Intelligent

Shade Management

Somfy Digital Network
Reference Book

somfy

Summary

somfy.

Part 1

Things you need to know about Somfy Digital Network

1 Why Somfy Digital Network?

HISTORY

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.

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2 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.

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.
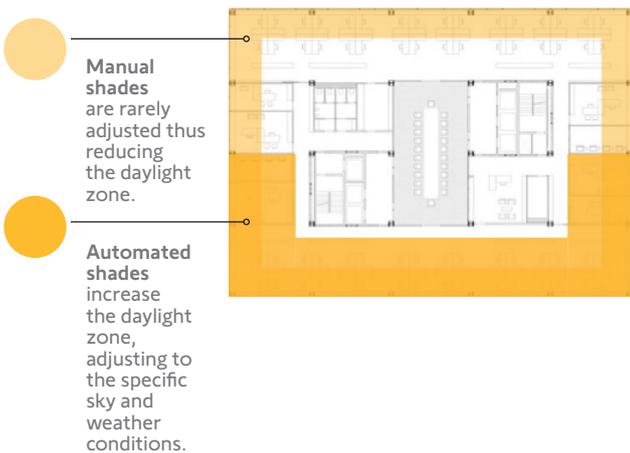
BUILDING INTEGRATION

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.

Building Automation
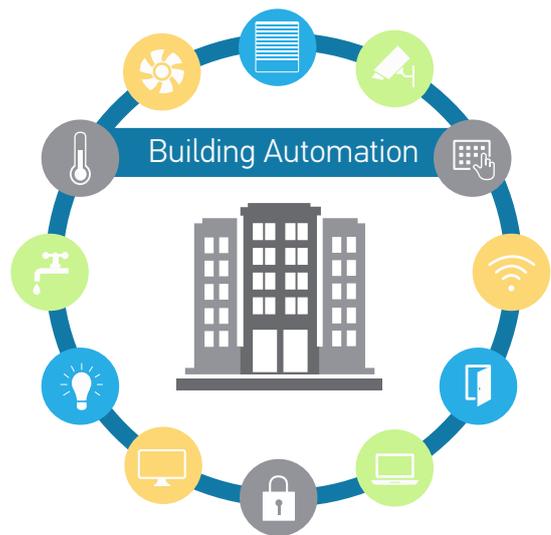
DYNAMIC INSULATION™

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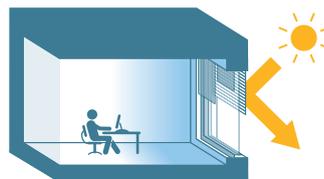
Lower window coverings during the hottest part of the day to reduce heat gain.

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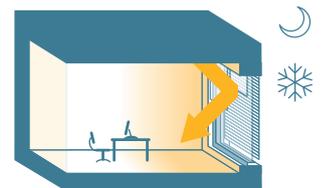
Lowered window coverings prevent heat loss through windows during nighttime hours.

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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

OFFICES

HOSPITALITY

Vdara

EDUCATION

HEALTHCARE

BUILDING MANAGEMENT SOLUTION
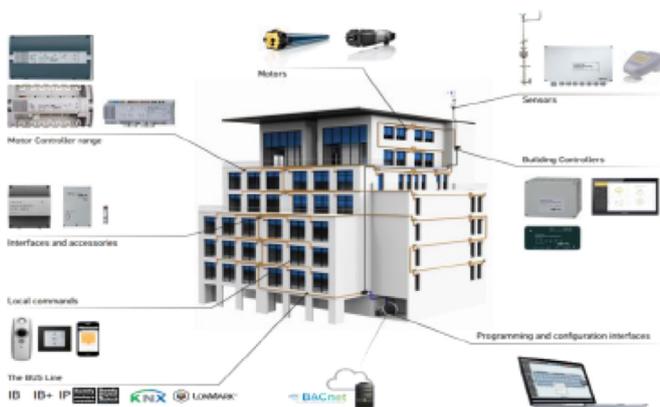
4 Warranty

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.

5 YEARS WARRANTY

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Part 2
Use Cases

animeo IP

SDN Wiring guide   SDN Configuration tool

Terminator

Decoflex Digital
Keypad

animeo IP
Sub
controller

RS485 6 x
RJ45 Bridging
Adapter

RS485 6 x
RJ45 Bridging
Adapter

Terminator

RS485

BMS Interface

BACnet

Terminator

Decoflex Digital
Keypad

animeo IP
Building
controller

RS485 6 x
RJ45 Bridging
Adapter

RS485 6 x
RJ45 Bridging
Adapter

Terminator

RS485

Operating Software
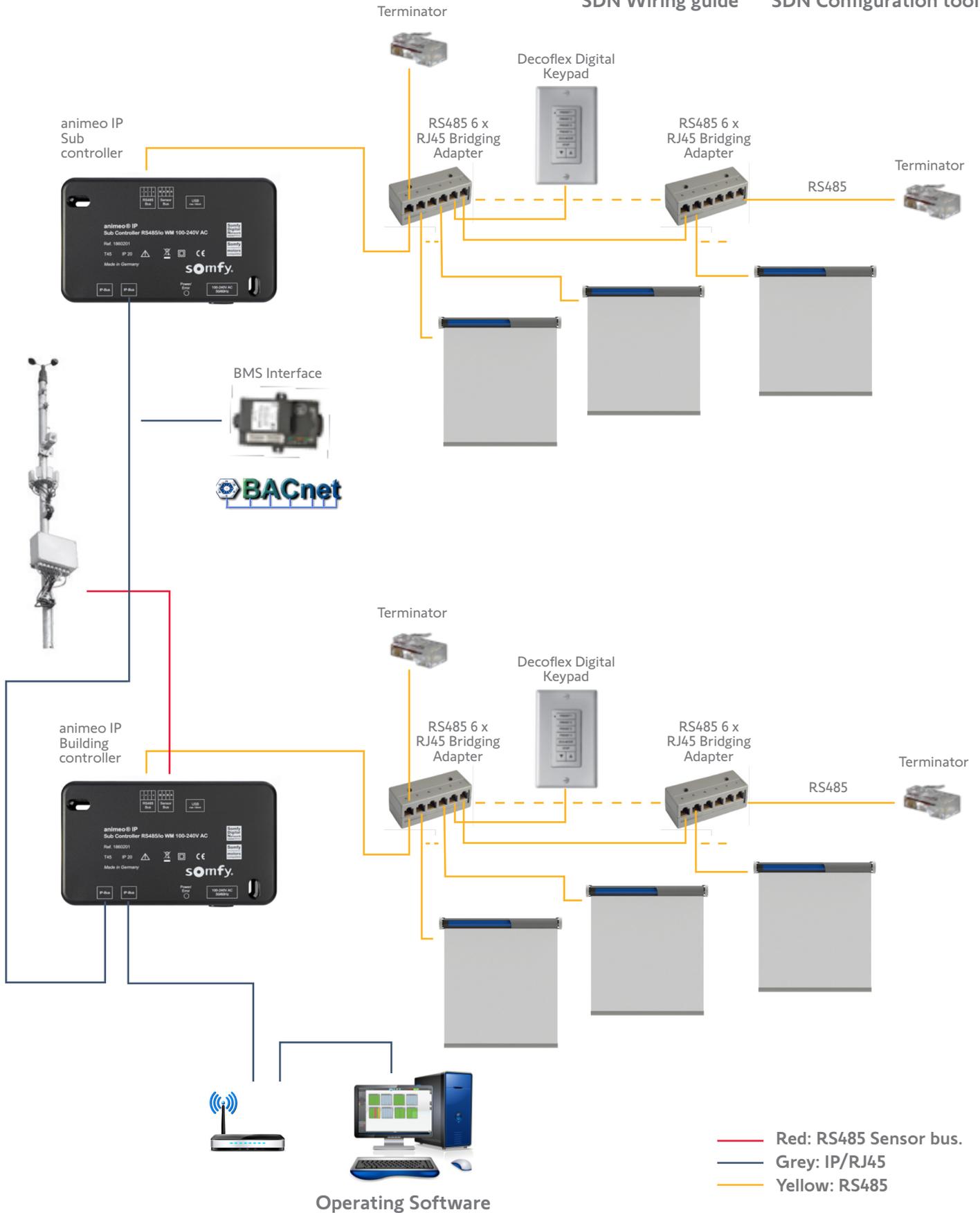
Red: RS485 Sensor bus.
Grey: IP/RJ45
Yellow: RS485

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Third party integration with BACnet

System Integration via BACnet: Schneider, ABB, AMX, Distec Control, CRESTRON

BACnet

SDN Wiring guide

SDN Configuration tool

Terminator

RS485 6 x RJ45 Bridging Adapter

RS485 6 x RJ45 Bridging Adapter

Terminator

RS485

BMS Interface
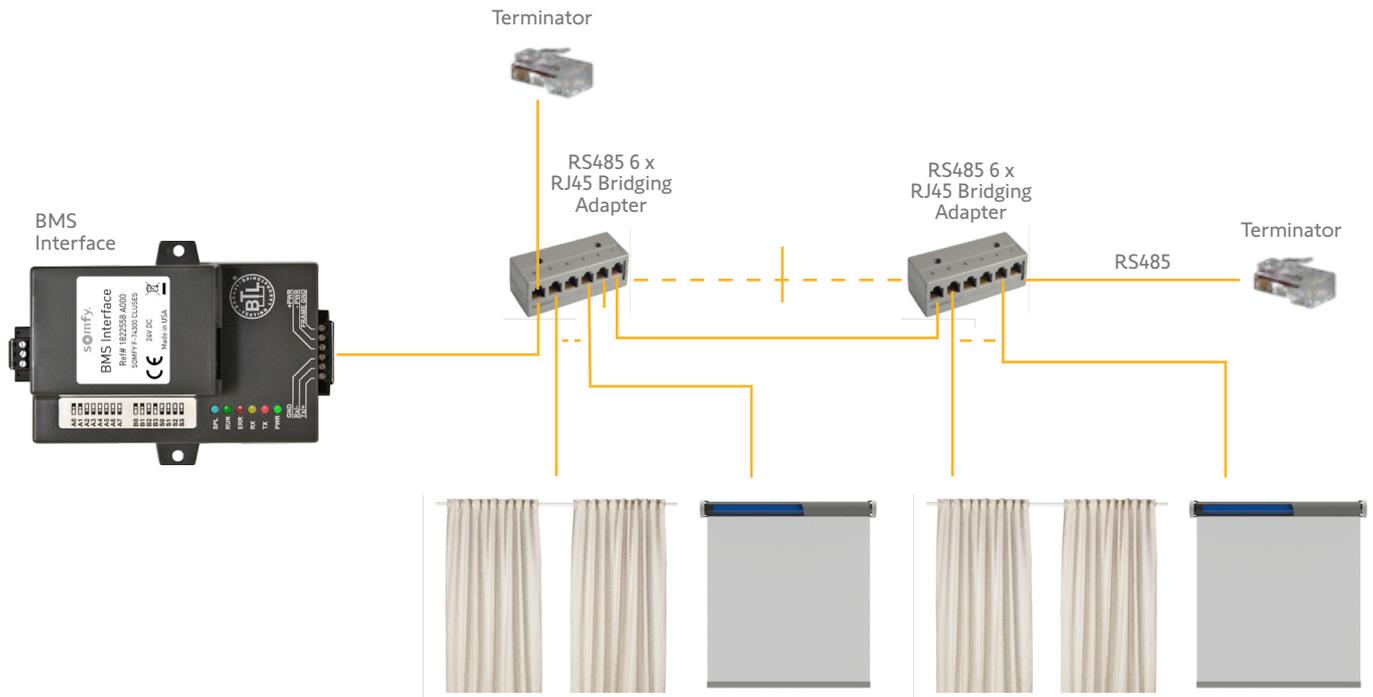
Third party integration with SDN

