

# INTELLIGENT SHADE MANAGEMENT

Somfy Digital Network
Reference Book 2023

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# Part 1

## Things you need to know about Somfy Digital Network



# WHY SOMFY DIGITAL NETWORK?



**Initial need was to offer Crestron, AMX and similar companies the possibility to control our motors in high end residential projects, hotels and conference rooms.**
The first products launched were ILT motors and SDN-RTS gateway. In a second step, Somfy decided to develop a complete Somfy proprietary solution with animeo IP.

## TODAY AND FOR THE FUTURE

The Somfy Digital Network (SDN) is the latest generation of bus-line controlled tubular motors and controls. SDN is on the RS485 network that can be used over a long distance and with a huge amount of products.



# SOMFY DIGITAL NETWORK: THE WIRED BI-DIRECTIONAL STANDARD FOR SOMFY

**SDN: Wired bi-directional technology allowing interconnection** with a wide range of third parties centralized building management and home automation systems (AMX, Crestron, Control 4, ...).

## Overview of SDN

**Intro to Somfy Digital Network**

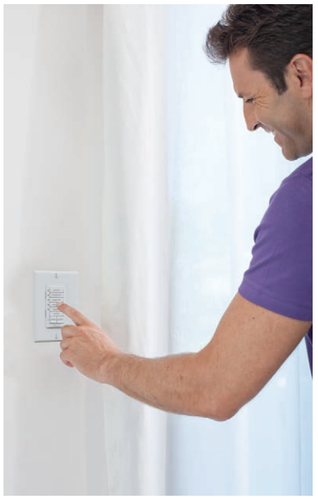
The Somfy Digital Network (SDN) is the latest generation of bus-line enabled Intelligent Tubular Motors and Smart Switch Controls. The SDN components are integrated into a cost effective system designed to operate a wide range of end products such as solar screens, projection screens and Venetian blinds over a standard RS-485 network.
The SDN system is a standard half duplex, bi-directional RS-485 network. Bi-directional communications makes it possible to receive feedback from each motor on the network. This allows the system to view the position and status of any motor on the network, in real time. Since the SDN network runs over standard network architecture, it is possible to establish a remote connection to the system from anywhere internet access is available. This defines a new level of commissioning and support services that can be offered for today's energy efficient Intelligent Building.

## Control Versatility

The recommended digital control devices for home or building projects operate using the Somfy Digital Network. The Somfy Digital Network could be used either as a stand-alone option or including animeo IP. Stand-alone SDN systems feature different control options than animeo IP systems.







## Compatibility

Somfy motors are offered in a wide range of sizes and window treatment types for retrofit or new construction projects. Some of the power supply options increase design flexibility when wiring hard to reach or inaccessible areas.

# BENEFITS OF SOMFY DIGITAL NETWORK

Energy Efficiency | Scalability & Flexibility | Compatibility | Comfort | Building Certification

## Natural Light Management

Automatically managing motorized window coverings reduces dependency on artificial light, allowing more natural light for increased visual comfort of occupants as well as energy savings.

### Extended Daylight Zone Automated Shades

A daylight zone is an area within a building that is expected to receive consistent daylight.



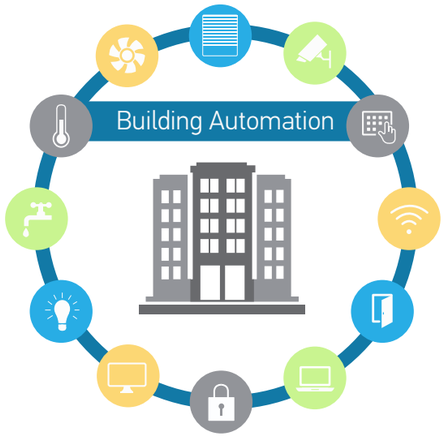
**Manual shades** are rarely adjusted thus reducing the daylight zone.

**Automated shades** increase the daylight zone, adjusting to the specific sky and weather conditions.

## Building Integration

Motor and control integration is a dynamic sector of the product offering by Somfy. Somfy motors offer a high torque ranges while operating with low sound levels which is a valuable combination for the shading market.

- Communicate with Building Management Systems
- Communicate to third-party automation systems through RS485, RS232 serial protocols and dry contact closure as well as energy savings.




## Dynamic Insulation™

Motorized window coverings are raised and lowered according to changes in outdoor weather conditions and indoor comfort needs based on input from sensors, pre-programmed settings, or local occupant controls.

### Summer strategy



Lower window coverings during the hottest part of the day to reduce heat gain.

### Winter strategy



Lowered window coverings prevent heat loss through windows during nighttime hours.



# FLEXIBILITY WITH MANY BUILDING TYPES

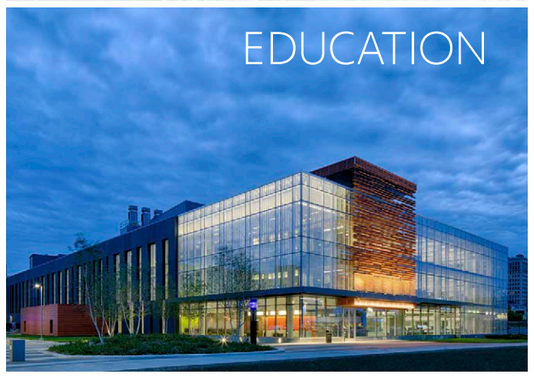
Somfy has experience designing dynamic control solutions based on the unique requirements of all building types including both new and retrofit. At Somfy, we're passionate about creating solutions that ensure the best possible working and living conditions for all types of buildings!

Education | Healthcare | Hospitality | Offices | Retail | Transportation | Leisure | Residential





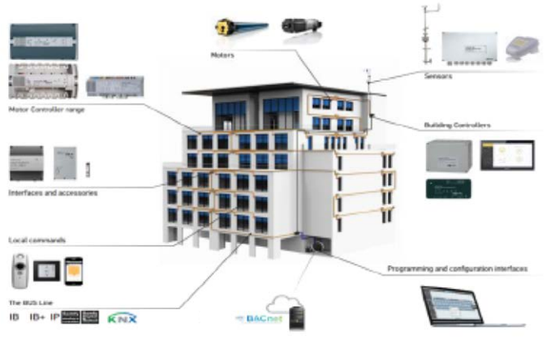








# BUILDING MANAGEMENT SOLUTION



# 5 Years WARRANTY

## Warranty

**Somfy provides a 5-year warranty on all motors.**

***When you choose Somfy motorization for your customers, 5-year you choose the confidence of a five-year warranty and a 50 year reputation for well designed, high quality reliability. You receive the customer service and support you'd expect from a world leader, focusing on a better way of living.***








# Part 2

## Use Cases

somfy®

# Third party integration with SDN

System Integration via SDN Protocol: Crestron, AMX, Control 4, Clipsal, etc.

Somfy Digital Network RS485



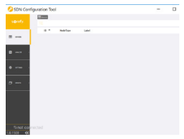
SDN Wiring guide



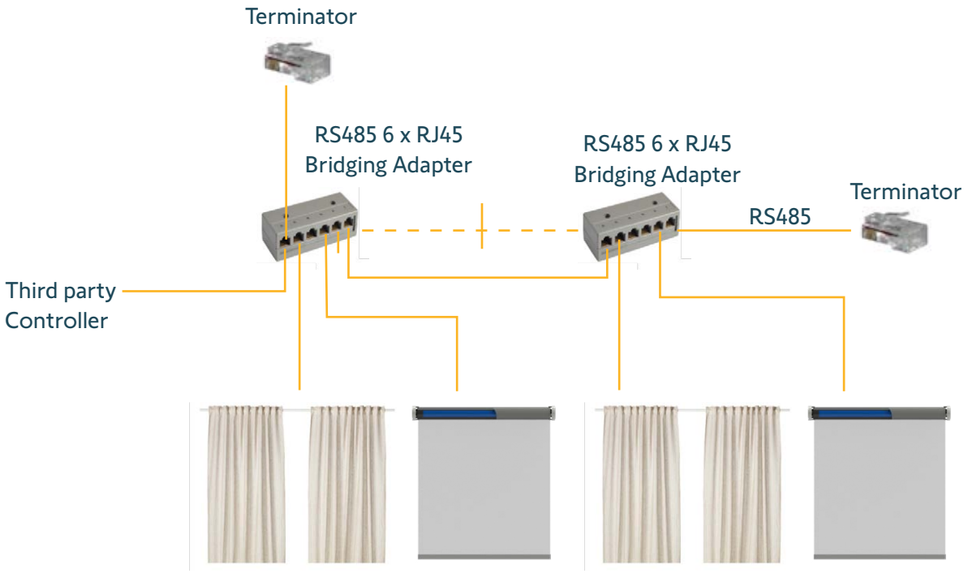
Integration guide



Frame Builder



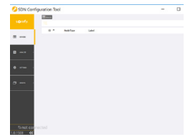
SDN Configuration tool



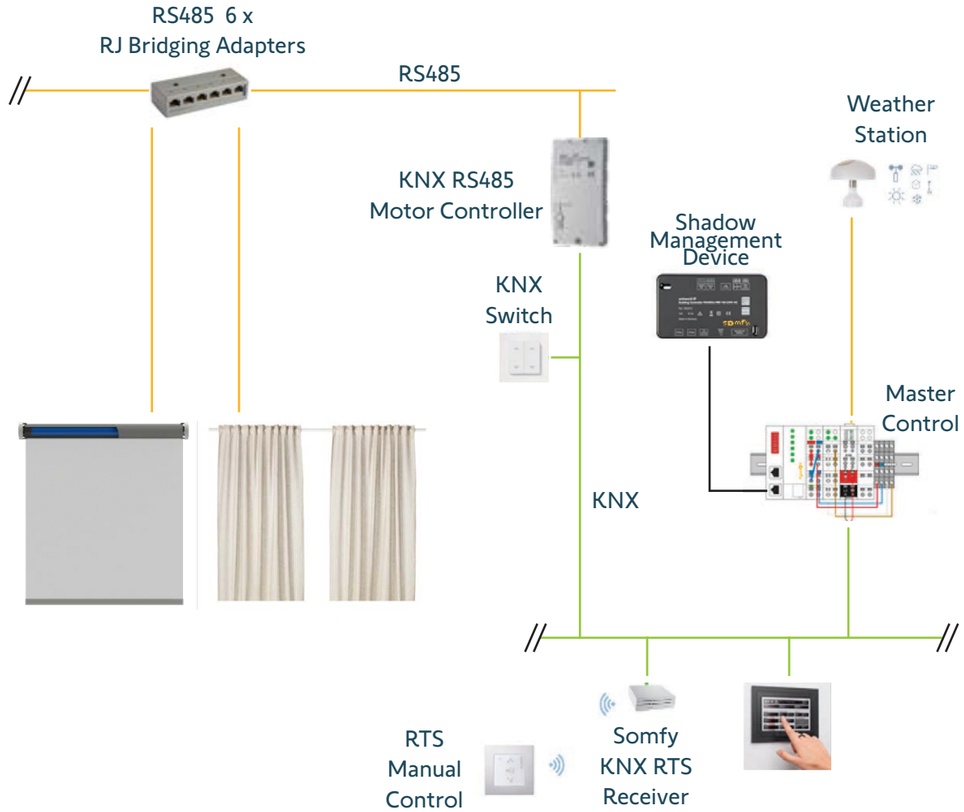

# Third party integration with KNX



SDN Wiring guide



SDN Configuration tool





# Part 3

## Products

# Part 3.1

# Motors

# Sonesse® 30 RS485



New and improved Somfy quiet DC motorization for small profiles shades, dedicated to interior applications.

## Compatible end-products



Roller shades | Pleated and Cellular shades | Roman shades | Venetian blinds | Layered shades

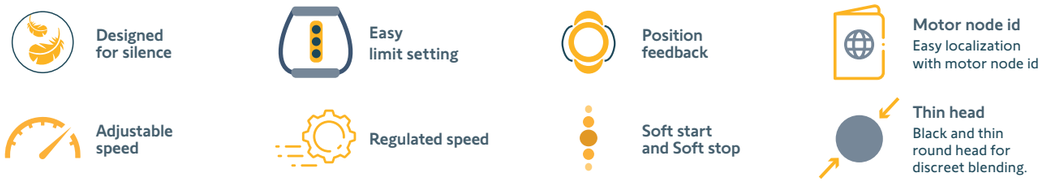
Somfy DESIGNED FOR SILENCE

Somfy +

→ Recommended to use with: Sonesse® 30 range of accessories (shared with WireFree range)

→ Recommended to set with: RS485 Setting Tool (ref. 9017142)

## Product main functionalities



- Designed for silence
- Easy limit setting
- Position feedback
- Motor node id — Easy localization with motor node id
- Adjustable speed
- Regulated speed
- Soft start and Soft stop
- Thin head — Black and thin round head for discreet blending.

