by increment of 1 rpm
Radio Protocol	Zigbee 3.0 / Bluetooth 4.2
Radio Frequency	2.4 GHz
Battery Type	12V 2600mAh (built-in Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	< 4 to 5 Hrs.
Low Battery Indicator	LED (on motor head)

*Based on average shade size and one cycle per day



Certifications



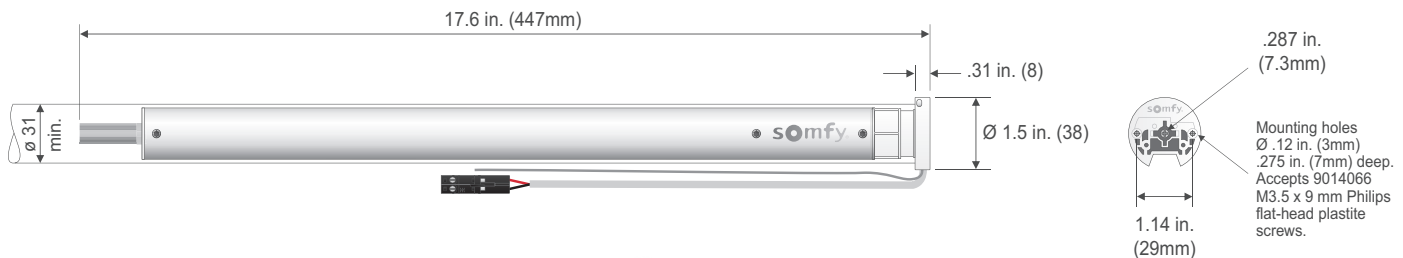


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

Technical Features

Voltage Supply	24V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 30	Insulation Class	Class III
Limit Switch Type	Electronic (RTS)	Antenna	7.5 in. (19cm) wire length, must not be cut or lengthened. For greatest RF range, antenna must be exposed.
Limit Switch Capacity	150 turns (limited to 6 minutes of rotation without stop)		

Dimensions



Specifications

Voltage	24V DC
Rated current	.625 A
Standby power	.2W
Torque	2 Nm
Default speed	25 rpm
Speed range	6 to 28 rpm (speed regulated and adjustable)
Radio frequency	433.42 MHz
Thermal protection	6 minutes
Sound Level	<42 dBA

Type of power cable

24V DC POWER CABLE

AWG24 – 1 Cable: 2 wire
(9.8 in. Weidmüller pigtail non-removable)



Maximum Power
Cable Length
(to guarantee
characteristics)

GAUGE	LENGTH
14 AWG	240 ft.
16 AWG	150 ft.
18 AWG	100 ft.



Sonesse® 30 24V DC Zigbee



Technical data

Supply Tolerance	21.6 — 26.4V DC
Running Time	6 minutes
Repeatability	+ 6°
Cable	AWG24 — 1 Cable: 2 wire (7.5 in. Weidmüller pigtail non-removable)
Index Protection Rating	IP30 (interior use only)
Limit Switch Unit	Electronic
Limit Switch Capacity	125 turns (limited to 6 minutes of rotation without stop)
Temperature Working Range	From 32°F to 140°F (0°C to 60°C)
Electric Insulation	Class III
Antenna	6.9 in. (17.5cm) wire length, must not be cut or lengthened. For greatest RF range, antenna must be exposed.
Sound Level*	<47 dB(A)*

*Noise Level: Power Level according to standards ISO3741 in dB(A) re1pW Typical Value at nominal torque without end product.



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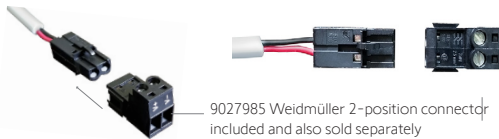


Dimensions



Cables

Weidmüller non-removable pigtail = 7.5 in. (190mm)



Optional Head Covers:



Optional Grey



Optional Black



White (supplied with motor)

Integrated Motor Plates (sold separately):

Sonesse 30 Motor Plate Rollease 360 R3-R8 10 x 1.8mm and screws	
Sonesse 30 Motor Plate Acmeda 12mm and screws	
Sonesse 30 Motor Plate Rollease Skyline and screws	
Sonesse 30 Motor Plate M3 x 6mm Philips flat-head plastite screw	