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

Terminator

RS485 6 x
RJ45 Bridging
Adapter

RS485 6 x
RJ45 Bridging
Adapter

Terminator

RS485

Third party
Controller
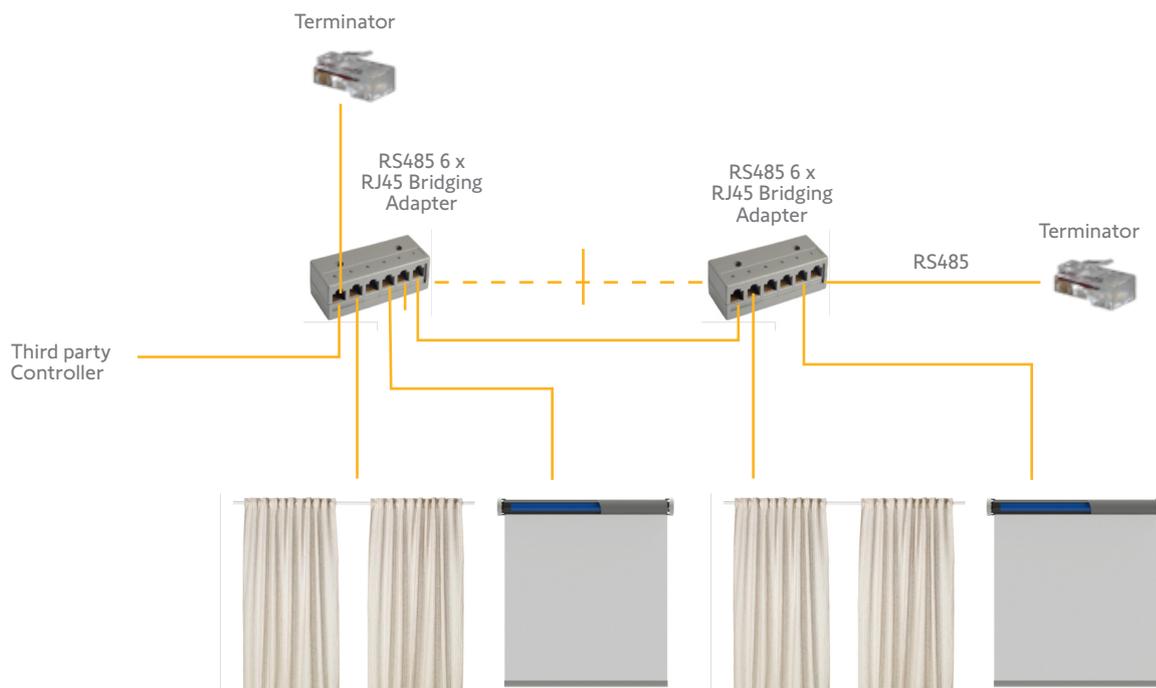
somfy®

Third party integration with KNX

SDN Wiring guide

SDN Configuration tool

RS485 6 x
RJ Bridging
Adapters

RS485

KNX RS485
Motor
Controller

Weather Station

Shadow
Management
Device

KNX
Switch

Master
Control

KNX

RTS Manual
Control

Somfy
KNX RTS
Receiver
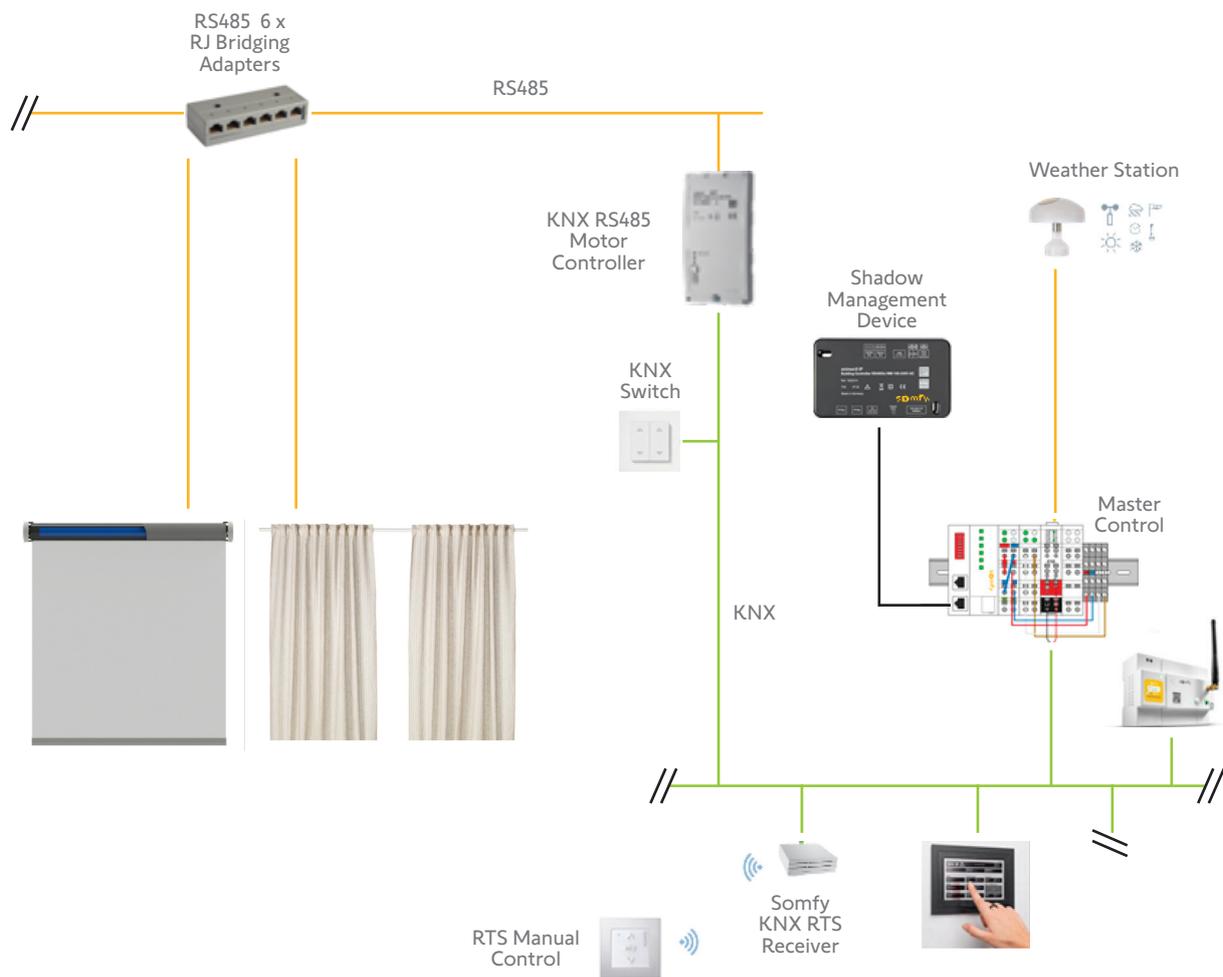
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Part 3
Products

somfy®

3.1
Motors

Sonesse 30 RS485

Somfy quiet digital motorization for small blinds, dedicated to interior applications.

Somfy +

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with: Sonesse 30 range of accessories

→ Recommended to set with: RS485 Setting Tool (ref. 9 017 142)

Compatible end-products

| Roller blinds | Roman blinds | Pleated and cellular blinds | Venetian blinds | Zebra blinds |

Product main functionalities

Designed for silence

DATA CABLE — **Easy limit setting**
Easy setting thanks to RS485 setting tool, RS485 controller, or DCT setting tool.

Information feed back
On the controler interface.

MOTOR NODE ID — **Motor node ID**
Easy localization with motor node ID.

ADJUSTABLE SPEED — **Adjustable speed**
From 6 to 28 rpm.

STABILIZED SPEED — **Stabilized speed**
For a perfect alignment of the blinds one with each other.

SOFT START AND SOFT STOP — **Soft start and Soft stop**

Thin head
White and thin round head for discreet blending.

Benefits for professionals

Easy integration
○ Fit small diameter tubes: suitable for diameter 31 mm or more (internal diameter)
○ Compatible with Somfy tubular range of accessories
○ White and thin round head for discreet blending

Easy Installation
○ Choose the right speed according to your blind: adjustable speed from 6 to 28 rpm

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

Range
○ A high torque in DC technology to motorize your blinds : 2 Nm

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

Protect your blind
○ Soft stop and soft start to protect the fabric

Discreet integration and home harmony
○ White and thin round head for discreet blending

somfy®

Sonesse 30 RS485

Technical data

Thermal time	2,5 min (software management)
Supply	24 V DC
Index protection rating	IP 30
Limit switch unit	Digital
Limit switch capacity	44 turns
Temperature working range	0°C to +60°C
Electric insulation	Class III

L

8.3

ø44.0
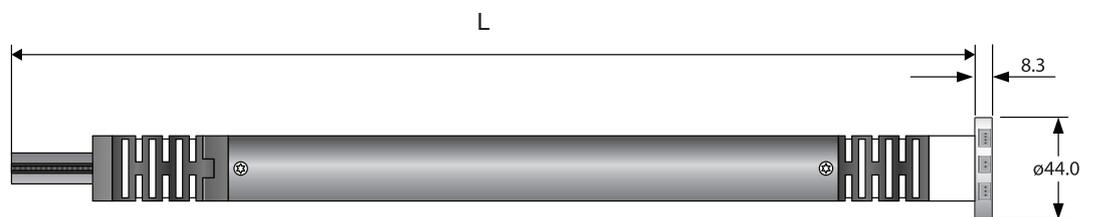
3 threads by wire	Power cable	Thin head
Red = RS485 A Green = Ground Black = RS485 B	Grey = Positive White = Negative	29.0 ø7.3 2.3 MOUNTING HOLES ø3.0 7.04 DEEP ACCEPTS M3.5 SCREW FOR PLASTIC somfy.