## Benefits for professionals

### Easy integration
- Perfect blending in the interior
- Very thin round head to reduce light gap
- 3 head covers colors (white, black and grey) to adapt to the decor
- Suitable for tubes diameter 31 mm or more (internal diameter)
- Low voltage 24VDC power and easy wiring DC power sage and easy wiring

### Quick setting using RS485 setting tool
- Settings through the network
- Node ID discovery
- Adjustable speed from 6 to 28 rpm

### Take benefits of RS485
- Easy customization of groups from the controller
- Feedback on the network
- Up to 16 "my" positions

### Open Protocol
- RS485 is an open protocol available for any integrator
- Safe protocol

## Benefits for end users

### Comfort, Convenience and Privacy
- Convenient solution for glare reduction and privacy
- Superior quiet performance

### Take benefits of RS485 bi-directionality
- Move your blind to your wished position and be informed when it has been reached
- Get information status from the motor

### Discreet integration and home harmony
- Thin round head for perfect blending White head cover (Black and grey as an option)

### Smooth operations
- Soft stop and soft start
- Adjustable speed

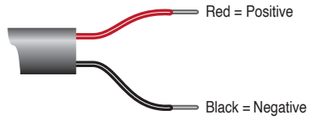


# Sonesse® 30 RS485

## Technical data

| | |
|---|---|
| Voltage supply | 24 V DC |
| Index protection rating | IP 30 |
| Limit switch unit | Electronic |
| Limit switch capacity | 125 turns |
| Temperature working range | 0°C to 60°C |
| Electric insulation | Class III |

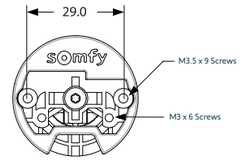
### Power cable




### RS485 cable



### Round head




## Performances

| | |
|---|---|
| Sound level (dBA)* | < 47 |
| Adjustable speed (rpm) | 10 to 28 (speed regulated and adjustable) |
| Torque (Nm) | 2 |
| Speed (rpm) | 25 |

*Power level at nominal torque and speed.

## Dimensions

| | |
|---|---|
| Motor length (L) | 479mm |
| Head thickness (H) | 8mm |
| Head diameter Ø (D) | 38mm |
| Tube min Ø (int) | 27.6mm |




## Certifications

5 YEARS WARRANTY

# Sonesse® 40 RS485



The digital offer of the acoustic standard for Interior Window Covering.
Offers flexibility with many building types (education, health care, hospitality, offices, retail, transportation, leisure, residential).

## Compatible end-products



Roller shades | Pleated and Cellular shades | Roman shades | Venetian blinds | Layered shades | Sheer horizontal shades | Woven wood

Somfy DESIGNED FOR SILENCE

**Somfy +**

→ Recommended to use with: Silent accesories

→ Recommended to set with: RS485 Setting Tool (ref. 9017142)

## Product main functionalities

- **Designed for silence**
- **Easy limit setting**
- **Position feedback**
- **Motor node id** — Easy localization with motor node id
- **Thin head** — Black and thin round head for discreet blending.

## Benefits **for professionals**

**Easy integration**
- Perfect blending in the interior
- White and very thin round head
- Reduced light gap
- 3 head covers (white, black and grey) to adapt to the decor
- Suitable for tubes diameter 37mm or more (internal diameter)

**Quick setting using RS485 setting tool**
- Settings through the network
- Node ID discovery

**Take benefits of RS485**
- Easy customization of groups from the controller
- Feedback on the network
- Up to 16 "my" positions

**Open protocol**
- RS485 is an open protocol available for any integrator
- Safe protocol

**A wide range**
- From 3 to 9 Nm
- Worldwide voltage

## Benefits **for end users**

**Comfort, Convenience and Privacy**
- Convenient solution for glare reduction and privacy
- Superior quiet performance

**Specific venetian application mode**
- Possibility to manage separately the tilt and lift position

**Take benefits of RS485 bi-directionality**
- Move your blind to your wished position and be informed when it has been reached
- Get information status from the motor

**Discreet integration and home harmony**
- Thin round head for perfect blending
- White head cover (Black and grey as an option)

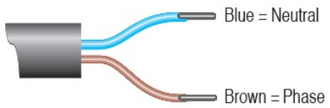


# Sonesse® 40 RS485

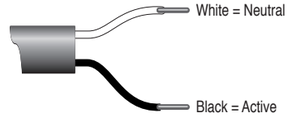
## Technical data

| | |
|---|---|
| Voltage supply | AC |
| Index protection rating | IP 31 |
| Limit switch unit | Electronic |
| Limit switch capacity | 250 turns |
| Temperature working range | 0°C to 60°C |
| Electric insulation | Class II |

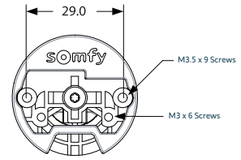
### 230 V / 220 V




### 120 V




### Round head




### RS485 cable



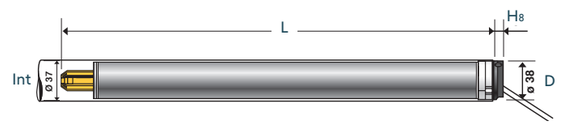
## Performances Ongoing project, specifications might slightly change

| Nominal voltage | 230 V / 50 Hz | | | 220 V / 60 Hz | | | 120 V / 60 Hz | | |
|---|---|---|---|---|---|---|---|---|---|
| Torque (Nm) | 3 | 6 | 9 | 3 | 6 | 9 | 4 | 6 | 9 |
| Speed (rpm) | 30 | 20 | 12 | 36 | 24 | 14 | 36 | 24 | 14 |
| Sound level (dBA)* | 42 | 45 | 40 | 42 | 44 | 40 | 42 | 44 | 40 |

*Power level at nominal torque and speed.

## Dimensions Ongoing project, specifications might slightly change

| Motor length (L) | 506 | 537 | 537 | - | - | - | 506 | 537 | 537 |
|---|---|---|---|---|---|---|---|---|---|
| Head thickness (H) | 8mm | | | | | | | | |
| Head diameter Ø (D) | 38mm | | | | | | | | |
| Tube min Ø (int) | 37mm | | | | | | | | |




## Certifications

5 YEARS WARRANTY

# LT 50 RS485



The proofed digital diameter 50 mm motor for blinds and screens.

**Somfy +**

**Take full benefits of RS485 bi-directionnality**

→ Recommended to set with: RS485 Setting Tool (ref. 9017142)

## Compatible end-products



Roller shades | Roman shades | Projection screens | Layered shades

## Product main functionalities



**Easy limit setting**



**Position feedback**



**Motor node id**
Easy localization with motor node id



**Star head**
6 possibilities to orientate the motor head.

## Benefits **for professionals**

**Easy integration**
- Removable power cable
- Removable data cable

**Easy Installation**
- Available in star head (6 possibilities to orientate the motor head)

**Quick setting using RS485 setting tool**
- Down and up end limits
- Motor rotation direction
- Readjustment of end limits
- Reset motor settings
- Up to 16 «my» position
- Node ID discovery

**Setting from a distance**
- Up and down end limits set by RS485 setting tool
- Visual feedback of the product to confirm any step of setting and programming

**Take benefits of RS485 feedback**
- Easy customization of the groups from the controler

**Access to RS485 product range for more benefits**
- Optimized system solution

**Open Protocol**
- RS485 is an open protocol available for any integrator

**A wide range**
- From 6 to 50 Nm (depending to areas)

## Benefits **for end users**

**Simple, effortless and comfort**
- Move your shades effortlessly

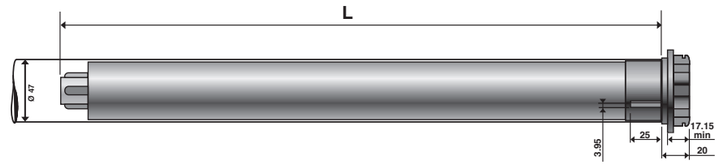
**Take benefits of RS485 bi-directionality**
- Move your blind to your wished position and be informed when it has been reached



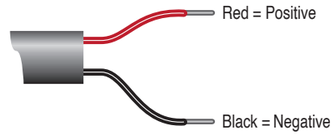
# LT 50 RS485

## Technical data

| | |
|---|---|
| Thermal time | 4 min for 230 V, 120 V, 220 V<br>5 min for 100 V |
| Supply | AC |
| Index protection rating | IP 44 |
| Limit switch unit | Electronic |
| Limit switch capacity | 300 turns for 230V, 120V, 220V<br>500 turns for 100 V |
| Temperature working range | -20°C to +60°C |
| Electric insulation | Class I |



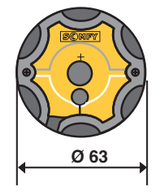

### 230 V / 220 V




### 120 V / 100 V




### Star head




## Performances

| Nominal voltage | 230 V / 50 Hz | | | | | | 120 V / 60 Hz | | 100 V / 50-60 Hz | | | 220 V / 60 Hz | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Torque (Nm) | 6 | 6 | 15 | 15 | 35 | 50 | 15 | 35 | 5 | 20 | 30 | 12 | 6 | 18 |
| Speed (rpm) | 32 | 17 | 17 | 32 | 17 | 12 | 38 | 20 | 32/38 | 17/20 | 17/20 | 38 | 20 | 20 |

## Dimensions

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L (mm) | 605 | 605 | 605 | 675 | 675 | 675 | 675 | 675 | 605 | 605 | 605 | - | 605 | - |

## Certifications

SASO COMPLIANT

# Sonesse 50 RS485



The digital offer of the new acoustic standard for Interior Window Covering.

## Compatible end-products



Roller shades | Roman shades | Pleated and Cellular shades | Venetian blinds* | Projection screens | Layered shades

* No management for lift function

## Product main functionalities

**Designed for silence**

**Easy limit setting**

**Position feedback**

**Motor node id**
Easy localization with motor node id

**Star head**
6 possibilities to orientate the motor head.

Somfy DESIGNED FOR SILENCE

**Somfy +**

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with:
Silent accessories

→ Recommended to set with:
RS485 Setting Tool (ref. 9017142)

## Benefits **for professionals**

**Easy integration**
- Suitable for tubes diameter 47 mm or more (internal diameter)
- Same integration process as LT 50 & Altus 50
- Removable power cable
- Removable data cable

**Easy Installation**
- Available in star head (6 possibilities to orientate the motor head)

**Quick setting using RS485 setting tool**
- Down and up end limits
- Motor rotation direction
- Readjustment of end limits
- Reset motor settings
- Up to 16 «my» position
- Node ID discovery

**Setting from a distance**
- Up and down end limits set by RS485 setting tool
- Visual feedback of the product to confirm any step of setting and programming

**Take benefits of RS485 feedback**
- Easy customization of the groups from the controler

**Access to RS485 product range for more benefits**
- Optimized system solution

**Open Protocol**
- RS485 is an open protocol available for any integrator

## Benefits **for end users**

**Simple, effortless and comfort**
- Quiet operation
- Move your shades effortlessly

**Take benefits of RS485 bi-directionality**
- Move your blind to your wished position and be informed when it has been reached

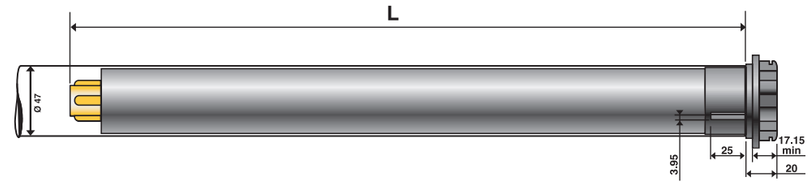




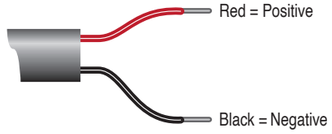


## Technical data

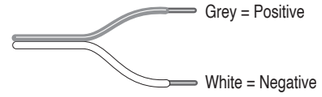
| | |
|---|---|
| Thermal time | 4 min |
| Supply | AC |
| Index protection rating | IP 44 |
| Limit switch unit | Electronic |
| Limit switch capacity | 300 turns |
| Temperature working range | -20°C to +60°C |
| Electric insulation | Class I |