Performances

Nominal Torque	2Nm
Nominal Speed	25 rpm
Adjustable Speed	10 to 28 rpm (speed regulated and adjustable)
Radio Protocol	Zigbee 3.0 / Bluetooth 4.2
Radio Frequency	2.4 GHz
Nominal Voltage	24V DC
Rated Current	.625A
Standby Power	.2W

Certifications



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Sonesse® ULTRA 30 WireFree RTS (Li-ion)



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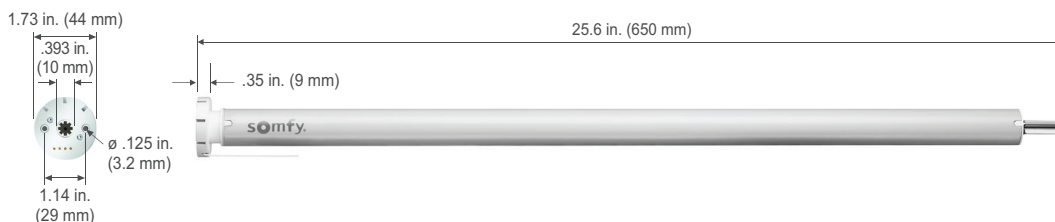
Offers control via
Radio Technology
Somfy® (RTS)



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 20	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	17.5cm wire length, must not be cut or lengthened. for greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	2 Nm
Nominal Speed	20 rpm
Adjustable Speed	10-28 by increment of 2 rpm
Radio Protocol	RTS
Radio Frequency	433.42 MHz
Battery Type	12V 2600mAh (built-in Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	4.5 Hrs.
Low Battery Indicator	LED (on motor head)

Certifications



*Based on average shade size and one cycle per day



Sonesse® ULTRA 30 WireFree Zigbee (Li-ion)



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WireFree™



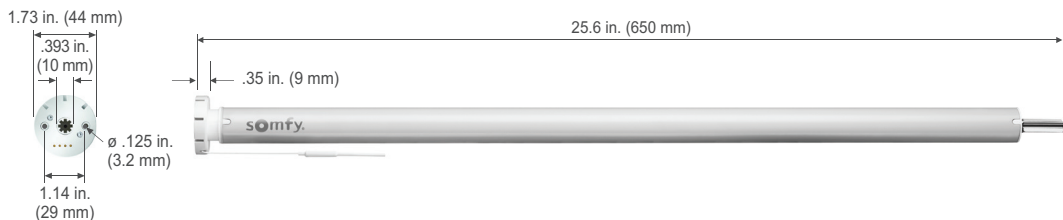
zigbee



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 20	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	15 cm wire length, must not be cut or lengthened. For greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	2 Nm
Nominal Speed	20 rpm
Adjustable Speed	10-28 by increment of 1 rpm
Radio Protocol	Zigbee 3.0 / Bluetooth 4.2
Radio Frequency	2.4 GHz
Battery Type	12V 2600mAh (built-in Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	< 4 to 5 Hrs.
Low Battery Indicator	LED (on motor head)

*Based on average shade size and one cycle per day



Certifications



Sonesse® 40 WireFree RTS (Li-ion)



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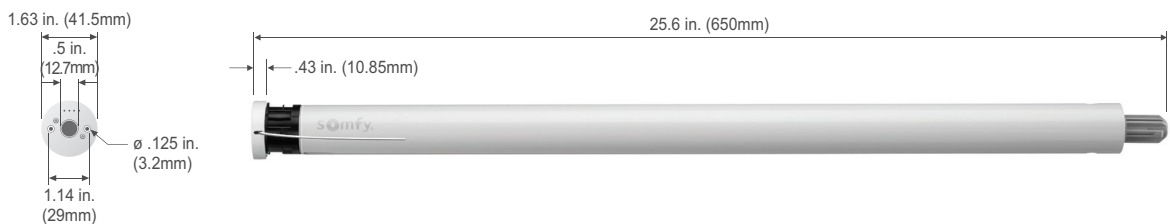
Offers control via
Radio Technology
Somfy® (RTS)