Performances

Nominal voltage	24 V DC
Torque (Nm)	2
Speed (rpm)	Adjustable speed from 6 to 28 rpm

Dimensions

L (mm)	398

Certifications

CE   WCMA Winner

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. 9 017 142)

Compatible end-products

Roller blinds   Roman blinds   Projection Screen   Zebra blinds

Product main functionalities

DATA CABLE

Easy limit setting
Easy setting thanks to RS485 setting tool, or RS485 controller.

Information feed back
On the controler interface.

MOTOR NODE ID

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 35 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

somfy

LT 50 RS485

Technical data

Thermal time	4 min for 230 V, 120 V, 220 V 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 500 turns for 100 V
Temperature working range	−20°C to +60°C
Electric insulation	Class I
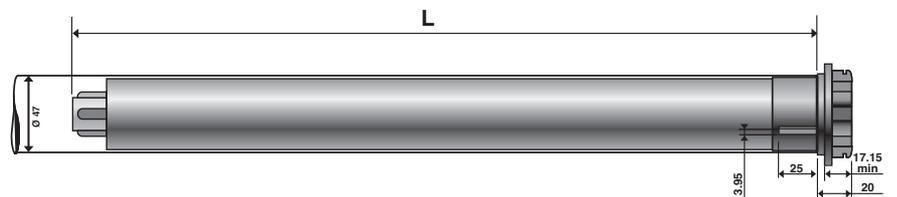
230 V / 220 V	120 V / 100 V	Star head
Blue = Neutral Brown = Active Yellow/Green = Earth	White = Neutral Black = Active Green = Earth	Ø 63

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	15	35	5	20	30	12	6	18
Speed (rpm)	32	17	17	32	17	38	20	32/38	17/20	17/20	38	20	20

Dimensions

L (mm)	605	605	605	675	675	675	675	605	605	605	–	605	–

Certifications

CE $\text{\textbf{R}}\text{U}$ ⬆ ⓒⓒⓒ KC SASO COMPLIANT

Sonesse 50 RS485

Somfy Digital Network RS485

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

Compatible end-products

Roller blinds	Roman blinds	Pleated and cellular blinds	Venetian blinds*	Projection Screen	Zebra blinds

* No management for lift function

Product main functionalities

Designed for silence

Star head
6 possibilities to orientate the motor head.

DATA CABLE

Easy limit setting
Easy setting thanks to RS485 setting tool or RS485 controller.

Information feed back
On the controler interface.

MOTOR NODE ID

Motor node ID
Easy localization with motor node ID.

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

Sonesse 50 RS485

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
Blue = Neutral Brown = Active Yellow/Green = Earth	White = Neutral Black = Active Green = Earth	Ø 63

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

CE c UL us SASO COMPLIANT

Sonesse ULTRA 50 RS485 AC

Somfy Digital Network RS485

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

Somfy +

ULTRA 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. 9 017 142)

Compatible end-products

Roller blinds

Pleated and cellular blinds

Product main functionalities

Designed for silence

DATA CABLE

Easy limit setting
Easy setting thanks to RS485 setting tool or RS485 controller.

Information feed back
On the controler interface.

MOTOR NODE ID

Motor node ID
Easy localization with motor node ID.

Star head
6 possibilities to orientate the motor head.

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

somfy

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

STAR HEAD

ø 63

L1
L2
ø 47
17.15 min.
3.95
20 max.
L3
26.1 max.

2 mounting holes for self tapping screws. Dia. 5 mm (cat #9670013).

ROUND HEAD

ø 49.6

L1
L2
ø 47
14.3 max.
3.95
16.95 max.
L3
26.1 max.

2 mounting holes for self tapping screws. Dia. 4 mm (cat #1004058).
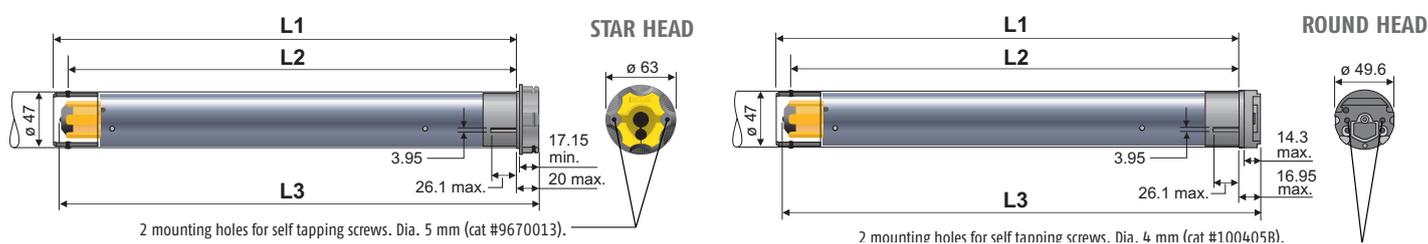
230 V / 220 V	120 V / 100 V
Blue = Neutral Brown = Active Yellow/Green = Earth	White = Neutral Black = Active Green = Earth

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

EAC KC NOW SASO COMPLIANT

Sonesse ULTRA 50 RS485 DC

Somfy Digital Network RS485

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

Somfy +

ULTRA 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. 9 017 142)

Compatible end-products

Roller blinds

Pleated and cellular blinds

Product main functionalities

Designed for silence

DATA CABLE

Easy limit setting
Easy setting thanks to RS485 setting tool or RS485 controller.

Information feed back
On the controler interface.

MOTOR NODE ID

Motor node ID
Easy localization with motor node ID.

Square head

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

somfy.

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 turns each directional rotation at maximum speed
Temperature working range	0°C to +60°C
Electric insulation	Class III
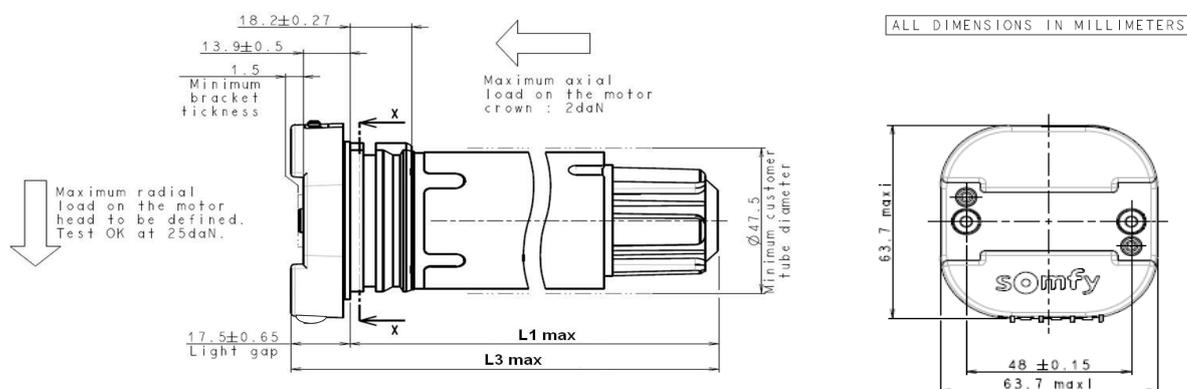
Performances

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

Dimensions

L (mm)	780

Certifications

Glydea Ultra 35e/60e RS485

Glydea Motor
+ Curtain Motor
RS485 Module
ref. 1870275

Somfy +

Quiet operation and full benefits of RS485 bi-directionnality

→ Recommended to use with:
Silent accessories

→ Recommended to set with:
RS485 Setting Tool
(ref. 9 017 142)

The Glydea Ultra 35e/60e RS485 provides a discreet, flexible and robust solution or motorizing all types of draperies. Thanks to RS485 technology, Glydea Ultra is a bi-directional curtain solution for high end smart building control.

Compatible end-products

Curtains

Product main functionalities

Designed for silence

SOFT START AND SOFT STOP — Soft start and Soft stop

MANUAL OPERATION — Manual operation possible in case of power failure

Touch Motion
Open and close the curtain simply by pulling on the fabric.

DATA CABLE — Easy limit setting
Easy setting thanks to RS485 setting tool or RS485 controller.

Information feed back
On the controler interface.

MOTOR NODE ID — Motor node ID
Easy localization with motor node ID.

ADJUSTABLE SPEED — Adjustable speed
Silent speed : 7.5 cm/s
High speed : from 12.5 cm/s to 20cm/s.

Benefits for professionals

Easy Installation
- No maintenance necessary after installation

Easy re-setting
- Programming button and LED on motor head interface

Reliability and profitability
- Safe protocol
- Somfy quality & warranty

Quick setting using RS485 setting tool
- Open and Closed End limit reset
- Motor rotation direction
- Speed setting
- Touch motion sensitivity
- Reset motor settings
- Node ID discovering

Setting from a distance
- Open and close limits set by both RS485 setting tool and config tool

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 thanks to the silent accessories and the motor design
- Move your drapery effortlessly
- Avoid any damage caused by manual operation

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

Aesthetic integration
- Discreet design, with cabling hidden
- Adjustable limits, to allow the curtain to fall nicely

Safety and reliability
- No manual cords : free from danger of strangling

somfy

Glydea Ultra 35e/60e RS485

Technical data

Voltage Supply	AC 90 –255V , 50-60Hz
Index Protecting rating	IP 30
Limit Switch type	Electronic
Temperature working range	0°C to 60°C
Temperature storage range	–30°C to +80°C
Insulation class	Class I
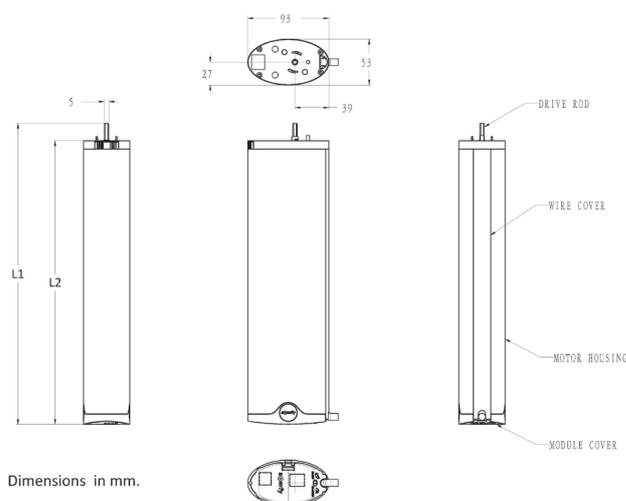
Dimensions in mm.