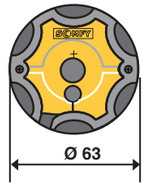

**230 V / 220 V**




**120 V / 100 V**




**Star head**




## Performances

| Nominal voltage | 230 V / 50 Hz | | | | 120 V / 60 Hz | | 220 V / 60 Hz | |
|---|---|---|---|---|---|---|---|---|
| Torque (Nm) | 6 | 6 | 15 | 10 | 6 | 10 | 5 | 10 |
| Speed (rpm) | 17 | 28 | 17 | 28 | 32 | 32 | 32 | 32 |

## Dimensions

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| L (mm) | 653 | 653 | 653 | 673 | 653 | 673 | 653 | 673 |

## Certifications

# Sonesse ULTRA 50 RS485 AC



The quietest and strongest motor on the market:
**ULTRA** quiet
**ULTRA** powerful
**ULTRA** flexible

## Compatible end-products



Roller shades



Pleated and Cellular shades

## Product main functionalities



**Designed for silence**



**Easy limit setting**



**Position feedback**



**Motor node id**
Easy localization with motor node id



**Star head**
6 possibilities to orientate the motor head.

Somfy DESIGNED FOR SILENCE

**Somfy +**

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with:
- Silent accessories
- Silent fabric
- Professional installation

→ Recommended to set with:
RS485 Setting Tool (ref. 9017142)

## Benefits **for professionals**

**Easy integration**
- Suitable for tubes diameter 47 mm or more (internal diameter)
- Removable power cable
- Removable data cable

**Easy Installation**
- Available in star head (6 possibilities to orientate the motor head)

**Quick setting using RS485 setting tool**
- Down and up end limits
- Motor rotation direction
- Readjustment of end limits
- Reset motor settings
- Up to 16 «my» position
- Node ID discovery

**Setting from a distance**
- Up and down end limits set by RS485 setting tool
- Visual feedback of the product to confirm any step of setting and programming

**Take benefits of RS485 feedback**
- Easy customization of the groups from the controler

**Access to RS485 product range for more benefits**
- Optimized system solution

**Open Protocol**
- RS485 is an open protocol available for any integrator

**Polyvalent offer**
- Unique motor to cover all application

## Benefits **for end users**

**Simple, effortless and comfort**
- Ultra Quiet operation
- Move your shades effortlessly

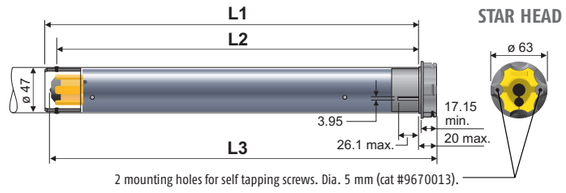
**Take benefits of RS485 bi-directionality**
- Move your blind to your wished position and be informed when it has been reached



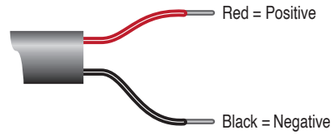
# Sonesse ULTRA 50 RS485 AC

## Technical data

| | |
|---|---|
| Thermal time | 4 min |
| Supply | AC |
| Index protection rating | IP 31 |
| Limit switch unit | Electronic |
| Limit switch capacity | 300 turns |
| Temperature working range | 0°C to +60°C |
| Electric insulation | Class I |




### 230 V / 220 V




### 120 V / 100 V




## Performances

| Nominal voltage | 230 V / 50 Hz | 120 V / 60 Hz | 220 V / 60 Hz |
|---|---|---|---|
| Torque (Nm) | 6 | 6 | 6 |
| Speed (rpm) | 20 | 24 | 24 |

## Dimensions

| L (mm) | 838 | 857 | 857 |
|---|---|---|---|

## Certifications

SASO COMPLIANT

# Sonesse ULTRA 50 RS485 DC



The quietest and strongest motor on the market:
**ULTRA** quiet
**ULTRA** powerful
**ULTRA** flexible

## Compatible end-products



Roller shades



Pleated and Cellular shades

## Product main functionalities



**Designed for silence**



**Easy limit setting**



**Position feedback**



**Square head**



**Motor node id**
Easy localization with motor node id

Somfy DESIGNED FOR SILENCE

**Somfy +**

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with:
- Silent accessories
- Silent fabric
- Professional installation

→ Recommended to set with:
RS485 Setting Tool (ref. 9017142)

## Benefits **for professionals**

**Easy integration**
- Suitable for tubes diameter 47 mm or more (internal diameter)
- Removable power cable
- Removable data cable

**Easy Installation**
- Available in square head

**Quick setting using RS485 setting tool**
- Down and up end limits
- Motor rotation direction
- Readjustment of end limits
- Reset motor settings
- Up to 16 «my» position
- Note ID discovery

**Easy setting**
- Up and down limits and my position can be set from a distance (RS485 setting tool)
- Through buttons on motor head
- Visual Feedback: LED on motor head

**Take benefits of RS485 feedback**
- Easy customization of the groups from the controler

**Access to RS485 product range for more benefits**
- Optimized system solution

**Open Protocol**
- RS485 is an open protocol available for any integrator

**Polyvalent offer**
- 4N/25 rpm, unique motor to cover all application

## Benefits **for end users**

**Simple, effortless and comfort**
- Ultra Quiet operation
- Move your shades effortlessly

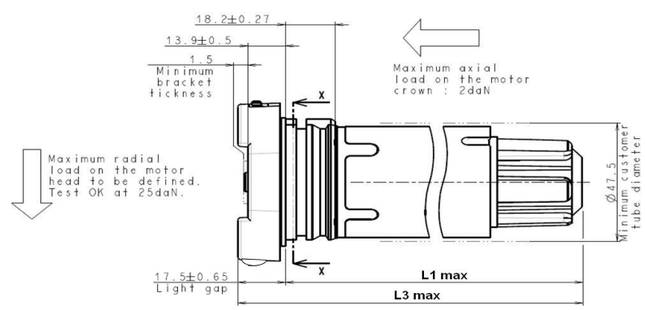
**Take benefits of RS485 bi-directionality**
- Move your blind to your wished position and be informed when it has been reached

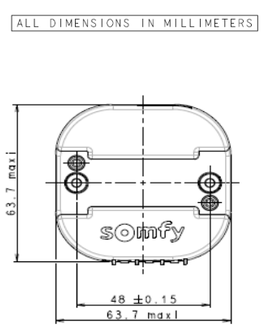


# Sonesse ULTRA 50 RS485 DC

## Technical data

| | |
|---|---|
| Thermal time | 5 min |
| Supply | 24 V DC |
| Index protection rating | IP 20 |
| Limit switch unit | Electronic |
| Limit switch capacity | 38 turns |
| Temperature working range | 0°C to +60°C |
| Electric insulation | Class III |




## Performances

| | |
|---|---|
| Nominal voltage | 24 V DC |
| Torque (Nm) | 4 |
| Speed (rpm) | 25 |

## Dimensions

| | |
|---|---|
| L (mm) | 780 |

## Certifications

CE

# Glydea Ultra RS485



A premium solution for high-end commercial/hospitality and residential properties: ultra-quiet, reliable and adaptable to future upgrade.
The RS485module is adaptable to the Glydea Ultra DCT or Glydea Ultra RTS and allows for bi-directional communication applications.

## Compatible end-products




## Product main functionalities

- Designed for silence
- Soft start and Soft stop
- Touch Motion
- Manual operation possible in case of power failure
- "my" function — One click to your favorite position.
- Automatic end limits
- Adjustable end limits
- Information feedback

Somfy DESIGNED FOR SILENCE

**Somfy +**

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with: Silent accessories

→ Recommended to set with: RS485 Setting Tool (ref. 9017142)

## Benefits for professionals

**Easy installation**
- No maintenance necessary after installation

**Easy re-setting**
- Programming button and LED on motor

**Reliability and services**
- Somfy quality & warranty

*Reduce SKU inventory: only RS485 module is required for Glydea Ultra DCT /RTS*

## Benefits for end users

**Daily convenience and comfort**
- Low noise level of the motorized track thanks to the "silent mode" functionality
- Reduce light gap thanks to the rail design and the swivel ceiling bracket
- Build-in manual override eliminates damage to the fabric

**Aesthetic integration**
- Discreet design allows management of cable
- Adjustable limits for customized curtain positioning

**Safety and reliability**
- Somfy quality and warranty



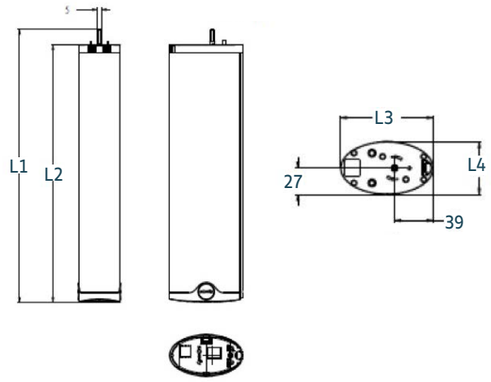
Glydea Ultra RS485

## Technical data

| | |
|---|---|
| Power supply | 90V to 250V ~ 50/60Hz |
| IP code | IP 30 |
| Working temperature | 0°C to 60°C |
| Insulation class | Class I |

## Dimensions

| | |
|---|---|
| L1 | 348mm |
| L2 | 328mm |
| L3 | 93mm |
| L4 | 53mm |




## Performances

| | |
|---|---|
| Nominal torque | 0.6 Nm / 1.0 Nm |
| Speed | 7.5 (silent mode) - 12.5 - 15 -17.5 - 20cm/s |
| Mode option | Silent mode / high speed mode |
| Sound level | 38 dBA in silent mode |
| Loading | Up to 35kg / Up to 60kg |
| Track length | Maximum 10m / 12m<br>Minimum bending radius 300mm |

## Certifications

ACT FOR GREEN

* Q4 2023

TRAINING FACE TO FACE

5 YEARS WARRANTY

# Part 3.2

# Controls

# animeo KNX

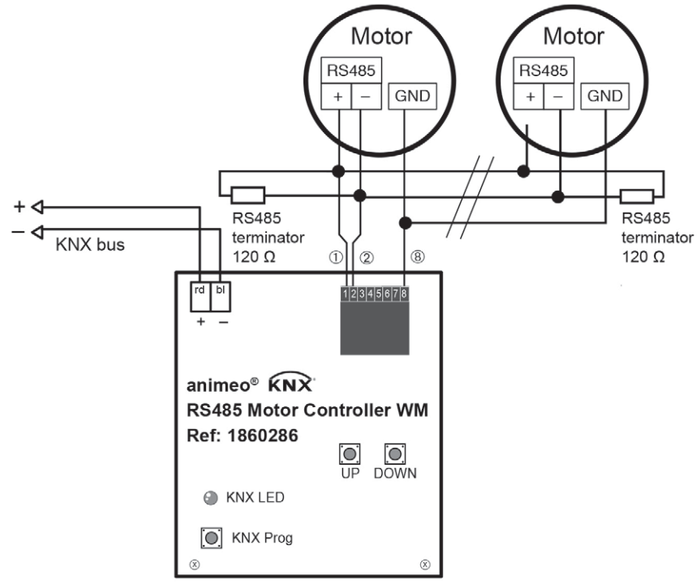
## RS485 Motor Controller WM




Ref. 1860286

**The KNX RS485 Motor Controller enables the controlling of up to 18 motors. The motors can be controlled either individually or by groups.**

**RS485 motors can be connected via bridging adapter. Different motor types can be used.**




## Product Features

- Flexible installation: suspended ceiling/raised floor, under-window or wall-mounted wiring channels.
- Quick installation and connection of the motor control-ler through:
  - Plug and play solution
  - Cable tension relief points to tighten cables to the housing of the product
  - Daisy chaining of several RS485 motors.
- With the Somfy SDN configuration software the motor settings can be done before configuring via ETS soft-ware.
- Perfect alignment of the blind thanks to the increment encoder technology of the RS485 motors.
- The exact position of the blind during move and when reaching the upper and lower end limits can be moni-tored.
- Using a one Byte telegram over the KNX, the blind can be moved to numerous intermediate positions.