Technical Features

Voltage Supply	12V DC	Temperature Working Range	32°F to 140°F (0°C to 60°C)
Index Protection Rating (interior use only)	IP 30	Insulation Class	Class III
Limit Switch Type	Electronic	Antenna	12cm, wire length, must not be cut or lengthened. for greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions



Specifications

Nominal Torque	3 Nm
Nominal Speed	20 rpm
Adjustable Speed	10-28 by increment of 2 rpm
Radio Protocol	RTS
Radio Frequency	433.42 MHz
Battery Type	12V 4600mAh (built-in Lithium-ion)
Battery Autonomy	Only recharge once per year*
Charging Time	8 Hrs.
Low Battery Indicator	LED (on motor head)

* Based on one cycle (up and down) per day.



Certifications



Sonesse® 40 Zigbee (Li-ion) (USB-C)

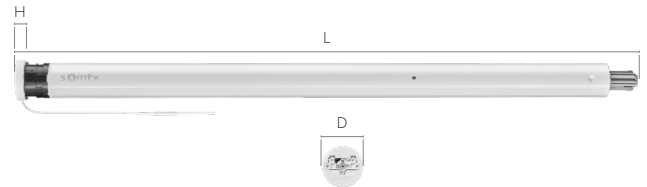


Technical data

Voltage Supply	12V DC
Index Protection Rating	IP 20 (for indoor use only)
Temperature Working Range	32°F to 140°F (0°C to 60°C)
Temperature Charging Range	32°F to 104°F (0°C to 40°C)
Temperature Storage Range	-4°F to 140°F (-20°C to 60°C)
Insulation Class	Class II
Antenna	6.9 in. (17.5cm) wire length, must not be cut or lengthened. For greatest RF range, must be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Dimensions

Motor Length (L)	25.6 in. (650mm)
Head Thickness (H)	.31 in. (8mm)
Head Diameter Ø (D)	1.57 in. (40mm)
Tube Min Ø (Int)	1.5 in. (38mm)



Performances

Nominal Torque	4 Nm
Nominal Speed	20 rpm
Adjustable Speed	10 to 28 by increment of 1 rpm
Sound Level	40 dB(A)*
Radio Protocol	Zigbee 3.0 / Bluetooth 4.2
Radio Frequency	2.4 GHz
Battery Type	12V 5000 mAh (built-in lithium-ion)
Battery Autonomy	Only recharge once per year**
Recharging Time	4 hours***
Low Battery Indicator	LED

*Sound level:

Power Level: according to standards ISO3741 in dB(A) ref 1pW typical value, at nominal torque and nominal speed, without application/end product.

**Based on average shade size and one cycle per day.

***Using Somfy USB-C Li-ion Charger (9028923).

Integrated Motor Plates (sold separately):

Sonesse 40 Motor Plate Rollease R16-24 15.9 x 1.8mm & screws	
Sonesse 40 Motor Plate Rollease RBGAL 16 x 3.2mm & screws	
Sonesse 30 Motor Plate Rollease 360 R3-R8 10 x 1.8mm and screws	
Sonesse 30 Motor Plate Acmeda 12mm and screws	
Sonesse 30 Motor Plate Rollease Skyline and screws	
Sonesse 30 Motor Plate M3 x 6mm Philips flat-head plastite screw	

Optional Head Covers:



White (supplied with motor)