Performances

Nominal torque	0.6Nm / 1.0Nm
Nominal Speed	105 rpm (15cm/s)
Sound level	😊😊😊
Curtain weight	Up to 35kg / 60kg
Dimensions	Track maximum 10m/12m length

Dimensions

L1 (mm)	348
L2 (mm)	328

Certifications

somfy®

3.2

Controls

RS485 RTS transmitter

Somfy
Digital
Network
RS485

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

somfy®

RTS BNC antenna

Dry contact inputs (x5)

somfy

RS485 RTS TRANSMITTER

Power supply
90-255VAC 50/60Hz
65mA @90V to 30mA@255V

RS485
NC - + G

AC Power supply

RS485 Somfy data line
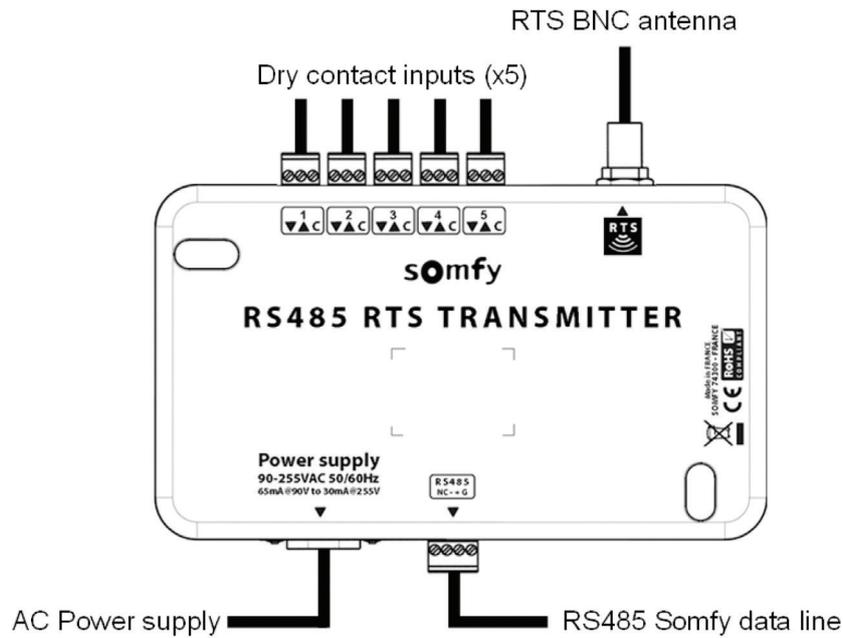
Dimensions

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 Dry contact up to 5 3-pin 3.5 mm detachable terminal blocks
External antenna	1 BNC Connector

Certifications

animeo IP

IP Building Controller

The IP Building Controller is an integrated hardware and software central device for animeo IP/RS485 and animeo IP/io installations.

It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Ref. 1 822 314

Installation advantages

- For larger installations, the IP Building Controller's capacity can be expanded with the addition of an animeo IP Sub Controller (Ref. 1860201).
- RJ45 and spring clamb connectors for false prove conntections.
- Suitable for wall-mounting and DIN-rail installation.

Functional advantages

- The IP Building Controller features an intuitive graphical user interface to simplify programming, commissioning, operation and system status.
- Automatic discovery of blinds, sensors and local control points.
- No zone limitation; a window can be a single zone.
- Allows configuration and binding of customized web remotes.

Wiring

Connection	Cables	Twisted pairs	Max. distance
RS485 Bus	Min.: 2 x 0.6 mm/22 AWG Max.: 2 x 0.8 mm/20 AWG	Required	1000 m/1650 ft
Sensor Bus	Min.: 2 x 0.6 mm/22 AWG Max.: 2 x 0.8 mm/20 AWG	Required	500 m/1650 ft
USB	USB 2.0 Standard A	-	10 m/3 ft
Alarm IN	Min.: 2 x 0.6 mm/22 AWG Max.: 2 x 0.8 mm/20 AWG	-	100 m/330 ft
Key switch IN	Min.: 2 x 0.6 mm/22 AWG Max.: 2 x 0.8 mm/20 AWG	-	100 m/330 ft
Error OUT	Min.: 3 x 0.6 mm/22 AWG Max.: 3 x 0.8 mm/20 AWG	-	100 m/330 ft
IP Bus	Cat. 5/100 Mbit/s	-	100 m/330 ft
LAN	Cat. 5/100 Mbit/s	-	100 m/330 ft

Classification

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

- Class A control function
- Type 1 action
- Pollution degree: 2
- Rated impulse voltage: 2.5 kV
- Temperature of the ball hardness test: 82 °C
- Type X attachment
- Method of attachment for non-detachable cords: screwless spring terminal
- EMC emission test: UAC = 230 V AC IAC = 0.07 A (EN 55022 Class B emission)

animeo® IP
Building Controller RS485 WM 100-230 V

Ref. 1822314
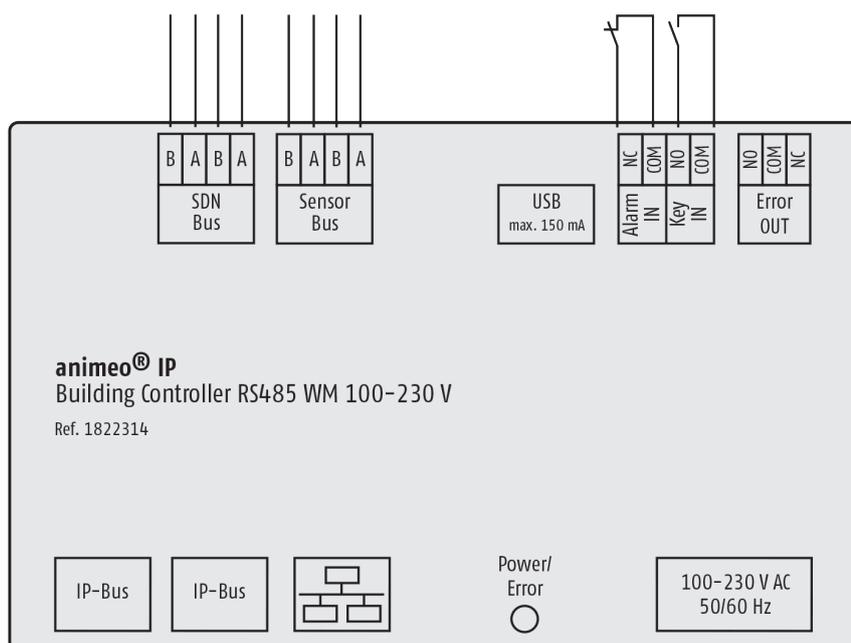
Characteristics

Supply voltage	100-230 V AC / 50/60 Hz
Stand-by current (IEC 62301)	< 0.08 A@230 V AC < 110 mA@110 V AC
Stand-by power (IEC 62301)	< 5,2 W@230 V AC < 6 W@110 V AC
Terminals	Spring connectors
Alarm IN	Normally closed, SELV 16 V DC
Key IN	Normally open, SELV 16 V DC
Error OUT	Dry contact, NC and NO, 24 V / 1 A max.
Battery	3V / Type CR 2032
Operating temperature	0 °C to 45 °C
Relative humidity	max. 85 %
Material of housing	PC-ABS
Housing dimensions (w x h x d)	100 x 175 x 50 mm
Weight	385 g
Degree of protection	IP 20
Protection class	II
Conformity	www.somfy.com/ce

animeo IP

IP SP Controller

Ref. 1 860 201

The IP Sub Controller expands animeo IP/RS485 and animeo IP/io installations. An IP Building Controller is essential for the integration of an IP Sub Controller.

It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Installation advantages

- The IP Sub Controller utilizes the IP Building Controller's integrated router to interface over an IP backbone to provide a stable connection between all appliances.
- RJ45 and spring clamb connectors for false prove connections.
- Suitable for wall-mounting and DIN-rail installation.

Functional advantages

- Allows the expansion of the installation and the integration of additional blinds and local control points.
- The IP Sub Controller integrates additional sensors of the real-time weather station.
- Integrated IP switch for simplified connectivity of additional IP Sub Controllers (pass through).

Wiring

Connection	Cables	Twisted pairs	Max. distance
RS485 Bus	Min.: 2 x 0.6 mm/19 AWG Max.: 2 x 0.8 mm/18 AWG	Required	1000 m/1650 ft
Sensor Bus	Min.: 2 x 0.6 mm/19 AWG Max.: 2 x 0.8 mm/18 AWG	Required	500 m/1650 ft
USB	USB 2.0 Standard A	-	1.0 m/3 ft
IP Bus	Cat. 5 / 100 Mbit/s	-	100 m/330 ft

Classification

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

- Class A control function
- Type 1 action
- Pollution degree: 2
- Rated impulse voltage: 2.5 kV
- Temperature of the ball hardness test: 82 °C
- Type X attachment
- Method of attachment for non-detachable cords: screwless spring terminal
- EMC emission test: UAC = 230 V AC IAC = 0.07 A (EN 55022 Class B emission)

```
          │ │ │ │      │ │ │ │
      ┌───┴─┴─┴─┴──┐ ┌─┴─┴─┴─┴──┐   ┌──────────┐
      │ B  A  B  A │ │ B  A  B  A│   │   USB    │
      │            │ │           │   │max. 150 mA│
      │   RS485    │ │  Sensor   │   └──────────┘
      │    Bus     │ │   Bus     │
      └────────────┘ └───────────┘
```

animeo® IP
Sub Controller RS485/io WM 100-230 V AC

Ref. 1860201

```
  ┌────────┐  ┌────────┐        Power/      ┌──────────────┐
  │ IP-Bus │  │ IP-Bus │        Error       │ 100-230 V AC │
  └────────┘  └────────┘          ○         │   50/60 Hz   │
                                            └──────────────┘
```
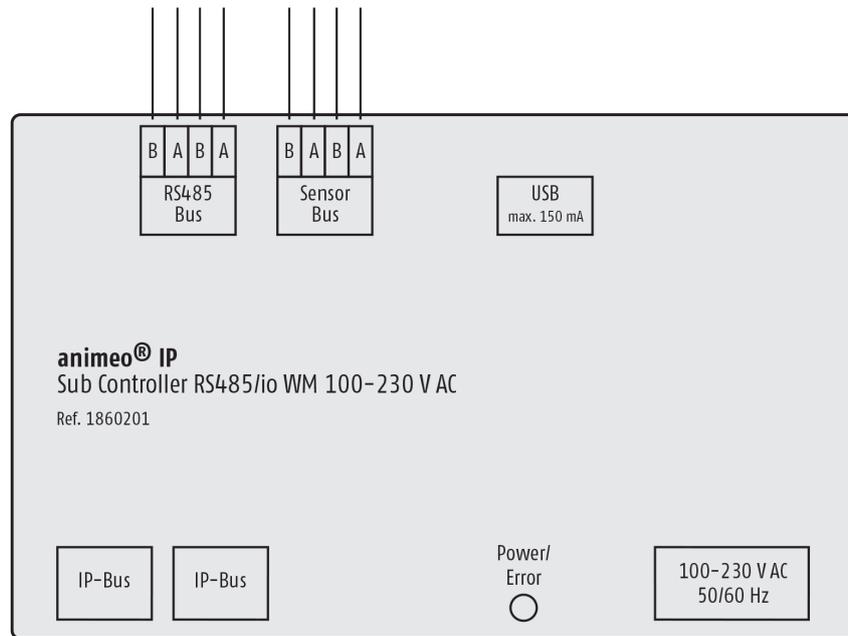
Characteristics

Supply voltage	100-230 V AC / 50/60 Hz
Max. operating current	< 0.08 A@230 V AC < 0.161 A@120 V AC
Stand-by current	< 5.2 W@230 V AC < 5.2 W@120 V AC
Operating temperature	0 °C to 45 °C
Relative humidity	85%
Material of housing	PC-ABS polycarbonate
Housing dimensions (w x h x d)	100 x 175 x 50 mm
Weight	377 g
Degree of protection	IP 20
Protection class	II
Conformity	www.somfy.com/ce

animeo IP

DecoFlex Digital Keypad

Ref. 1 811 289

Provides user with interface to control motors individually or by group.