### Wiring

| Connection | Cables | Twisted pairs | Max. distance |
|---|---|---|---|
| **RS485 bus** Modular Jack 8P4C (RJ45) | Min.: 4 x 2 x 0.5 mm/24 AWG | Required twisted pair shielded, Impedance 100 Ω (-10 Ω/+30 Ω), Recommended CAT5-FTP, Following Somfy RS485 guidelines | 200 m |
| **KNX bus** | 2 x 0.8 mm/20 AWG | Required, following KNX topology guidelines | - |

### Classification

**The Motor Controller is an electronically and manually-operated, independently-mounted control.**

- **Class A control function**
- **Type 1 action**
- **Pollution degree: 2**
- **Temperature of the ball hardness test: 75 ° C**
- **Type X attachment**
- **Method of attachment for non-detachable cords: screwless spring terminal**

## Characteristics

| KNX RS485 MOTOR CONTROLLER WM | **REF. 1860286** |
|---|---|
| Supply voltage from KNX bus | KNX voltage 21...32 V DC, SELV |
| Rated current consumption KNX | As per KNX guidelines, <= 12.5 mA |
| Supply voltage of local push buttons | SELV, 16 V DC |
| Terminals | RJ45 |
| Operating temperature | - 5 ° C to 50 ° C |
| Relative humidity | max. 85 % |
| Material of housing | PC-ABS |
| Housing dimensions (w x h x d) | 90 x 180 x 45 mm |
| Degree of protection | IP 20 |
| Protection class | III |
| Pollution degree | 2 |
| Conformity | www.somfy.com/ce |

# animeo KNX

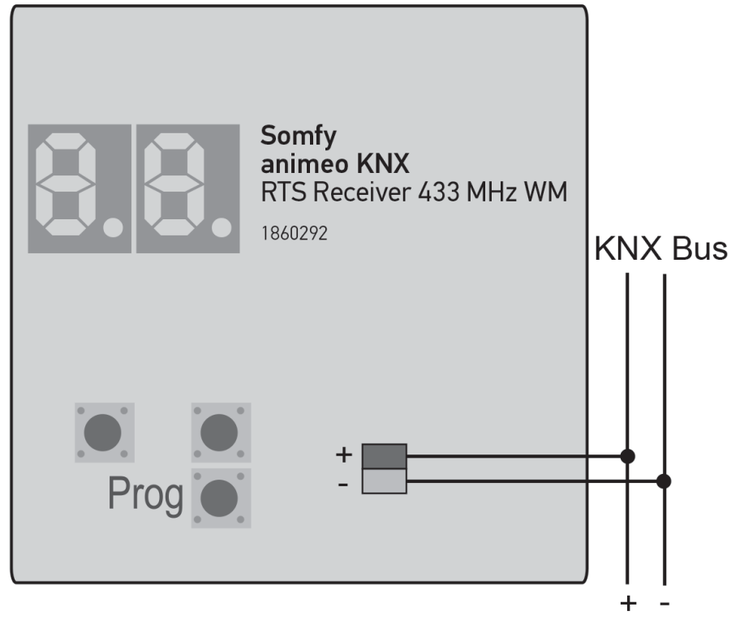
## RTS Receiver 433 MHz WM



Ref. 1860292

**Universal radio receiver to forward orders from Somfy RTS transmitters to the KNX bus for the integration with any application.**

**The receiver enables the controlling of shades, any switch function, lighting and dimming or HVAC. The receiver is simply powered over the KNX bus network.**




### Installation advantages

- Suitable for visible or non visible wall-mounting envi-ronments and on flush-mounted boxes.
- Somfy RTS transmitters can easily be trained in via a display independent of the ETS software.
- The device is powered over the KNX bus network.

### Functional advantages

- Enables control of all types of solar shadings and other applications (switch functions, lighting and dimming, HVAC) via the same remote control.
- Up to 10 universal radio inputs with max. 5 transmit-ters per input. The application per radio input is freely defineable.
- Enables the use of ergonomic user interfaces such as scroll wheels (Somfy Telis Modulis) to control Venetian blinds and light dimming.
- For configuration changes radio inputs can be activated via the ETS for teaching in of transmitters without the need to physically access the receiver.

### Wiring

| Connection | Cables | Twisted pairs | Max. distance |
|---|---|---|---|
| **KNX bus** | 2 x 0.8 mm/20 AWG | Required, following KNX topology guidelines | - |

### Compatible

**Compatible with the following Somfy RTS transmitters.**

- **Situo RTS Pure 433 MHz, Telis 1 RTS 433 MHz, Telis 4 RTS 433 MHz, Telis 1 Modulis RTS 433 MHz, Telis 4 Modulis RTS 433 MHz, Telis 6 Chronis RTS 433 MHz, Telis 16 RTS pure 433 MHz, Sunis Indoor Wirefree RTS 433 MHz, Thermosunis Indoor Wirefree RTS 433 MHz, Chronis RTS L 433 MHz, Chronis RTS Smart 433 MHz, Smoove 1 RTS 433 MHz, Smoove Origin RTS 433 MHz**

### Characteristics

| | **REF. 1860292** |
|---|---|
| Supply voltage from KNX bus | KNX voltage 21...30 V DC, SELV |
| Radio frequency | 433 MHz |
| Radio range | 20 m / 2 walls |
| Rated current consumption | As per KNX guidelines ≤ 12.5 mA |
| Operating temperature | - 5 ° C to 50 ° C |
| Relative humidity | max. 85 % |
| Material of housing | PA 6.6 GF 30 %/PC |
| Housing dimensions (w x h x d) | 81 x 81 x 25 mm |
| Weight | 60 g |
| Degree of protection | IP 20 |
| Protection class | III |
| Pollution degree | 2 |

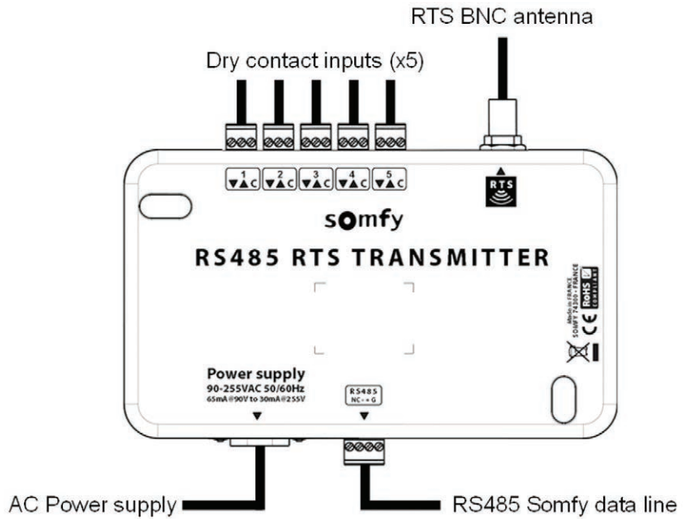
# RS485 RTS transmitter




Ref. 1810803 & 1810965

**The RS485 RTS Transmitter is a motor controller for RTS motors and receivers.**

**It converts RS485 Somfy commands, coming from home control systems, into RTS orders. Up to 16 RTS addresses: the interface can manage up to 16 groups of RTS products from an RS485 SOMFY network and/or from dry contact inputs (x5). Each group can control several motors/receivers.**




## Functional advantages

- Converts RS485 Somfy commands coming from home control systems into RTS orders
- Can control all the range of Somfy RTS products
- Can control up to 16 groups of products
- Can be controlled via RS485 or Dry contact inputs (x5)
  Each group can control several motors and receivers
- Up, Down and Stop functions
- Favorite position
- Sun function management
- Modulis compatibility

## Dimensions

175 x 100 x 56 mm (without antenna)

## Technical data

| | |
|---|---|
| Voltage Supply | 90V / 255V |
| Voltage frequency | 50Hz > 60Hz |
| Amps | 100 mA at 90V / 50 mA at 255V |
| Temperature working range | 0°C to 60°C |
| Protection rating | IP20 |
| Control | DCT / RS485 |
| RTS frequency | 433 MHz / 447 MHz |
| Connectors | RS485 4-pin 3.5 mm detachable terminal blocks<br>Dry contact up to 5 3-pin 3.5 mm detachable terminal blocks |
| External antenna | 1 BNC Connector |

## Certifications

# Part 3.3

# Power Supplies

## POWER SUPPLIES 24V DC



**POWER 2,7 DC 230V/24V**
- 230 VAC / 24 VDC 2,7 A group power supply
- Can power up to 6 motors
- Surface mounting

Ref. 1870156



**POWER 1.5 CABLE 230/24V**
- 230 VAC / 24 VDC 1,5 A group power supply
- Can power up to 3 motors
- Surface mounting
- Mains plug sold separately

Ref. 1870149



**ANIMEO DC POWER**
- 230 VAC / 24 VDC group power supply
- Can power up to 11 motors
- Surface mounting
- DIN rail compatible

Ref. 1860093

**S51 DC SWITCH**
- 5 positions whit DC rocker switch
- 2 momentary positions for pulse tilting - 2 fixed positions for lifting
- Surface mounting box sold separately #9660135

Ref. 1870061

**POWER SUPPLY ULTRA 24V DC US**

Ref. 1822209



**POWER SUPPLY ULTRA 24V DC EU**

Ref. 1822658

## 24V DC POWER SUPPLY - MOTOR COMPATIBILITY RANGE

| | | SONESSE 30 RS485 | SONESSE 50 RS485 |
|---|---|---|---|
| **Ref. 1870149** | POWER 1,5 DC W/CABLE UNIV/24 V | 1 | NC |
| **Ref. 1870156** | POWER 2,7 DC 230 V/24 V | 2 | |
| **Ref. 1870035** | GPS100 | 2 | NC |
| **Ref. 1860093** | ANIMEO DC POWER | 3 | 1 |
| **Ref. 1822209** | POWER SUPPLY ULTRA 24V DC US | NC | 1 |
| **Ref. 1822658** | POWER SUPPLY ULTRA 24V DC EU | NC | 1 |



# RS485 Power supply

**A component designed to power RS485 Somfy Digital Network devices via the RS485 network segment.**




Ref. 9019003

## Product Features

- Power supply with 2 x RJ45 connector to ease the wiring (in and out).
- Provides earth grounding and surge protection
- Helps protect against ESD events

## Characteristics

| | |
|---|---|
| Output voltage | 24 V DC @ 1.0 A |
| Input voltage | 90 V AC - 260 V AC |
| Input rated frequency | 47-63 Hz |
| Input current | 0.6 A @ 120 V AC 0.4 A @ 240 V AC |
| Input inrush current | < 60 A Peak @ 120 V AC < 120 A Peak @ 230 V AC |
| Efficiency | min. 80 % |
| Output line regulation | ± 1 % |
| Output load regulation | ± 3 % |
| Operating temperature | 0 ° C to 40 ° C |
| Storage temperature | - 30 ° C to + 70 ° C |
| Housing dimensions (w x h x d) | 132 x 200 x 72 mm |
| Material of housing | Glass, metal and CC-ABS polycarbonate |
| Weight | 135 g |
| Conformity | www.somfy.com/ce |

# Part 3.4

# Accessories

# Network accessories

## RS485 6X RJ45 Bridging Adaptor



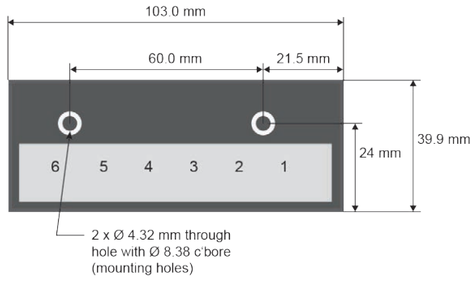
Ref. 9019004

**A component designed to ease the connection RS485 Somfy Digital Network devices on RS485 network segment.**

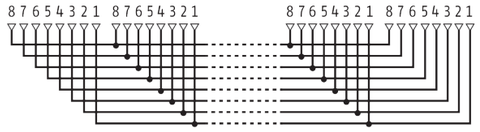
### Installation advantages

- 6 x RJ45 bridging adapter for the wiring of the RS485 Somfy Digital Network devices.
- Two holes for mounting to a wall or panel.