Optional Black



Optional Grey

Certifications



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Sonesse® ULTRA 50 DC RTS

Square Head Motor

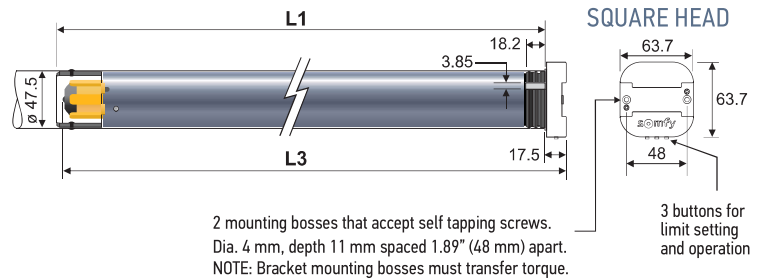


Radio Technology Somfy® (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

Technical Features

NEW Sleep Mode	New feature that allows for advanced programming and grouping.
Voltage Supply	24V DC
Index Protection Rating	IP 20 (interior use)
Limit Switch Type	Electronic
Limit Switch Capacity	38 Turns
Temperature Working Range	32°F to 140°F (0°C to 60°C) (interior use only)
Insulation Class	Class 3
Wiring	In accordance with NEC and local electrical codes.
Power Supply	Use only Somfy's power supplies to maintain UL listing requirements and guarantee motor's performance.

Dimensions



Dimensions

L1	30.7 in. (780 mm)
L3	31.5 in. (800 mm)
Data & Power Cable Length	10 in. (250 mm)



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Specifications

- * Minimum Torque:** Minimum application weight to ensure smooth operation.
- ** Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

Fabrication Recommendations:

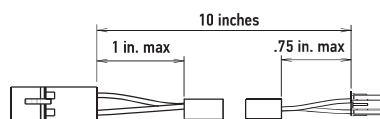
- Operational noise level is reduced when the motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor.
- Due to the variances of standard aluminum extrusion tolerances, it is recommended to screw the drive wheel & pin end to immobilize them and ensure quiet performance throughout the life of the product.
- Interior Tube Diameter (ID) > 47 mm must be respected.
- A motor crown adaptor between motor and end product tube is required to ensure concentric operation of the motor.
- 500 Series Drive Stop and Screw (9910004) is recommended to prevent noise and drive wheel separation from the motor shaft. This drive stop screw must be tightened with a torque ranging between 1.5Nm and 1.8Nm.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

Torque	4 Nm
* Minimum Torque	0.4 Nm
Nominal Voltage	24V DC
Rated Current	1.5A
Speed	10-25 Adjustable
Thermal Protection	5 minutes
** Sound Level	≤ 38 dBA



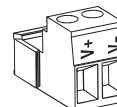
Power Pigtail Cable: (Included with every motor. Also available separately, part # 9020005).

Cable Detail View



Connector Markings Detail View

Font: Ariel
Height: 2.3 mm
Color: Black



Maximum Power Cable Length
(to guarantee characteristics)

GAUGE	LENGTH
14 AWG	240 ft.
16 AWG	150 ft.
18 AWG	100 ft.

SOMFY ZIGBEE

What's The Difference? Zigbee vs RTS

So what's the difference between Zigbee and Somfy's RTS range?

The glaring difference between the two is that Zigbee has two way wireless communication. This gives you access to a plethora of information when it comes to Tahoma integration.

Information like live feedback on battery status, and accurate positional data. Information that you can use to set up accurate scenes, or auto-remind you when your blinds need charging.

Zigbee also scores a point on RTS with wireless mesh connection. This means in essence that blinds can connect to each other, extending the reach of the Tahoma by relaying signals and commands to their fellow shades.

POSITIONAL FEEDBACK

Zigbee's main feature is its two way communication, both with the Tahoma and the Ysia remote.

This means that you can both see and set the exact position of your blinds. If you fancy your blinds closed to exactly 72%, you can do just that through the Tahoma. This positional feedback is also available on integrated smarthome systems, such as Control4.

Two-way feedback also comes in handy when it comes to the Ysia remote, which after sending a signal checks if it's been received.

BATTERY STATUS

Don't like the thought of finding out your blinds need charging only when the motors cut out?

Zigbee has you covered on that, its two-way communication means you can keep tabs on all of your blinds charge.

You can keep a wary eye on the levels on the Tahoma app, or you can even set an automatic reminder to show once your blinds hit a certain threshold for total peace of mind.

WIRELESS MESH NETWORK

For projects needing quality wireless control, Zigees wireless mesh technology is a game changer.

The concept of a wireless mesh is simple, instead of your controller sending a signal to each of your blinds individually, every Zigbee motor acts as a repeater.

This means that if a blind is out of range of your controller, the blinds that do receive the signal will send it onto the ones that are out of range.