Compatible with all Somfy Digital Network installations including animeo IP/RS485.

Installation advantages

- Single or multi-gang compatible.
- Standard Decora® size
- Powered by Somfy Digital Network Bus

Functional advantages

- Configurable button functionality preset.
- Auto-discoverable address and location.
- Interchangeable buttons to match selected preset.

Classification

CE mark
- In accordance with the EMC guideline and low voltage guideline

Pollutant
- Comply with RoHS

somfy®

8 Dry Contact Inputs with 2 Commons (see detail to right)

Power LED

SDN Connection

36.51 mm / 1 7/16''

103.87 mm / 4 1/16''

69.85 mm / 2 3/4''

38.10 mm / 1 1/2''

28.57 mm / 1 1/8'' *
in box depth

* Note:
Always allow an additional 25.40 mm of depth for wiring connectors.

Details of Inputs

Common → Button 8 → Button 7 → Button 6 → Button 5

Button 1 ← Button 2 ← Button 3 ← Button 4 ← Common
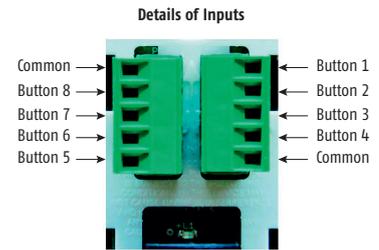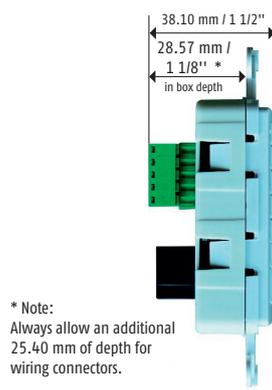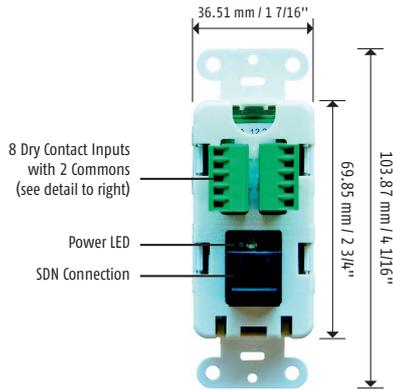
SDN connection

- ● Pin 1   SDN +
- ● Pin 2   SDN –
- ● Pin 3   NA
- ● Pin 4   SDN Power + 24 V
- ● Pin 5   SDN Power + 24 V
- ● Pin 6   NA
- ● Pin 7   SDN Power GND
- ● Pin 8   SDN Power GND & SDN GND

RJ45 "bottom" (tab down)

Pin 1   Pin 8

white orange | orange | white green | blue | white blue | green | white brown | brown
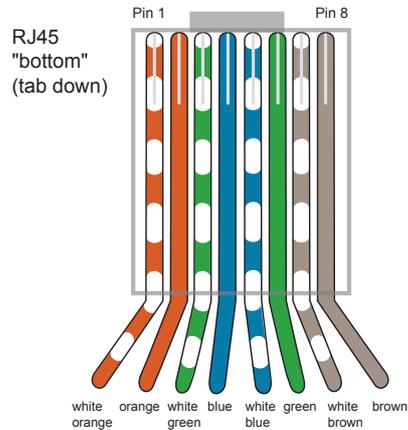
Characteristics

Supply voltage	+ 24 V DC, supplied by Somfy Digital Network Bus
Stand-by current	9 mA @ 24 V DC
Operating temperature	0 °C to 45 °C
Relative humidity	85%
Material	Face plates & buttons: Lexan 945U
Back housing	Fire retardant grade of ABS-FR 15 Na100
Overall dimensions (without wall plate)	36.51 x 69.85 x 38.10 mm
Weight	65 g
Degree of protection	IP 20 (mounted)
Protection class	II
Conformity	www.somfy.com/ce

animeo IP

BMS Interface

The BMS Interface provides communication between Building Management Systems and Somfy motorized shading systems. It is compatible with Stand-alone SDN, animeo IP/io and animeo IP/RS485 shade systems.

Ref. 1 822 558

This interface communicates through a direct connection to the building automation IP network or uses a BACnet translator box to send and receive signals. The BACnet to animeo IP provides third party communication to stand-alone SDN systems and animeo IP.

When utilizing the interface Somfy motorized system devices provide feedback and could be controlled by the BACnet network.

Installation advantages

- RJ45 connector for false prove connections.
- LED indicators providing information about the status of the product, the normal operation or a system error.

Functional advantages

- Supports up to 1 500 data points.
- Integration capabilities: Modbus, BACnet MS/TP, BACnet IP.
- Programmable through user-friendly interface.
- Auto device discovery for animeo IP.
- System control for stand-alone SDN - controls individual or motors groups:
    - Position (%) - feedback on motors only
    - Position (absolute) - feedback on motors only
    - Intermediate position
    - Up, Stop and Down control
- System control for animeo IP - controls individual or motor groups, sensors and virtual keypads:
    - Position (%) - feedback on motors only
    - Up, Stop and Down control/commands
    - Priority control
    - Sensor data - provides single direction information to BMS system

Wiring

Connection	Cables	Twisted pairs	Max. distance
Somfy Digital Network	CAT5	Required	1.000 m/ 3.300 ft
Power	Max.: 0.8 mm²/18 AWG Min.: 0.5 mm²/20 AWG	-	10 m/33 ft
Ethernet Port	RJ45 CAT5	Required	100 m/330 ft
Field	Max.: 0.8 mm²/18 AWG Min.: 0.32 mm²/22 AWG	Required	1.000 m/3.300 ft

somfy®

Field Pinout

RS 485 GND
RS 485 -
RS 485+

+ - G

FIELD

Somfy Digital Network Pinout

TX
PWR

GND   +PWR
Rx/-   - PWR
Tx/+   FRAME GND

+ RS485 ———————— + Power
- RS485 ———————— - Power
Ground

1 + RS485   8 GND
2 - RS485   7 Not Connected
3 Not Connected   6 Not Connected
4 Not Connected * 5 Not Connected
  Power Out **

SIDE VIEW

RS 485 GND
RS 485-
RS 485+

+ - G

FIELD

TOP VIEW

114.8 mm   70.1 mm

A0
A1
A2
A3
A4
A5
A6
A7

B0
B1
B2
B3
S0
S1
S2
S3

FRONT VIEW

SPL
RUN
ERR
RX
TX
PWR

BTL

GND   +PWR
Rx/-   -PWR
Tx/+   FRAME GND

91.95 mm

SIDE VIEW

128.3 mm

ETHERNET

HOST

B+ A- SG PWR+ PWR- FG

CLASS 2
9-30V
12-24V

BOTTOM VIEW

40.64 mm   23.2 mm

73.66 mm

Characteristics

BACNET INTERFACE	REF. 1822558
Supply voltage	24 V DC
Stand-by current (IEC 62301)	250 mA
Stand-by power (IEC 62301)	2,5 W
Terminals	Screw and RJ45 connectors
Operating temperature	0°C to 50°C
Relative humidity	5 - 90 % RH, non-condensing
Material of housing	ABS plastic
Housing dimensions (w x h x d)	115 x 92 x 41 mm
Weight	450 g
Degree of protection	IP20
Conformity	www.somfy.com/ce

somfy®

animeo KNX

RS485 Motor Controller WM

Ref. 1 860 286

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**
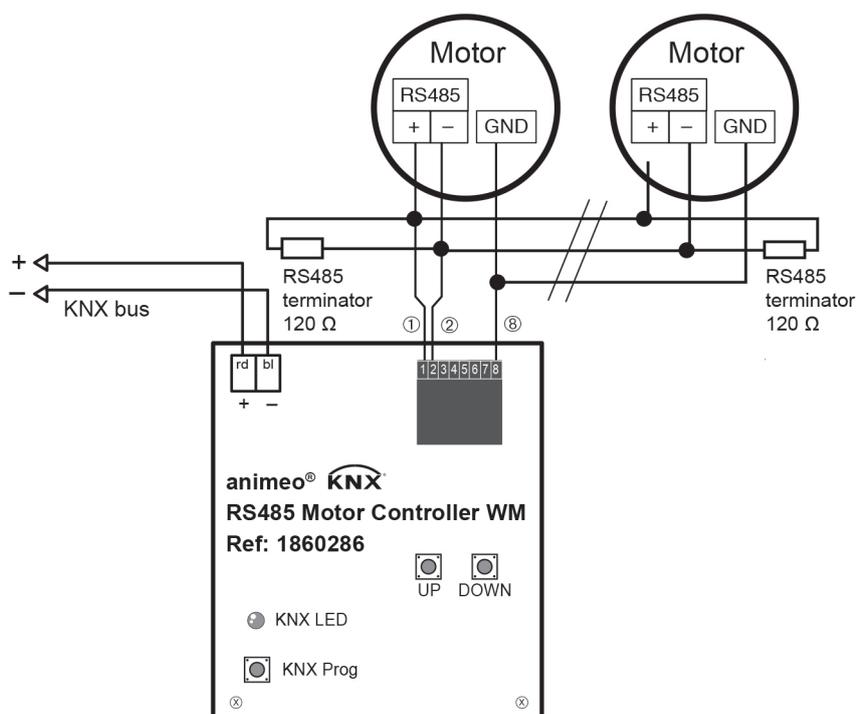
Characteristics