### Mounting holes



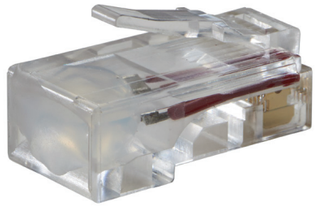

### Wiring diagram




### Characteristics

| | |
|---|---|
| Pollutant | Complies with RoHS |
| Materials | Housing: ABS, grey color<br>Contacts: gold plated, phosphor bronze |
| Dimension | 103 x 39,9 x 26,5 mm |
| Weight | 70 g |

## RS485 Terminator

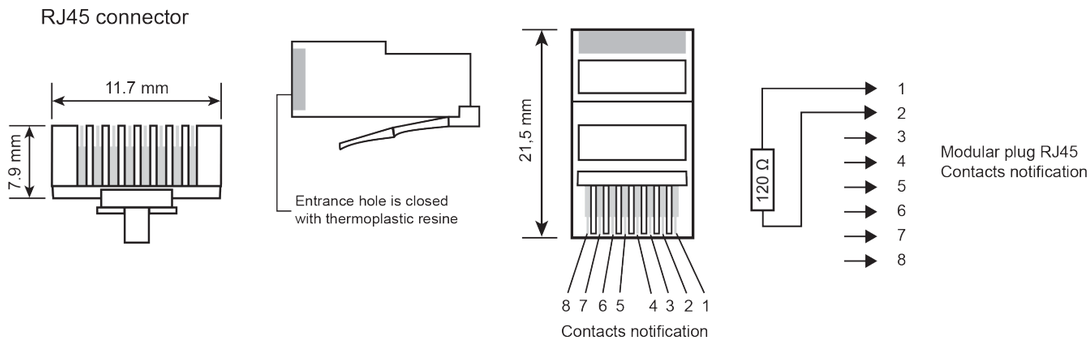


Ref. 9019005

**A RS485 component designed to terminate RS485 network segment.**

### Installation advantages

- Easy plug in RJ45




### Characteristics

| | |
|---|---|
| Resistor | 120 Ω, 0.3 W |
| Current rating | 1.5 A |
| Dielectic withstanding voltage | 1000 V RMS 50 Hz |
| Contact resistance | max. 20 mΩ |
| Insulation resistance | min. 500 MΩ |
| Output load regulation | +/- 5 % |
| Operating temperature | - 30 ° C to + 90 ° C |
| Storage temperature | - 30 ° C to + 90 ° C |
| Transport temperature | - 30 ° C to + 90 ° C |
| Housing material | Polycarbonate UL94V-2 Color: transparant |
| Contacts | Phosphor bronze alloy, gold plated over nickel |
| Pollutant | Comply witht RoHS |
| Weight | 2 g |

# Network accessories

## NETWORK DATA

**CAT 5 TEE**

Ref. 9014575



**5X RJ45 FEMALE/FEMALE ADAPTOR**

Ref. 9026095

**2 M CABLE RJ9 RJ45 (MALE-MALE)**

Ref. 9018490



**SDN CABLE FOR ULTRA DC TO SETTING TOOLS**

Ref. 9019873

**20 CM CABLE RJ9 RJ45 (MALE-MALE)**

Ref. 9018491



**HUB RS485 6XRJ45**

Ref. 9019004

**SDN CABLE FOR ULTRA DC**

Ref. 9019606 / 9020004



# Motor accessories

## SONESSE 30 RS485



**SONESSE 30 WF LOUVOLITE 40MM CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Louvolite 40 mm tube
- Includes motor plate, screws & washer

Ref. 9020675



**SONESSE 30 WF ROLLEASE 1.5''/38MM CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Rollease 38 mm tube
- Includes screw & washer

Ref. 9020674



**SONESSE 30 WF TO 400s ADAPTER KIT**

- Sonesse 30 WF adapter kit for 40 mm tubes
- Compatible with LS 40 accessories
- Includes screw & washer

Ref. 9020676



**SONESSE 30 WF ACMEDA SYS 45 HEAVY CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Acmeda System Heavy Duty 45 mm tube
- Includes 1 output shaft adapter, screw & washer

Ref. 9021036



**SONESSE 30 WF ACMEDA SYS 45 CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Acmeda System 45 mm tube
- Includes 1 output shaft adapter, screw & washer

Ref. 9021018



**SONESSE 30 WF ROLLEASE 2'' PROFILED TUBE CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Rollease 50 mm tube
- Includes screw & washer

Ref. 9021011



**SONESSE 30 WF HD QUANTUM CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Hunter Douglas Quantum tube
- Includes 1 output shaft adapter, screw & washer

Ref. 9021037



**SONESSE 30 WF HD 37MM CROWN & DRIVE**

- Sonesse 30 WF crown and drive for Hunter Douglas 37 mm tube
- Includes screw & washer

Ref. 9020699

**SONESSE 30 WF ROLLEASE/ ZMC 2 '' PROFILED TUBE**

- For SNABA market

Ref. 9021017

**SONESSE 30 WF ROLLEASE 1.5 MM SCREW & WASHER**

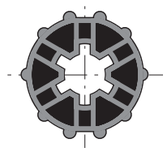
- For SNABA market

Ref. 9025222



**SONESSE 30 24V WHITE COVER**

Ref. 9027132



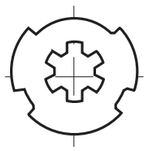
Ref. 9132142

**LS 40 WHEEL FOR ROUND TUBE**
- LS 40 wheel for round tube
- Tube diameter 40 mm



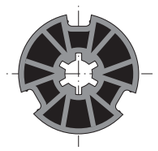
Ref. 9147544

**LS 40 WHEEL FOR D.40×1.5**
- LS 40 wheel
- For tube diameter 40×1,5mm



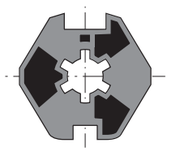
Ref. 9500322

**LS 40 WHEEL FOR TUBE DIAM 47 mm**
- LS 40 wheel
- Tube diameter 40×1,5 mm



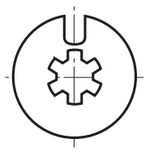
Ref. 9701208

**LS 40 WHEEL FOR TUBE 50 mm**
- LS 40 wheel
- Tube diameter 50 mm



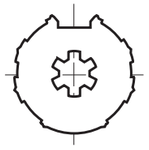
Ref. 9132138

**LS 40 WHEEL FOR TUBE**
- LS 40 hexagonal wheel
- For Madopron tube



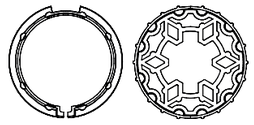
Ref. 9701210

**LS 40 WHEEL FOR TUBE WAREMA DIAM 50×1,5 mm**
- LS 40 wheel
- For Warema
- Tube diameter 50×1,5 mm



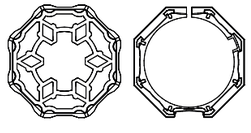
Ref. 9701213

**LS 40 WHEEL FOR TUBE 53 mm**
- LS 40 wheel
- For Nutrohr
- Tube diameter 53 mm



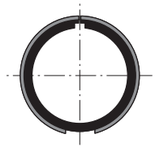
Ref. 9016654

**SONESSE 40 CROWN & DRIVE FOR 40×1,5 mm TUBE**
- Sonesse 40 crown & drive
- Designed for silence with acoustic rubber
- Tube diameter 40 mm



Ref. 9016655

**SONESSE 40 CROWN & DRIVE FOR 40 mm OCTOGONAL TUBE**
- Sonesse 40 crown & drive Designed for silence with acoustic rubber
- Octogonal tube diameter 40 mm

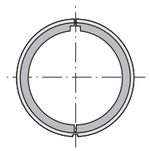


Ref. 9132143

**LS 40 CROWN FOR ROUND TUBE**
- LS 40 crown
- Round tube diameter 40×1 mm

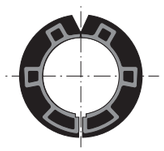






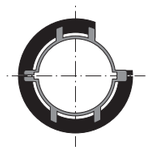
Ref. 9147330

**LS 40 CROWN TUBE D.40×1.5 mm**
- LS 40 crown
- Tube 40×1,5 mm



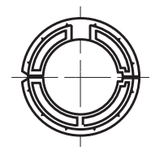
Ref. 9701207

**LS 40 CROWN FOR TUBE 50 mm**
- LS 40 crown
- Tube diameter 50 mm



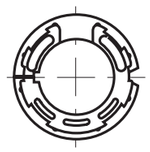
Ref. 9132139

**LS 40 CROWN FOR TUBE**
- LS 40 crown
- For Madopron
- Tube diameter 50 mm



Ref. 9701209

**LS 40 CROWN FOR TUBE WAREMA DIAM 50×1,5 mm**
- LS 40 crown
- For Warema
- Tube diameter 50×1,5 mm



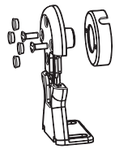
Ref. 9701206

**LS 40 CROWN DS 53×1,5 mm**
- LS 40 crown
- For Nutrohr
- Tube diameter 53×1,5 mm



Ref. 9013762

**DIAM 40 / 50 CROWN**
- Interface crown 40 / 50 mm



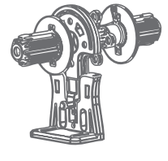
Ref. 9500683

**LS 40 BRACKET**



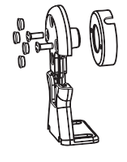
Ref. 9500669

**LS 40 / LT50 INTERFACE BRACKET**
- To switch from 40 mm round head to 50 mm star head



Ref. 9500687

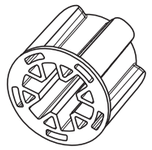
**LS 40 INTERMEDIATE BRACKET**
- For multibanding applications



Ref. 9500685

**LS 40 PLUG END BRACKET PIN D.8**
- LS 40 bracket plug end 0,8

## ALTUS 40 / SONESSE 40 RS485



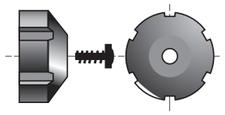
Ref. 9500330

**LS 40 / LT50 INTERFACE SHAFT USING LIMIT VULCAN 13/8**
- To switch for 40 mm output shaft to 50 mm output shaft



Ref. 9013763

**DIAM 40 / 50 ADAPTORS KIT**
- Stop wheel
- Interface crown 40 / 50 mm
- Interface shaft 40 / 50 mm



Ref. 9147894

**LS 40 STOP WHEEL**
- Sonesse 30 Crown & drive
- For Louvolite
- Tube diameter 40 mm

## COVER, SCREWS, MOTOR PLATES, WHEEL



Ref. 9026090

**DIAMETER 40 RS485 WHITE COVER**
- Qty: 20 pcs
- Color: white



Ref. 9026091

**DIAMETER 40 RS485 GREY COVER**
- Qty: 20pcs
- Color: grey



Ref. 9026092

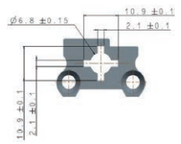
**DIAMETER 40 RS485 BLACK COVER**
- Qty: 20pcs
- Color: black

Ref. 9026093

**SCREW FOR DIAM 40 RS485 COVER & ADAPTATION PLATE**
- Qty: 20pcs
- Color: green

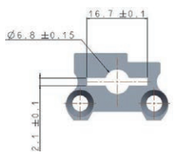
Ref. 9026094

**SCREWS FOR DIAM 40 RS485 NEW 19MM HOLES**
- Qty: 40pcs



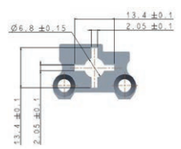

Ref. 9025996

**MOTOR PLATE 10x1.8MM**
- For actuators Up to 4 N.m




Ref. 9025997

**MOTOR PLATE ROLLEASE 580**
- For actuators Up to 4 N.m

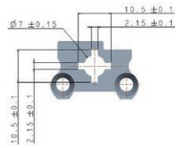



Ref. 9025999

**MOTOR PLATE ACMEDA 12**
- For actuators Up to 4 N.m

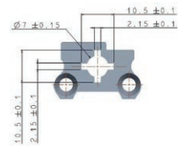


## COVER, SCREWS, MOTOR PLATES, WHEEL



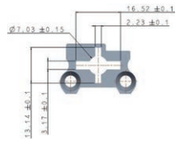

Ref. 9026000

**MOTOR PLATE ROLLEASE 16x3.2MM**
- For actuators Up to 4 N.m



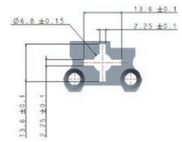

Ref. 9026001

**MOTOR PLATE MECHO PIN 10**
- For actuators Up to 4 N.m



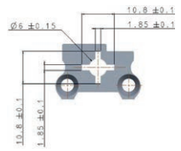

Ref. 9026002

**MOTOR PLATE MECHO PIN 16**
- For actuators Up to 9 N.m



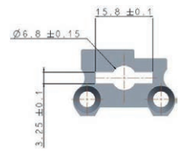

Ref. 9026004

**MOTOR PLATE VERTILUX**
- For actuators Up to 4 N.m




Ref. 9026005

**MOTOR PLATE SCREEN INNOVATION**
- For actuators Up to 4 N.m




Ref. 9026009

**MOTOR PLATE BENTHIN FUTURA L ROLLO**



Ref. 670037

**100 LS40 SCREWS**



Ref. 9704139

**ABS WHEEL 40 LEFT**
- For zip screen applications



Ref. 9704138

**ABS WHEEL 40 RIGHT**
- For zip screen applications



Ref. 9147334

**PLAQUETTE LOW STUD SQUARE 10x10**



Ref. 9014574

**KIT CROWN AND DRIVE HD50 (OLD & NEW) FOR LS40**

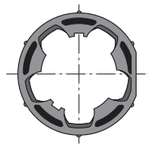
## WF ACCESSORIES – COMPATIBILITY MATRIX