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. 1 860 292

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

somfy®

Somfy
animeo KNX
RTS Receiver 433 MHz WM

1860292

KNX Bus

Prog

+
–

+ -
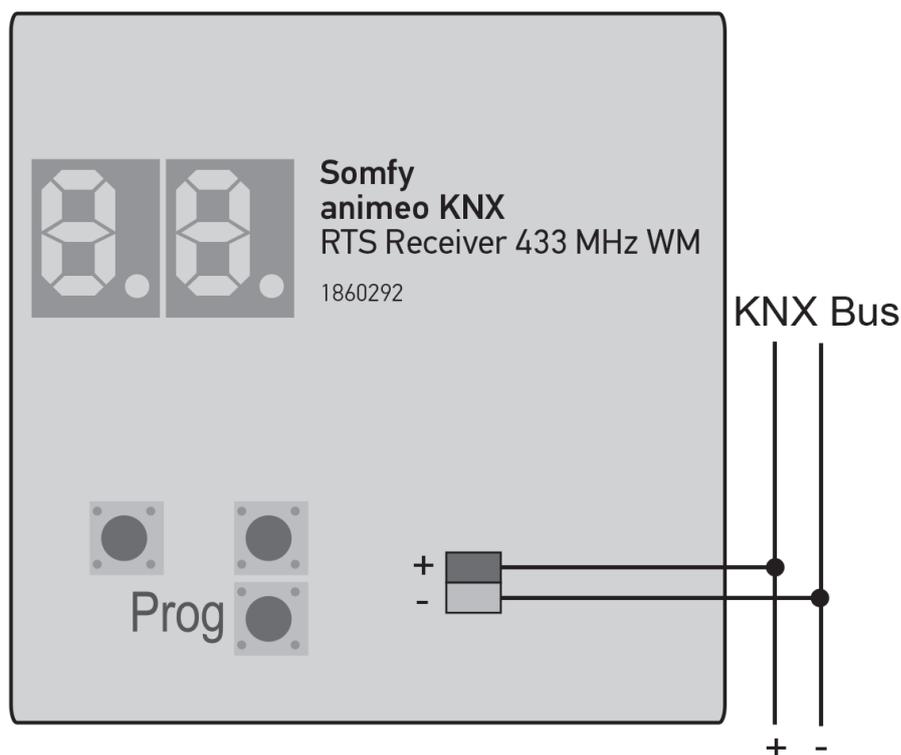
Characteristics

	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

somfy®

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. 1 870 156

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. 1 870 149

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

Ref. 1 860 093

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. 1 870 061

POWER SUPPLY ULTRA 24V DC US

Ref. 1 822 209

POWER SUPPLY ULTRA 24V DC EU

Ref. 1 822 658

24V DC POWER SUPPLY - MOTOR COMPATIBILITY RANGE

		SONESSE 30 RS485	SONESSE 50 RS485
Ref. 1 870 149	POWER 1,5 DC W/CABLE UNIV/24 V	1	NC
Ref. 1 870 156	POWER 2,7 DC 230 V/24 V	2	
Ref. 1 870 035	GPS100	2	NC
Ref. 1 860 093	ANIMEO DC POWER	3	1
Ref. 1 822 209	POWER SUPPLY ULTRA 24V DC US	NC	1
Ref. 1 822 658	POWER SUPPLY ULTRA 24V DC EU	NC	1

somfy®

RS485 Power supply

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

Ref. 9 019 003

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

3.4

Accessories

Network accessories

RS485 6X RJ45 Bridging Adaptor

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

Ref. 9 019 004

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

103.0 mm
60.0 mm
21.5 mm
39.9 mm
24 mm

6 5 4 3 2 1

2 x Ø 4.32 mm through hole with Ø 8.38 c'bore (mounting holes)

Wiring diagram

8 7 6 5 4 3 2 1   8 7 6 5 4 3 2 1   8 7 6 5 4 3 2 1   8 7 6 5 4 3 2 1
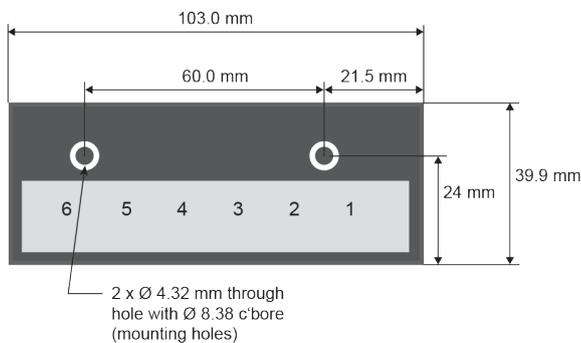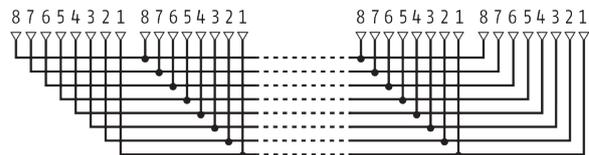
Characteristics

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

somfy®

RS485 Terminator

Ref. 9 019 005

A RS485 component designed to terminate RS485 network segment.

Installation advantages

⦿ Easy plug in RJ45

RJ45 connector

11.7 mm

7.9 mm

Entrance hole is closed
with thermoplastic resine

21,5 mm

120 Ω

1
2
3
4
5
6
7
8

Modular plug RJ45
Contacts notification

8 7 6 5   4 3 2 1

Contacts notification
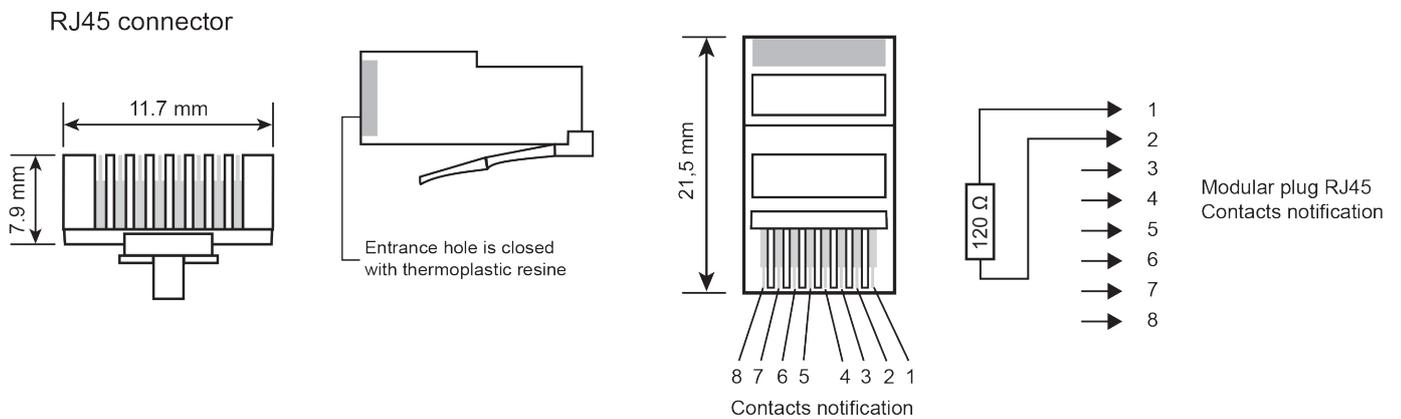
Characteristics

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

Ref. 9 014 575	CAT 5 TEE

Ref. 9 019 873	SDN CABLE FOR ULTRA DC TO SETTING TOOLS

Ref. 9 018 490	2 M CABLE RJ9 RJ45 (MALE-MALE)

Ref. 9 019 190	SONESSE 30 RS485 CABLE RJ45

Ref. 9 018 491	20 CM CABLE RJ9 RJ45 (MALE-MALE)

Ref. 9 019 191	RS485 CABLE JST II RJ45

Ref. 9 019 606 / 9 020 004	SDN CABLE FOR ULTRA DC

Ref. 9 019 004	HUB RS485 6XRJ45

Ref. 9 026095	5X RJ45 FEMALE/FEMALE ADAPTOR

somfy

Motor accessories

SONESSE 30 CROWN & DRIVE ROLLEASE 1,50"/38MM

● Sonesse 30 Crown & drive
● For Rollease
● Tube diameter 38mm

Ref. 9 013 775

SONESSE 30 CROWN & DRIVE LS 40

● Sonesse 30 Crown & drive
● Compatible with all LS 40 accessories

Ref. 9 013 776

SONESSE 30 CROWN & DRIVE HD 38MM

● Sonesse 30 Crown & drive
● For Hunter Douglas
● Tube diameter 38mm

Ref. 9 013 938

SONESSE 30 CROWN & DRIVE LOUVOLITE 40MM

● Sonesse 30 Crown & drive
● For Louvolite
● Tube diameter 40mm

Ref. 9 014 045
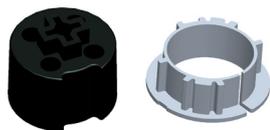
SONESSE 30 CROWN & DRIVE BLOCKER / DUOFLOOR

● Sonesse 30 Crown & drive
● For Blocker and Duofloor
●

Ref. 9 015 030

Ref. 9 014 794	**POWER CABLE JWT 2 WIRE**
Ref. 9 014 793	**DCT CABLE JWT 4 WIRE**
Ref. 9 015 842	**SONESSE RS485 CABLE**
Ref. 9 019 584	**SONESSE 30 CROWN COULISSE RTU-38**
Ref. 9 019 588	**SONESSE 30/ROLL UP WHEEL COULISSE RTU-38**

SONESSE 30 CROWN & DRIVE LOUVOLITE 45MM

● Sonesse 30 Crown & drive
● For Louvolite
● Tube diameter 45mm

Ref. 9 014 333
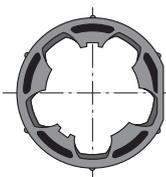
LT50 WHEEL 50×1.5 HARD CLIP
- LT50 wheel
- Tube diameter 50×1,5mm
- Hard clip

Ref. 9 410 414
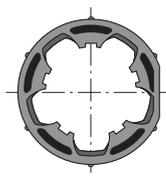
LT50 WHEEL 50×1,5 WEAK CLIP LIMIT 50NM
- LT50 wheel
- Tube diameter 50×1,5mm
- Soft clip

Ref. 9 410 415
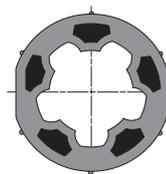
LT50 WHEEL FOR TUBE D60
- LT50 wheel
- Tube diameter 60×1,5mm
- Hard clip

Ref. 9 751 013
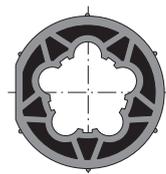
LT50 WHEEL FOR TUBE D63 ×1,5 SOFT CLIP
- LT50 wheel
- Tube diameter 63×1,5mm
- Soft clip

Ref. 9 206 041
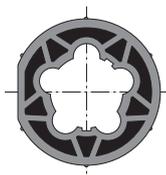
LT DRIVE WHEEL DIAM 63MM
- Drive wheel for LT
- Tube diameter 63mm
- Hard clip

Ref. 9 206 019
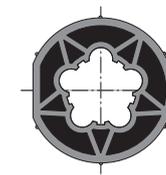
LT50 WHEEL FOR TUBE D70 ×1.5 SOFT CLIP
- LT50 wheel
- Tube diameter 70mm
- Soft clip

Ref. 9 206 026
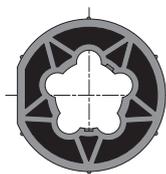
LT50 WHEEL FOR TUBE D70 ×2
- LT50
- Tube 70mm

Ref. 9 420 313
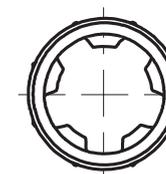
LT50 WHEEL TUBE WAREMA D50
- LT50 wheel
- For Warema
- Tube diameter 50mm

Ref. 9 707 125

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

Ref. 9 410 401
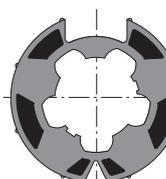
LT50 WHEEL FOR TUBE D.62 DEPRAT
- LT50 wheel
- For Deprat F2000
- Tube diameter 62mm

Ref. 9 410 302
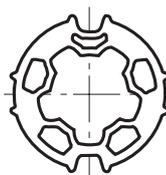
LT50 WHEEL FOR TUBE D.62
- LT50 wheel
- Tube diameter 62mm
- Hard clip

Ref. 9 751 006
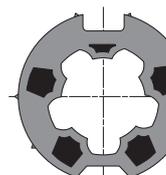
LT50 WHEEL FOR TUBE D.63 BK STO REN
- LT50 wheel
- For BK STO BEN
- Tube diameter 63mm
- Hard clip

Ref. 9 751 014

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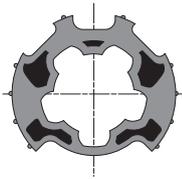
LT50 WHEEL FOR TUBE D.65 MADOPRON, SUNMASTER

- LT50 wheel
- For Madopron, Sunmaster
- Tube diameter 65mm
- Hard clip

Ref. 9 751 002
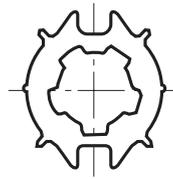
LT50 WHEEL FOR PERMA TUBES

- LT50 wheel
- For Perma Tubes

Ref. 9 751 015
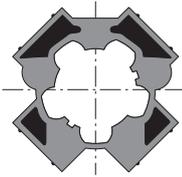
LT50 WHEEL TUBE OCTO 60

- LT50 wheel
- Octogonal tube diameter 60mm
- Hard clip

Ref. 9 410 304
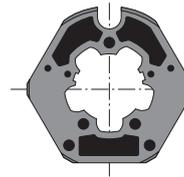
LT50 WHEEL FOR TUBE D.70 GRIESSER

- LT50 wheel for tube diameter 70
- Hard clip

Ref. 9 410 406
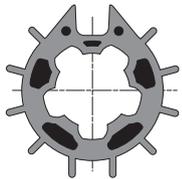
LT50 WHEEL FOR TUBE D.70 DOHN WIH GUT IMBAC D.71 ×2

- LT50 wheel
- Tube diameter 71×2mm
- Hard clip

Ref. 9 751 005
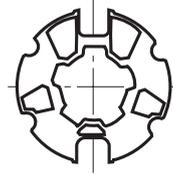
LT50 WHEEL FOR TUBE D.74

- LT50 wheel
- Tube diameter 74mm
- Hard clip

Ref. 9 751 009
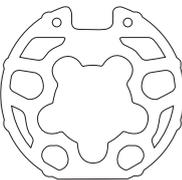
LT50 WHEEL FOR TUBE D.71 PERMA

- LT50 wheel
- For Perma
- Tube diameter 71mm
- Hard clip

Ref. 9 761 011
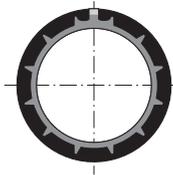
LT50 CROWN FOR TUBE D.60

- LT50 crown
- Tube diameter 60mm

Ref. 9 707 033
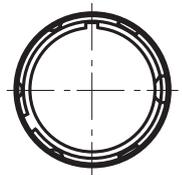
LT50 CROWN DS 63×1.5

- LT50 crown
- Tube diameter 63mm

Ref. 9 707 029
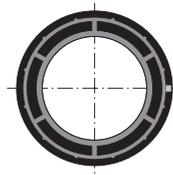
LT50 CROWN FOR TUBE D.70

- LT50 crown
- Tube diameter 70mm

Ref. 9 707 031
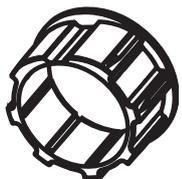
LT50 CROWN TUBE 60 GRIESSER

- LT50 crown
- For Griesser 60 soloscreen
- Tube diameter 60mm

Ref. 9 410 402
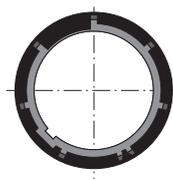
LT50 CROWN FOR TUBE D.62 F2000

- LT50 crown
- Tube diameter 62mm

Ref. 9 410 300
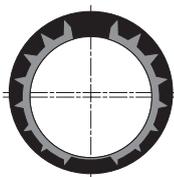
LT50 CROWN TUBE E-DS 63
- LT50 crown
- Tube diameter 63mm

Ref. 9 707 028
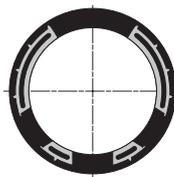
LT50 CROWN FOR TUBE MP 65
- LT50 crown
- Tube diameter 65mm

Ref. 9 707 030
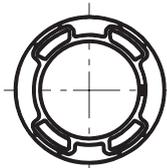
LT50 CROWN FOR PERMA 68 / 70 / 71
- LT50 crown
- For Perma
- Tube diameter 68mm, 70mm, 71mm

Ref. 9 707 036
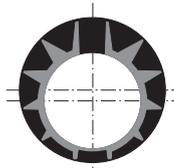
LT50 CROWN FOR DOHNER 70
- LT50 crown
- For Dohner
- Tube 70mm

Ref. 9 707 034
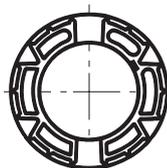
LT50 CROWN FOR DOHNER D.74
- LT50 crown
- For Dohner
- Tube diameter 74mm

Ref. 9 707 037

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. 9 002 516
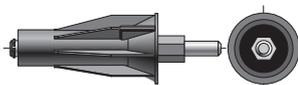
ADJUSTABLE PLUG END PIN D10
- Adjustable Plug end
- Max: LT50 50Nm
- Max with FTS system: FTS50 25/17

Ref. 9 420 800
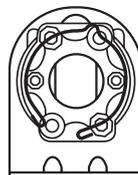
LT50 ADJUSTABLE AWNING BRACKET
- Max: 25Nm

Ref. 9 002 550
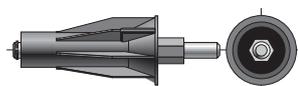
ADJUSTABLE PLUG END PIN D12
- Adjustable Plug end
- Max/ LT50 50Nm
- Max with FTS system: FTS50 25/17

Ref. 9 420 801
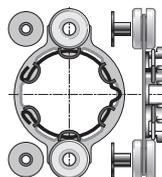
VIBRATIO FREE LT50 BRAC. 90MM
- Max: 40Nm
- Fixing entraxe: 90mm
- It has to be sold with some advices concerning the installation (i.e. treatment of the end product and its fixation)

Ref. 9 410 739
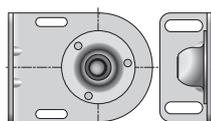
ZINCKED PLUG END BRACK. PIN 12
- For pin Ø12mm
- Max: LT50 50Nm

Ref. 9 410 633
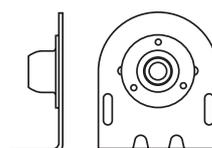
LACQUERED PLUG END BRACKET FOR PIN 12
- For pin Ø12mm
- Max: LT50 50Nm

Ref. 9 410 634

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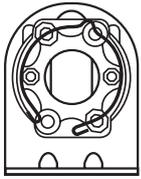
ZINKED LT50 BRACKET

Ref. 9 416 51
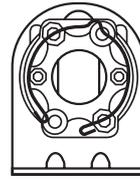
WHITE LQ LT50 BRACKET

Ref. 9 410 652
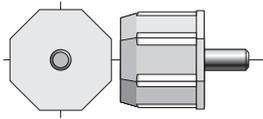
OCTOGONAL PLUG END FOR DEPRAT
- For pin Ø 8mm
- Max: 8Nm

Ref. 9 137 018
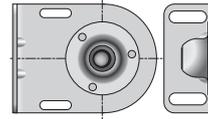
ZINCKED PLUG END BRACK. PIN 10
- For pin Ø12mm
- Max: LT50 50Nm

Ref. 9 4106 35
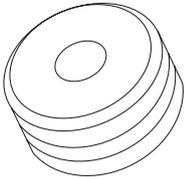
ANTIVIRATION WASHER
- Max torque: 85Nm to be used with ref. 9 127 808

Ref. 9 410 735
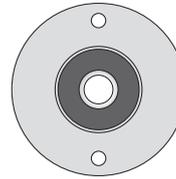
VIBRATION FREE PLUG END BRACKET
- Max: 8Nm

Ref. 9 701 310
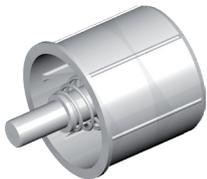
TELESCOPIC END CAP D10 FOR SONESSE 50
- Max: 4Nm
- Rn Ø10mm

Ref. 9 013 592

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

Ref. 9 013 593

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

Ref. 9 018 455

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

Ref. 9 016 630

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

Ref. 9 016 628
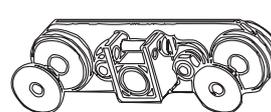
VIBRA. FREE PLU END BRAC. 90MM
- Max: LT50 40Nm
- Fixing entraxe: 90mm
- Compatible with the plug ends with a pin Ø 12
- It has to be sold with some advices concerning the installation (i.e. treatment of the end product and its fixation)

Ref. 9 410 740

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

Ref. 9 018 228

SONESSE 50 UQ UNIVERSAL END CAP
- 10mm shaft

Ref : 9019716

SONESSE 50 UQ UNIVERSAL END CAP
- 12mm shaft

Ref. 9019717

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Curtains

PULLEY GA

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

Ref. 1 780 897

RAIL 5M BY 4 GA

- 5 m long track aluminium profile
- Color: White
- Delivered in a box with 4 rails

Ref. 1 781 379

DRIVE PULLEY GA

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

Ref. 1 780 945

10MM PRELUB BELT 55M 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 heavy duty track configurations & shape including ripple curtain to the maximum weight capacity of somfy curtain motors

Ref. 1 782 084

RAIL 16FT BY 6 GA

- 16 ft long track aluminium profile
- Color: White
- Delivered in a box with 6 rails

Ref. 9 019 463
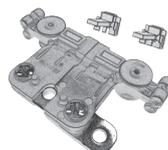
HEAVY DUTY MASTER CARRIER GA

- Heavy Duty & quiet one piece non articulating master carrier
- Can be used on heavy duty track configurations & shape including ripple curtain to the mawimum weight capacity of somfy curtain motors

Ref. 1 781 344

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. 1 782 562

MEDIUM DUTY BELT 100M/ROLL

- Roll of 100 m reel, 10 mm black pre-lubed belt
- Approx. 2 times the length of the track is necessary
- Can be used on maximum 35kg curtain weight 6 meters straight track

Ref. 1 782 783

SMALL PULLEY GA

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

Ref. 1 782 318

MEDIUM DUTY MASTER CARRIER GA

- Medium Duty master carrier
- Can be used on maximum 35kg curtain weight
- 6 meters straight track

Ref. 1 782 783

Curtains

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. 1 780 892

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. 1 781 415

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. 1 781 416

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 whenaddtional blackout is needed

Ref. 1 781 417

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

Ref. 1 780 895

GLYSTRO ADAPTER PLATE

- Plate for replacement of a Glystro motor by a Glydea 60e motor. After sale

Ref. 1 782 106

Curtains

MEDIUM DUTY MASTER CARRIER GA W/SMALL ARM

- Medium Duty master carrier with small arm
- Can be used on maximum 35kg curtain weight
- 6 meters straight track.
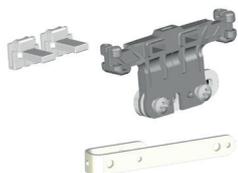
Ref. 1 782 786

**MEDIUM DUTY MASTER CARRIER GA W/ OVERLAP ARM**

- Medium Duty master carrier with small arm
- Can be used on maximum 35kg curtain weight
- 6 meters straight track

Ref. 1 782 785

MEDIUM DUTY MASTER CARRIER GA W/RIPPLE UNDERLAP ARM

- Medium Duty master carrier with ripple under lap arm for classic & ripple solutions
- Can be used on maximum 35kg curtain weight
- 6 meters straight track.