✔ Compatible ✗ Not compatible - Not tested

| | Sonesse 30 24VDC | Sonesse 40 RS485 |
|---|---|---|
| **Covers** | | |
| Diameter 40 RS485 White cover x20 | ✗ | ✔ |
| Diameter 40 RS485 Grey cover x20 | ✗ | ✔ |
| Diameter 40 RS485 Black cover x20 | ✗ | ✔ |
| **Screws** | | |
| Screws for Ø40 RS485 cover & adaptation plate x20 | ✗ | ✔ |
| Screws for Ø40 RS485 new 29mm holes x40 | ✗ | ✔ |
| **Motor plates** | | |
| Motor plate 10x1.8mm | ✔ | ✔ |
| Motor plate Rollease 580 | ✗ | ✔ |
| Moor plate Acmeda 12 | ✔ | ✔ |
| Motor plate Rollease 16x3.2mm | ✗ | ✔ |
| Motor plate Mecho pin 10 | ✔ | ✔ |
| Motor plate Mecho pin 16 | ✗ | ✔ |
| Motor plate Rollease Skyline | ✔ | ✗ |
| Motor plate Vertilux | ✔ | ✔ |
| Motor plate Screen Innovation | ✔ | ✔ |
| Motor plate Benthin Futura L Rollo | ✗ | ✔ |
| **Connection** | | |
| RJ45 female/female adaptor x5 | ✔ | ✔ |

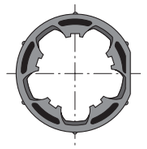


## LT50 RS485 /SONESSE 50 RS485 / SONESSE ULTRA 50 RS485



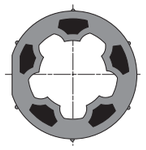
Ref. 9410414

**LT50 WHEEL 50×1.5 HARD CLIP**
- LT50 wheel
- Tube diameter 50×1,5mm
- Hard clip



Ref. 9410415

**LT50 WHEEL 50×1,5 WEAK CLIP LIMIT 50NM**
- LT50 wheel
- Tube diameter 50×1,5mm
- Soft clip



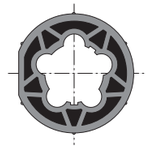
Ref. 9751013

**LT50 WHEEL FOR TUBE D60**
- LT50 wheel
- Tube diameter 60×1,5mm
- Hard clip



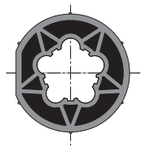
Ref. 9206041

**LT50 WHEEL FOR TUBE D63 ×1,5 SOFT CLIP**
- LT50 wheel
- Tube diameter 63×1,5mm
- Soft clip



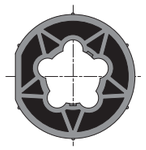
Ref. 9206019

**LT DRIVE WHEEL DIAM 63MM**
- Drive wheel for LT
- Tube diameter 63mm
- Hard clip



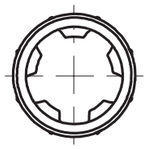
Ref. 9206026

**LT50 WHEEL FOR TUBE D70 ×1.5 SOFT CLIP**
- LT50 wheel
- Tube diameter 70mm
- Soft clip



Ref. 9420313

**LT50 WHEEL FOR TUBE D70 ×2**
- LT50
- Tube 70mm



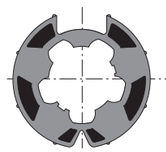
Ref. 9707125

**LT50 WHEEL TUBE WAREMA D50**
- LT50 wheel
- For Warema
- Tube diameter 50mm



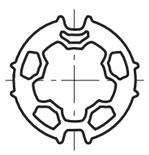
Ref. 9410401

**LT50 WHEEL TUBE 60 GRIESSER**
- LT50 wheel
- For Griesser 60 soloscreen
- Tube diameter 60mm



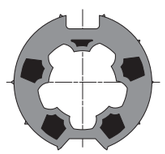
Ref. 9410302

**LT50 WHEEL FOR TUBE D.62 DEPRAT**
- LT50 wheel
- For Deprat F2000
- Tube diameter 62mm



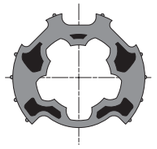
Ref. 9751006

**LT50 WHEEL FOR TUBE D.62**
- LT50 wheel
- Tube diameter 62mm
- Hard clip



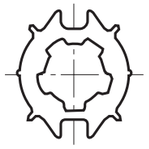
Ref. 9751014

**LT50 WHEEL FOR TUBE D.63 BK STO REN**
- LT50 wheel
- For BK STO BEN
- Tube diameter 63mm
- Hard clip



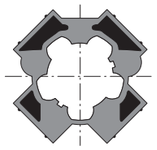
Ref. 9751002

**LT50 WHEEL FOR TUBE D.65 MADOPRON, SUNMASTER**
- LT50 wheel
- For Madopron, Sunmaster
- Tube diameter 65mm
- Hard clip



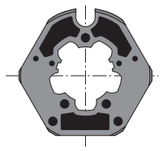
Ref. 9751015

**LT50 WHEEL FOR PERMA TUBES**
- LT50 wheel
- For Perma Tubes



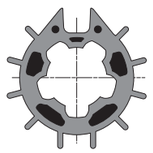
Ref. 9410304

**LT50 WHEEL TUBE OCTO 60**
- LT50 wheel
- Octogonal tube diameter 60mm
- Hard clip



Ref. 9410406

**LT50 WHEEL FOR TUBE D.70 GRIESSER**
- LT50 wheel for tube diameter 70
- Hard clip



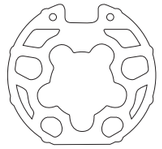
Ref. 9751005

**LT50 WHEEL FOR TUBE D.70 DOHN WIH GUT IMBAC D.71 ×2**
- LT50 wheel
- Tube diameter 71×2mm
- Hard clip



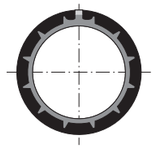
Ref. 9751009

**LT50 WHEEL FOR TUBE D.74**
- LT50 wheel
- Tube diameter 74mm
- Hard clip



Ref. 9761011

**LT50 WHEEL FOR TUBE D.71 PERMA**
- LT50 wheel
- For Perma
- Tube diameter 71mm
- Hard clip



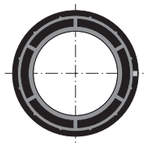
Ref. 9707033

**LT50 CROWN FOR TUBE D.60**
- LT50 crown
- Tube diameter 60mm



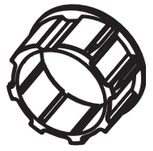
Ref. 9707029

**LT50 CROWN DS 63×1.5**
- LT50 crown
- Tube diameter 63mm



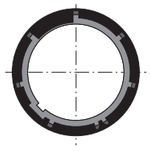
Ref. 9707031

**LT50 CROWN FOR TUBE D.70**
- LT50 crown
- Tube diameter 70mm



Ref. 9410402

**LT50 CROWN TUBE 60 GRIESSER**
- LT50 crown
- For Griesser 60 soloscreen
- Tube diameter 60mm

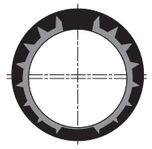


Ref. 9410300

**LT50 CROWN FOR TUBE D.62 F2000**
- LT50 crown
- Tube diameter 62mm







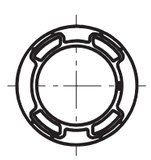
Ref. 9707028

**LT50 CROWN TUBE E-DS 63**
- LT50 crown
- Tube diameter 63mm



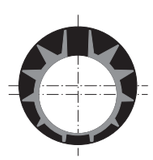
Ref. 9707030

**LT50 CROWN FOR TUBE MP 65**
- LT50 crown
- Tube diameter 65mm



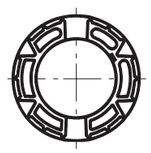
Ref. 9707036

**LT50 CROWN FOR PERMA 68 / 70 / 71**
- LT50 crown
- For Perma
- Tube diameter 68mm, 70mm, 71mm



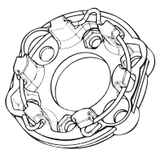
Ref. 9707034

**LT50 CROWN FOR DOHNER 70**
- LT50 crown
- For Dohner
- Tube 70mm



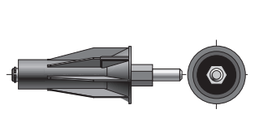
Ref. 9707037

**LT50 CROWN FOR DOHNER D.74**
- LT50 crown
- For Dohner
- Tube diameter 74mm



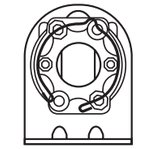
Ref. 9002516

**UNIVERSAL BRACKET WITH CLIP**
- Max torque: 85Nm
- White laquered
- 2 holes Ø 6mm - 48mm entraxe
- 2 holes Ø 8mm - 60mm entraxe
- Delivered without screws



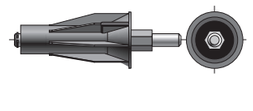
Ref. 9420800

**ADJUSTABLE PLUG END PIN D10**
- Adjustable Plug end
- Max: LT50 50Nm
- Max with FTS system: FTS50 25/17



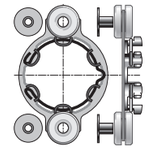
Ref. 9002550

**LT50 ADJUSTABLE AWNING BRACKET**
- Max: 25Nm



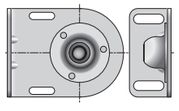
Ref. 9420801

**ADJUSTABLE PLUG END PIN D12**
- Adjustable Plug end
- Max/ LT50 50Nm
- Max with FTS system: FTS50 25/17



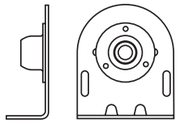
Ref. 9410739

**VIBRATIO FREE LT50 BRAC. 90MM**
- Max: 40Nm
- Fixing entraxe: 90mm
- It has to be sold with some advices concerning the installation (i.e. treatment of the end product and its fixation)



Ref. 9410633

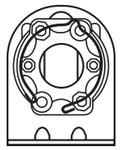
**ZINCKED PLUG END BRACK. PIN 12**
- For pin Ø12mm
- Max: LT50 50Nm



Ref. 9410634

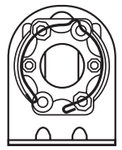
**LACQUERED PLUG END BRACKET FOR PIN 12**
- For pin Ø12mm
- Max: LT50 50Nm

## LT50 RS485 /SONESSE 50 RS485 / SONESSE ULTRA 50 RS485



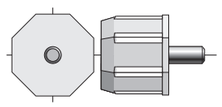
Ref. 941651

**ZINKED LT50 BRACKET**



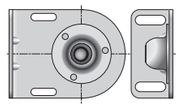
Ref. 9410652

**WHITE LQ LT50 BRACKET**



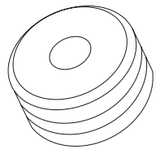
Ref. 9137018

**OCTOGONAL PLUG END FOR DEPRAT**
- For pin Ø 8mm
- Max: 8Nm



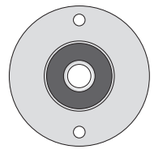
Ref. 9410635

**ZINCKED PLUG END BRACK. PIN 10**
- For pin Ø12mm
- Max: LT50 50Nm



Ref. 9410735

**ANTIVIRATION WASHER**
- Max torque: 85Nm to be used with ref. 9 127 808



Ref. 9701310

**VIBRATION FREE PLUG END BRACKET**
- Max: 8Nm



Ref. 9013592

**TELESCOPIC END CAP D10 FOR SONESSE 50**
- Max: 4Nm
- Rn Ø10mm



Ref. 9013593

**TELESCOPIC END CAP D12 FOR SONESSE 50**
- Max: 4Nm
- Rn Ø12mm



Ref. 9018455

**SONESSE 50 WHEEL SOFT CLIP TUBE 50 × 1.5MM**
- Max: 15Nm
- Soft clip
- For tube 50 x 1,5mm



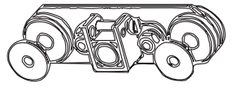
Ref. 9016630

**SONESSE 50 WHEEL HARD CLIP TUBE 50 × 1.5MM**
- Max: 15Nm
- Hard clip
- For tube 50 x 1,5mm



Ref. 9016628

**SONESSE 50 TELESCOPIC END CAP D10**
- Max: 15Nm
- Rn Ø10mm
- For tube 50 x 1,5mm



Ref. 9410740

**VIBRA. FREE PLU END BRAC. 90MM**
- Max: LT50 40Nm
- Fixing entraxe: 90mm
- Compatible with the plug ends with a pin Ø 12
- It has to be sold with some advices concerning the installation (i.e. treatment of the end product and its fixation)