Ref. 1 782 787

MEDIUM DUTY MASTER CARRIER GA W/RIPPLE UNDERLAP ARM
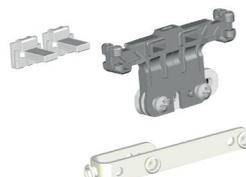
- Medium Duty master carrier with
- ripple under lap arm for classic & ripple solutions.
- Can be used on maximum 35kg curtain weight
- 6 meters straight track.

Ref. 1 782 788

SILENT ACCESSORIES

SILENT MASTER CARRIER

Ref. 1 782 922

SILENT ROTATING EYE RUNNER

Ref. 1 782 921

Curtains

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. 1 780 901

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. 1 780 902
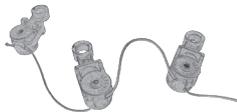
RIPPLE RUNNER 2 3/8 GA

- 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 19/m

Ref. 1 780 903

RIPPLE MOTOR HOOK GA

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

Ref. 1 782 084

RIPPLE MOTOR HOOK GREY GA

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

Ref. 1 780 947

RIPPLE STRAIGHT ARM

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

Ref. 1 780 946

RIPPLE OVERLAP ARM KIT

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

Ref. 1 780 947

RIPPLEFOLD BUTT ARMS KIT

- Steel arms kit to be used with master carrier GA on two way tracks with butt arms
- 2 kits are needed for a two way tracks

Ref. 1 780 953

RIPPLE SNAP TAPE

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

Ref. 1 782 301

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. 1 782 320

Curtains

SMALL RIPPLE OVERLAP 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. 1 782 321

RIPPLE ONE WAY BUTT ARM GA
- Steel arms kit

Ref. 1 780 902
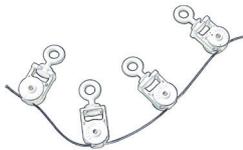
ROTATING RIPPLE EYLET RUNNER 60 MM GA
- Runner mounted on wheels for 80% fullness ripple curtains. Supplied in a roll of 500 runners. Cord is already snaped on the runner body. 500 rottating runner eylet supplied in a different bag
- No need to use snap tape

Ref. 1 782 310

BRACKETS

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. 1 780 906

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. 1 780 907

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 = xx g

Ref. 1 782 789

Curtains

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. 1 780 909

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. 1 780 910

HEAVY DUTY RAIL JOINT GA
- Stronger piece to link two rails

Ref. 1 7823 16

SPARE PARTS, ELECTRICAL ACCESSORIES, TOOLS

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

Ref. 1 780 908

CUSHION FOR BELT GA
- Rubber part to be positionned in the assembled track to prevent the belt to get off splitted track transported folded

Ref. 1 780 955

ROTATING RUNNER EYLET GA
- Standard runner eylet spare parts

Ref. 1 781 913

RIPPLE PENDANT GA
- Ripple runner pendant

Ref. 1 780 948

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

Ref. 1 780 954

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

Ref. 1 780 898

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Curtains

SPARE PARTS, ELECTRICAL ACCESSORIES, TOOLS

PULLEY COVER GREY GA
- Spare pulley cover
- Color: Grey
- Unit weight: 9.5 g

Ref. 1 782 583

RJ9 / RJ12 ADAPTER
- Plastic adapter needed to adapt the RJ9 plug of the IR3 sensor in the RJ12 motor socket

Ref. 9 014 068

MOTOR BOTTOM COVER GA
- Spare motor bottom

Ref. 9 015 579

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

Ref. 9 015 443

BENT RAILS FROM LOGISTICS
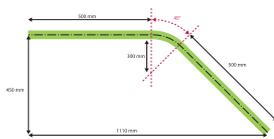
GA BENT RAIL
- 750×750mm
- R: 300 mm
- A: 45°

Ref. 1 782 258
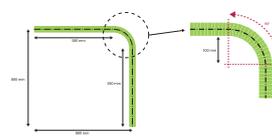
GA BENT RAIL
- 900×900mm
- R: 300 mm
- A: 90°

Ref. 1 782 259

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 9 017 142

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

USB/SDN interface

Purpose of this tool

⊙ Fast and easy plugging tool for any SDN devices SDN protocol directly
embed on the cable

Where to get it ?

⊙ Available at LI: end 2020
⊙ Ref coming soon

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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
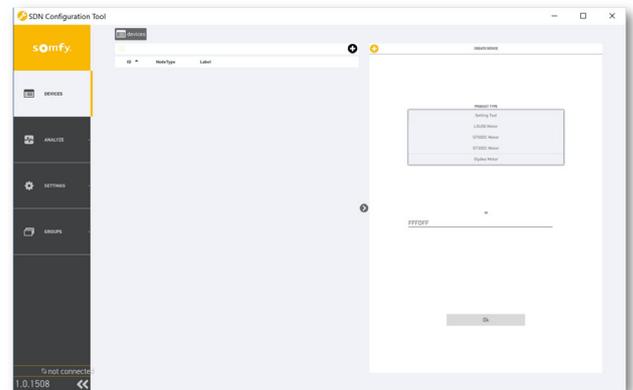
Where to get it ?

- 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.
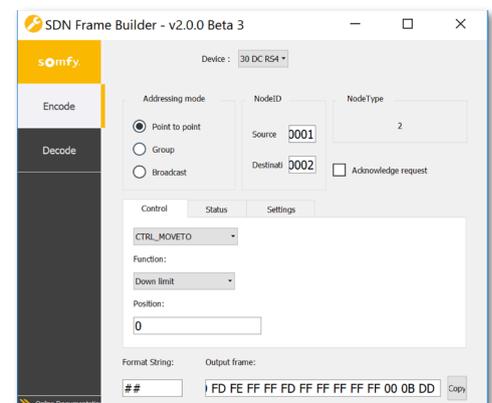
Where to get it ?

- 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 webside: www.somfy.com/projects/downloads

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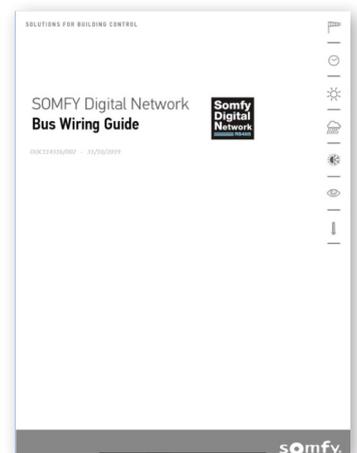
Part list

Shade and curtain motorisation

SONESSE 30 RS485

	Description
Ref. 1 000 658	Sonesse 30 RS485 2/28

LT 50 RS485

	Description
Ref. 1002513	505S6 LT RS485 5/38 SASO VVF3M UNIT
Ref. 1002514	512S6 LT RS485 12/38 SASO VVF3M UNI
Ref. 1002517	LT 50 RS485 6/32 VVF3M CCC
Ref. 1002518	LT 50 RS485 15/32 VVF3M CCC
Ref. 1002519	LT 50 RS485 6/17 RRF3M CCC
Ref. 1002520	LT 50 RS485 15/17 RRF3M CCC
Ref. 1002521	LT 50 RS485 35/17 RRF3M CCC
Ref. 1002524	506S2 LT 50 RS485 6/38 VVF3M CCC
Ref. 1002525	515S2 LT 50 RS485 15/38 VVF3M CCC

SONESSE 50 RS485

	Description
Ref. 1002286	506S2 Sonesse RS485 6/32 SJTW
Ref. 1002287	512S2 Sonesse RS485 12/32 SJTW
Ref. 1002382	Sonesse 50 RS485 6/28 VVF3M UN
Ref. 1002383	Sonesse 50 RS485 12/28 VVF3M UN
Ref. 1002384	505S3 Sonesse RS485 5/28-32 BAR
Ref. 1002385	510S3 Sonesse RS485 10/28-32BAR
Ref. 1002499	Sonesse 50 RS485 6/17 VVF3M UN
Ref. 1002500	Sonesse 50 RS485 15/17 VVF3M UN
Ref. 1002505	505S6 Sonesse RS485 5/32 VVF3M KC
Ref. 1002506	510S6 Sonesse RS485 10/32 VVF3M KC
Ref. 1002511	505S6 Sonesse RS485 5/32 VVF3M
Ref. 1002512	510S6 Sonesse RS485 10/32 VVF3M
Ref. 1002515	505S6 Sonesse RS485 5/32 VVF3M SASO
Ref. 1002516	510S6 Sonesse RS485 10/32 VVF3M SASO
Ref. 1002522	Sonesse 50 RS485 6/28 VVF3M CCC
Ref. 1002523	Sonesse 50RS485 12/28 VVF3M CCC
Ref. 1002526	506S2 Sonesse RS485 6/32 VVF3M
Ref. 1002527	512S2 Sonesse RS485 12/32 VVF3M
Ref. 1003048	Sonesse ULTRA 50 RS485 6/20 VVF3M UNIT

SONESSE 50 ULTRA RS485 AC

	Description
Ref. 1002566	506A2 Sonesse ULTRA RS485 6/24 SJTW 3M 3C

SONESSE 50 ULTRA RS485 DC

	Description
Ref. 1134022	504A8 Sonesse ULTRA DC RS485 4/25

Shade and curtain motorisation

	Commercial name	Distribution	
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

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Contacts

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PRODUCT SPECIFIER: Etienne Bruet

COMMUNICATION: Sandrine Da Silva

TRAINING: Franck Brozille & Christophe Gaillot

TECHNICAL SUPPORT & QUALITY CLAIMS: Jean-Paul Paccard & Christophe Gaillot

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About Somfy

Somfy's leading smart management solutions for homes and buildings have been improving people's daily lives for over 50 years. Developed with comfort, ease of use, security and sustainability in mind, our innovations automate and connect rolling shutters, curtains and blinds, gates and garage doors, lighting and heating, alarm systems and more. We are committed to creating useful solutions that are accessible to all, designed for today and beyond.

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