## LT50 RS485 /SONESSE 50 RS485 / SONESSE ULTRA 50 RS485



Ref. 9018228

**SONESSE 50 TELESCOPIC END CAP D12**
- Max: 15Nm
- Rn Ø12mm
- For tube 50 x 1,5mm



Ref : 9019716

**SONESSE 50 UQ UNIVERSAL END CAP**
- 10mm shaft



Ref. 9019717

**SONESSE 50 UQ UNIVERSAL END CAP**
- 12mm shaft



Ref. 9705415

**ABS WHEEL 50 LEFT**
- For zip screen applications



Ref. 9705414

**ABS WHEEL 50 RIGHT**
- For zip screen applications

# Curtain
# Heavy duty accessories

## COMPONENTS



Ref. 1780897

**PULLEY GA**
- Pulley assembly to put opposite the motor side
- Color: White
- Does not come with hooks
- Unit weight: 82 g



Ref. 1782318

**SMALL PULLEY GA**
- Pulley assembly to put opposite the motor side
- Color: White
- Does not come with hooks



Ref. 1780945

**DRIVE PULLEY GA**
- Pulley assembly to use on the motor side
- Color: White
- Does not come with hooks z Unit weight: 73 g



Ref. 1781379

**RAIL 5m BY 4 GA**
- 5 m long track aluminium profile z Color: White
- Delivered in a box with 4 rails



Ref. 9019943

**RAIL 16FT BY 6 GA**
- 16 ft long track aluminium
- profile
- Color: White
- Delivered in a box with 6 rails



Ref. 1782084

**10 mm PRELUB BELT 55 m ROLL GA**
- Roll of 55 m reel, 10 mm black pre-lubed belt
- Approx. 2 times the length of the track is necessary
- Can be used on all track configurations & shape including ripple curtain to the maximum weight capacity of somfy curtain motors



Ref. 1782562

**NON PAINTED RAIL 5.8m BY 4 GA**
- Must be painted before used,
- (painted guideline to be followed)
- 5 m long track aluminium profile
- Color: White
- Delivered in a box with 4 rails
- Only ship by truck & boat



Ref. 1781344

**HEAVY DUTY MASTER CARRIER GA**
- Heavy Duty & quiet one piece non articulating master carrier
- Can be used on all track configurations & shape including ripple curtain to the mawimum weight capacity of somfy curtain motors



## CLASSIC ACCESSORIES



Ref. 1780892

**ROTATING EYE RUNNER GA**
- Runner mounted on wheels with rotating eyelet
- Can not be used with ripplefold
- Width: 14 mm / Max load: 1.5 kg
- Qty: typical 10 per meter
- Color: White
- Unit weight: 3.2 g



Ref. 1781415

**HIGHT PERFORMANCE ROTATING EYE RUNNER**
- Runner mounted on wheels with rotating eylet
- Can not be used with ripplefold
- Wheel shape make it quieter
- Qty: typical 10 per meter
- Color: White
- Unit weight: 3.2 g



Ref. 1781416

**HEAVY DUTY STRAIGHT ARM GA**
- Stainless steel arm to be optionally screwed on the heavy duty master carrier of two way tracks. Allows to hang curtain with pleates with 3 pitch
- Unit weight: 29 g



Ref. 1781417

**HEAVY DUTY OVERLAP ARM KIT GA**
- Stainless steel overlap arm with roller wheel to be used on the heavy duty master carrier on one way tracks or two way system whenadditional blackout is needed



Ref. 1780895

**MOTOR HOOK GA**
- Plastic hook to hang the curtain on the pulleys. Quantity needed is minimum 1 for one way tracks & 2 for two way tracks. More might be needed
- Color: White
- Unit weight: 2.3 g

## RIPPLEFOLD ACCESSORIES



Ref. 1780901

**RIPPLE RUNNER 1 7/8 GA**

- Runner mounted on wheels for 120% fulness ripple curtains. Supplied in a roll of 500 runners. Cord already snaped on the runner body. 500 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 21/m



Ref. 1780903

**RIPPLE RUNNER 2 3/8 GA**

- Runner mounted on wheels for 80% fulness ripple curtains. Supplied in a roll of 500 runners. Cord already snaped on the runner body. 500 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 17/m



Ref. 1780902

**RIPPLE RUNNER 2 1/8 GA**

- Runner mounted on wheels for 100% fulness ripple curtains. Supplied in a roll of 500 runners. Cord already snaped on the runner body. 500 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 19/m



Ref. 1780902

**RIPPLE ONE WAY BUTT ARM GA**

- Steel arms kit



Ref. 1780905

**RIPPLE MOTOR HOOK GA**

- Specific plastic hook with a
- female snaps to use for ripple curtains
- Color: White



Ref. 1782301

**RIPPLE SNAP TAPE 91M ROLL**

- Ripple snap tape 4 1/4 (108 mm) reel of 91 m



Ref. 1780946

**RIPPLE STRAIGHT ARM**

- Stainless steel arm to be screwed on the heavy duty master carrier on two way track when a ripple curtain with overlap solution is needed.



Ref. 1780947

**RIPPLE OVERLAP ARM KIT**

- Stainless steel overleap with roller wheel to be used with the heavy duty master carrier on one way ripple curtain with overlap.



Ref. 1782320

**SMALL RIPPLE OVERLAP ARM GA KIT**

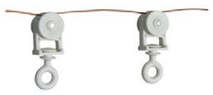
- Stainless steel overlap arm with roller wheel to be used with the heavy duty master carrier on two way ripple and classic curtain with overlap solution (for better curtain look)



Ref. 1782321

**SMALL RIPPLE UNDERLAP ARM GA KIT**

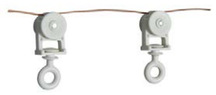
- Stainless steel underlap arm with roller wheel to be used with the heavy duty master carrier on two way ripple and classic curtain with overlap solution (for better curtain look)



Ref. 1782310

**ROTATING RIPPLE EYELET RUNNER 60 mm GA**

- Runner mounted on wheels for ripple curtains. Supplied in a roll of 500 runners. Cord is already snaped on the runner body. 500 rottating runner eylet supplied in a different bag
- No need to use snap tape



Ref. 1782848

**ROTATING RIPPLE EYELET RUNNER 80 mm GA**

- Runner mounted on wheels for ripple curtains. Supplied in a roll of 500 runners. Cord is already snaped on the runner body. 500 rottating runner eylet supplied in a different bag
- No need to use snap tape





## RIPPLEFOLD ACCESSORIES



Ref. 9027179

**90 DEGREE MOTOR ADAPTOR**

- Compatible with Glydea and Movelite pulley, provides for 90 degree positioning of the motor, enabling consistent fabric fold



Ref. 9027045

**RIPPLE ARM ADJUSTABLE KITS**

- Provides consistent fabric fold for Ripplefold applications

## BRACKETS



Ref. 1780906

**SWIVEL CEILING BRACKET GA**

- Swivel ceiling bracket
- Minimized light gap (2 mm)
- Color: Zinc plated
- Minimum qty necessary 2.5/m
- Unit weight: 12.5 g



Ref. 1780907

**ONE TOUCH CEILING BRACKET GA**

- Ceiling bracket allows for easy
- positionning of the fixing holes & snap on mounting of the track
- Color: White
- Minimum qty necessary 2.5/m
- Unit weight: 20 g



Ref. 1782789

**CEILING FIXING PLATE**

- Ceiling bracket allows for easy
- positionning & fix the track on the ceiling
- Color: White
- Minimum qty necessary 0.5 per meter
- Unit weight: 20 g



Ref. 1780909

**ADJUSTABLE WALL MOUNT BRACKET GA**

- Wall mount angle bracket with minimum 100 mm projection & 34 mm extention capability
- Can be used in combination with ceiling brackets 1 780 906 & 1 780 907. Supplied with the screws to fix one ceiling brackets
- No ceiling bracket supplied



Ref. 1780910

**DOUBLE ADJUSTABLE WALL MOUNT BRACKET GA**

- Wall mount angle bracket with minimum 100 mm projection & 34mm extension capability
- Can be used in combination with ceiling brackets 1780906 & 1780907. Supplied with the screws to fix one ceiling brackets
- No ceiling bracket supplied



Ref. 1782316

**HEAVY DUTY RAIL JOINT GA**

- Stronger piece to link two rails

## SPARE PARTS, ELECTRICAL ACCESSORIES, TOOLS



Ref. 1780908

**TOP MOUNT KIT GA**
- Kit of accessories to allows the Up side Down installation



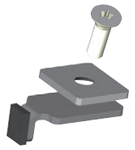
Ref. 1781913

**ROTATING RUNNER EYLET GA**
- Standard runner eylet spare parts



Ref. 1780948

**RIPPLE PENDANT GA**
- Ripple runner pendant



Ref. 1780954

**PULLEY STOPPER GA**
- Spare pulley stopper assembly as a kit
- Unit weight: 5 g



Ref. 1780898

**PULLEY COVER GA**
- Spare pulley cover
- Color: White
- Unit weight: 9.5 g



Ref. 9015443

**DCT 2.5 m CABLE**
- Wire, 2.5 m cable equiped with RJ12 plug to use during installation in combination with the DCT tool



# Silent accessories

## SILENT ACCESSORIES



Ref. 1782922

**SILENT MASTER CARRIER**
- Silent master carrier
- Can be used on all track configurations & shape including ripple curtain



Ref. 1782921

**SILENT ROTATING EYE RUNNER**
- Runner mounted on wheels with rotating eyelet
- Width: 14 mm / Max load: 1.5 kg
- Qty: typical 10 per meter
- Color: White



Ref. 9027590

**RIPPLE RUNNER W/EYELET 80 SILENT**
- Runner mounted on wheels for ripple curtains. Supplied in a roll of 250 runners. Cord is already snaped on the runner body. 250 rottating runner eylet supplied in a different bag
- No need to use snap tape



Ref. 9027591

**RIPPLE RUNNER W/EYELET 60 SILENT**
- Runner mounted on wheels for ripple curtains. Supplied in a roll of 250 runners. Cord is already snaped on the runner body. 250 rottating runner eylet supplied in a different bag
- No need to use snap tape



Ref. 9027592

**RIPPLE RUNNER 2 3/8" SILENT**
- Runner mounted on wheels for 80% fulness ripple curtains. Supplied in a roll of 250 runners. Cord already snaped on the runner body. 250 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 17/m



Ref. 9027593

**RIPPLE RUNNER 2 1/8" SILENT**
- Runner mounted on wheels for 100% fulness ripple curtains. Supplied in a roll of 250 runners. Cord already snaped on the runner body. 250 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 19/m



Ref. 9027594

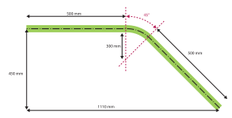
**RIPPLE RUNNER 1 7/8" SILENT**
- Runner mounted on wheels for 120% fulness ripple curtains. Supplied in a roll of 250 runners. Cord already snaped on the runner body. 250 snap penpands supplied in a different bag.
- Width 14 mm / Max. load: 1.5 kg
- Qty usually 21/m



Ref. 9027657

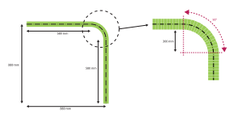
**RIPPLE FOLD RUNNER FIXING HOLDER**
- Allows simple connection of Ripple fold runner to Master Carrier
- 30pcs/box

## BENT RAILS FROM LOGISTICS



Ref. 1782258

**GA BENT RAIL**
- 750×750mm
- R: 300 mm
- A: 45°



Ref. 1782259

**GA BENT RAIL**
- 900×900mm
- R: 300 mm
- A: 90°



# Part 4

## Tools & Guides

# Setting tools

## RS485 Setting Tool

### Purpose of this tool

- This tool is used to program RS485 motor
  - Motor rotation
  - End limits
  - Preset positions (setting, testing, erasing )
  - Speed for DC motors
  - Factory default
- This tool is also used to see parameters of a motor



### Where to get it ?

- Available at LI Ref 9017142

## USB/RS485 interface

### Purpose of this tool

- Fast and easy plugging on MoCo to commission or diagnostic a MoCo. This tool is plugged in the extension box connector (RS485)

### Where to get it ?

- You can order it on internet with key words :
  Abus TV RS485 USB interface TV8468

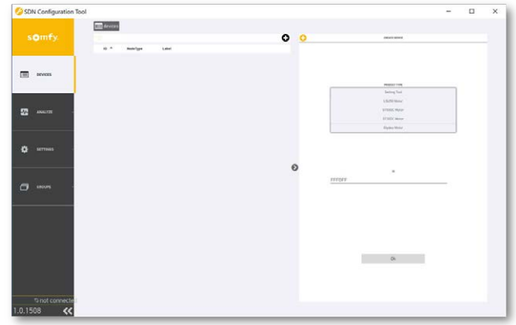
# Configuration tools

## SDN Configuration Tool

### Purpose of this tool

**PC software for the blind installers, blind makers & system integrators to set:**

- Motor rotation
- End limits
- Preset positions (setting, testing, erasing )
- Speed for DC motor
- Factory default
- Motor software upgrate



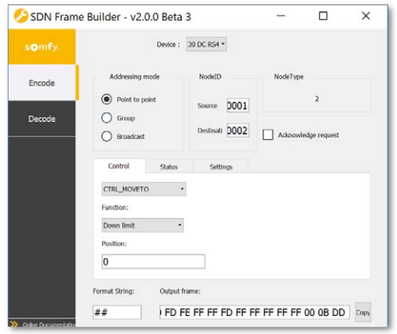

### Where to get it ?

- Available in Somfy Projects website: www.somfy.com/projects/downloads

## Frame builder

### Purpose of this tool

- PC software dedicated to system integrators. This software allows to create SDN frame building by selecting the desired motors. Those frames will be directly useable by copy/paste them on the desired third party controllers. The explanations of the frame building can be found in the SDN Integration guide.




### Where to get it ?

- Available in Somfy Projects website: www.somfy.com/projects/downloads

# Guides

## SDN Integration guide

### Purpose of this tool

- Explain the technical information needed to create and manage SDN devices (protocol information).

### Where to get it ?

- Available in Somfy Project webside: www.somfy.com/projects/downloads




## SDN Wiring guide

### Purpose of this tool

- Document summarizing the mandatory wiring rules of the hardware installation.

### Where to get it ?

- Available in Somfy Project website: www.somfy.com/projects/downloads






# Part list

## Shade and curtain motorisation

| | DESCRIPTION | MARKET |
|---|---|---|
| **Sonesse 40 RS485** | | |
| Ref. 1240555 | Sonesse 40 RS485 3/30 VVF3M UNIT | 230V 50Hz countries |
| Ref. 1240557 | Sonesse 40 RS485 6/20 VVF3M UNIT | 230V 50Hz countries |
| Ref. 1240558 | Sonesse 40 RS485 9/12 VVF3M UNIT | 230V 50Hz countries |
| Ref. 1240836 | Sonesse 40 RS485 3/30 VVF3M UNIT SCT | Argentina |
| Ref. 1240837 | Sonesse 40 RS485 6/20 VVF3M UNIT SCT | Argentina |
| Ref. 1240838 | Sonesse 40 RS485 9/12 VVF3M UNIT SCT | Argentina |
| Ref. 1240839 | Sonesse 40 RS485 3/30 VVF3M UNIT KUKAS CMIM | Kuwait / Morocco |
| Ref. 1240840 | Sonesse 40 RS485 6/20 VVF3M UNIT KUKAS CMIM | Kuwait / Morocco |
| Ref. 1240841 | Sonesse 40 RS485 9/12 VVF3M UNIT KUKAS CMIM | Kuwait / Morocco |
| Ref. 1240562 | 404S2 Sonesse 40 RS485 4/36 FC UNIT | 120V 60Hz countries |
| Ref. 1240563 | 406A2 Sonesse 40 RS485 6/24 FC UNIT | 120V 60Hz countries |
| Ref. 1240564 | 409R2 Sonesse 40 RS485 9/14 FC UNIT | 120V 60Hz countries |
| Ref. 1240565 | 403S6 Sonesse 40 RS485 3/36 SASO VVF3M UNIT | Saudi Arabia |
| Ref. 1240566 | 406A6 Sonesse 40 RS485 6/24 SASO VVF3M UNIT | Saudi Arabia |
| Ref. 1240567 | 409R6 Sonesse 40 RS485 9/14 SASO VVF3M UNIT | Saudi Arabia |
| Ref. 1240568 | 403S6 Sonesse 40 RS485 3/36 KC VVF3M BAR | Korea |
| Ref. 1240569 | 406A6 Sonesse 40 RS485 6/24 KC VVF3M BAR | Korea |
| Ref. 1240570 | 409R6 Sonesse 40 RS485 9/14 KC VVF3M UNIT | Korea |
| Ref. 1240842 | 403S6 Sonesse 40 RS485 3/36 VVF3M UNIT | 220V 60Hz countries |
| Ref. 1240843 | 406A6 Sonesse 40 RS485 6/24 VVF3M UNIT | 220V 60Hz countries |
| Ref. 1240844 | 409R6 Sonesse 40 RS485 9/14 VVF3M UNIT | 220V 60Hz countries |
| **Sonesse 30 RS485** | | |
| Ref. 1241144 | Sonesse 30 RS485 2/25 | SNABA |
| Ref. 1241145 | Sonesse 30 RS485 2/25 | WW |
| **Sonesse 50 ULTRA RS485 AC** | | |
| Ref. 1002566 | 506A2 ST50 AC UQ RS485 6/24 SJ | 120V 60Hz countries |
| Ref. 1003036 | 506A6 Sonesse ULTRA RS485 6/24 | 220V 60Hz countries |
| Ref. 1003037 | 506A2 ST50 AC UQ RS485 6/24 SJ | 120V 60Hz countries |
| Ref. 1003048 | SONESSE ULTRA 50 RS485 6/20 VV | 230V 50Hz countiries |
| **Sonesse 50 ULTRA RS485 DC** | | |
| Ref. 1134022 | 504A8 Sonesse ULTRA RS485 4/25 | WW |
| Ref. 1134094 | 504A8 Sonesse ULTRA DC RS485 | WW |
| Ref. 1134110 | 504A8 SONESSE ULTRA 50 DC RS48 | WW |

# Shade and curtain motorisation

| | DESCRIPTION | MARKET |
|---|---|---|
| **Sonesse 50 RS485** | | |
| Ref. 1002286 | 506S2 SONESSE RS485 6/32 SJTW3 | 120V 60Hz countries |
| Ref. 1002287 | 510S2 SONESSE RS485 10/32 SJTW | 120V 60Hz Countries |
| Ref. 1002342 | 505S6 SONESSE RS485 5/32 KIT S | 220V 60Hz countries |
| Ref. 1002345 | 510S6 SONESSE RS485 10/32 KIT | 220V 60Hz countries |
| Ref. 1002382 | SONESSE 50 RS485 6/28 VVF3M UN | 230V 50Hz countiries |
| Ref. 1002383 | SONESSE50 RS485 10/28 VVF3M UN | 230V 50Hz countiries |
| Ref. 1002499 | SONESSE 50 RS485 6/17 VVF3M U | 230V 50Hz countiries |
| Ref. 1002500 | SONESSE 50 RS485 15/17 VVF3M U | 230V 50Hz countiries |
| Ref. 1002512 | 510S6 SONESSE RS485 10/32 VVF3 | 220V 60Hz countries |
| Ref. 1002515 | 505S6 SONESSE RS485 5/32 SASO | Saudi Arabia |
| Ref. 1002526 | 506S2 SONESSE RS485 6/32 VVF3M | 120V 60Hz Countries |
| Ref. 1002527 | 510S2 SONESSE RS485 10/32 VVF3 | 120V 60Hz Countries |
| **LT 50 SDN** | | |
| Ref. 1002283 | 505S3 LT RS485 5/32-38 VVF1M B | Japan |
| Ref. 1002288 | 535A2 LT RS485 35/20 SJTW3M UN | 120V 60Hz countries |
| Ref. 1002426 | 520A3 LT RS485 20/17-20 VVF1M | Japan |
| Ref. 1002427 | 515S2 LT RS485 15/38 SJTW3M UN | 120V 60Hz countries |
| Ref. 1002494 | LT 50 RS485 6/32 VVF3M UNIT | 230V 50Hz countries |
| Ref. 1002495 | LT 50 RS485 15/32 VVF3M UNIT | 230V 50Hz countries |
| Ref. 1002496 | LT 50 RS485 6/17 RRF3M UNIT | 230V 50Hz countries |
| Ref. 1002497 | LT 50 RS485 15/17 RRF3M UNIT | 230V 50Hz countries |
| Ref. 1002498 | LT 50 RS485 35/17 RRF3M UNIT | 230V 50Hz countries |
| Ref. 1002508 | 512S6 LT RS485 12/38 VVF3M UNI | 230V 50Hz countries |
| Ref. 1002510 | 518A6 LT RS485 18/20 VVF3M UNI | 230V 50Hz countries |
| Ref. 1002555 | LT 50 RS485 6/17 SW 60 RRF 3M | 230V 50Hz countries |
| Ref. 1002556 | LT 50 RS485 15/17 SW 60 RRF3 M | 230V 50Hz countries |
| Ref. 1241540 | LT50 RS485 50/12 | 230V 50Hz countries |



# Shade and curtain motorisation

| | DESCRIPTION | DISTRIBUTION |
|---|---|---|
| **Glydea** | | |
| Ref. 1003150 | GLYDEA ULTRA 35E DCT EU MIC | ALC LI |
| Ref. 1003151 | GLYDEA ULTRA 35E DCT US 10' + PLUG MIC | ALC |
| Ref. 1003152 | GLYDEA ULTRA 35E RTS US 10' + PLUG MIC | ALC |
| Ref. 1003154 | GLYDEA ULTRA 35E RTS MIC | ALC LI |
| Ref. 1003211 | GLYDEA ULTRA 35E DCT N EU MIC SA | ALC |
| Ref. 1003213 | GLYDEA ULTRA 35E RTS N MIC SA | ALC |
| Ref. 1003157 | GLYDEA ULTRA 60E DCT EU MIC | ALC LI |
| Ref. 1003158 | GLYDEA ULTRA 60E DCT US 10' + PLUG MIC | ALC |
| Ref. 1003159 | GLYDEA ULTRA 60E RTS US 10' + PLUG MIC | ALC |
| Ref. 1003161 | GLYDEA ULTRA 60E RTS MIC | ALC LI |
| Ref. 1003214 | GLYDEA ULTRA 60E DCT N EU MIC SA | ALC |
| Ref. 1003216 | GLYDEA ULTRA 60E RTS N MIC SA | ALC |
| Ref. 1003164 | GLYDEA ULTRA 35E DCT EU MIF | LI |
| Ref. 1003166 | GLYDEA ULTRA 35E RTS MIF | LI |
| Ref. 1003167 | GLYDEA ULTRA 60E DCT EU MIF | LI |
| Ref. 1003169 | GLYDEA ULTRA 60E RTS MIF | LI |
| Ref. 1240226 | GLYDEA ULTRA 35E DCT N | ALC LI |
| Ref. 1240227 | GLYDEA ULTRA 35E RTS N | ALC LI |
| Ref. 1240229 | GLYDEA ULTRA 60E DCT N | ALC LI |
| Ref. 1240230 | GLYDEA ULTRA 60E RTS N | ALC LI |
| Ref. 1870275 | CURTAIN MOTOR RS485 MODULE | ALC LI |

* RS485 module compatible with motor revision C or later

# Notes



# Notes

somfy

Make the move

**About Somfy**

For more than 50 years, Somfy has been driving durable positive motion as a pioneer in window and door automation.

Developed with comfort, ease of use, security and sustainability in mind, our seamless and connective solutions are designed to help people make the move to living spaces impactful for humans and with a reduced impact on nature.

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