Intelligent controls

for dynamic solar shading in commercial buildings | Product guide 2023

somfy®


EY

Product Guide 2023

Solutions for commercial buildings

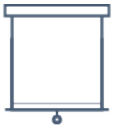
Somfy solutions for greater comfort and energy savings

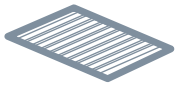
Somfy solutions offer the capability to manage shading in all types of buildings thanks to innovative products (motors, façade management systems and local controls).
Find a Somfy solution for any project - compatible with all sunshading and opening devices.


External venetian blinds


Roller shutters


External vertical screens


Projection screens


Horizontal blinds


Interior venetian blinds


Window openers


Interior vertical screens

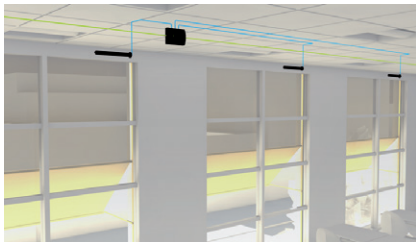
Somfy solutions include

1. animeo intelligent building controls

Façade management systems enable the control of all or part of solar shading and windows via a PC or a dedicated control system. Motors and automation communicate with each other via a proprietary Somfy bus (Soliris, IB+, IP) or market standards KNX.


animeo Motor Controller


BACnet™*
animeo TouchBuco



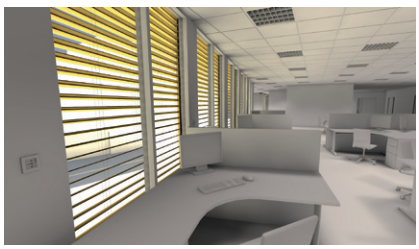
2. Motors

Whatever the end product (indoor or outdoor shading devices, roller shutters, projection screens, etc.), Somfy's motorization will always meet its exact specification.


Somfy tubular motor


Motor for exterior venetian blinds


Somfy tubular motor



3. Local commands

Depending on the number of blinds and the layout of the room, there will always be a specific Somfy unit available with the required number of channels.
The various technologies (radio, wired, digital, etc.) offer a number of benefits that are tailored to each type of building (hospital, school, office, etc.).


Web Remote Control


Situo 5 io

Smoove IB

* BACnet™ is a trademark of ASHRAE

Solutions for commercial buildings

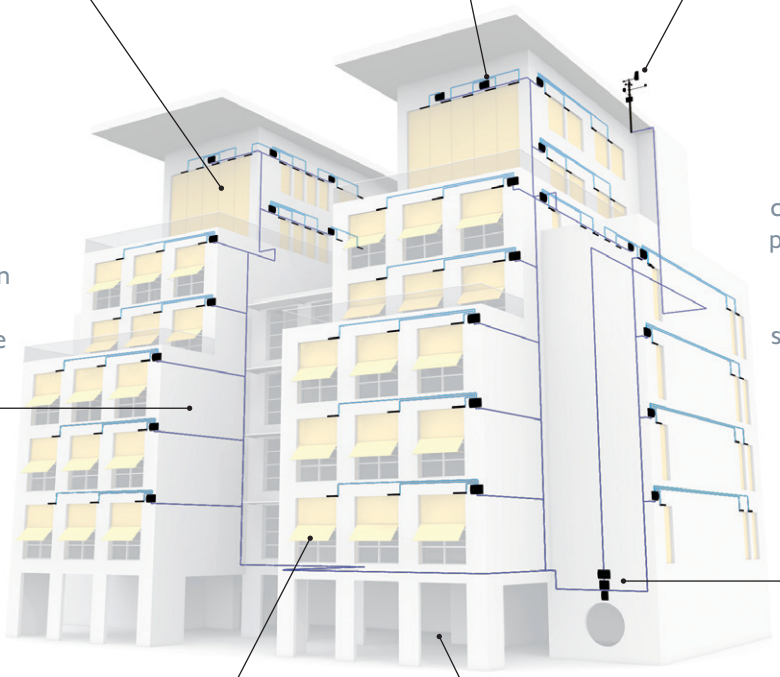
General system architecture

Somfy products installed in a typical building equipped with exterior blinds.

Motor Controller range for any type of motors (high/low voltage), compatible with the Somfy proprietary bus (Soliris, IB+) or open protocols (BACnet, KNX).

Motors

Weather station sends weather data information to the Building Controllers.



The bus line can be Somfy proprietary (Soliris, IB+) or open (BACnet, KNX) and allows simple or bi-directional communication between the various products connected to the bus line.

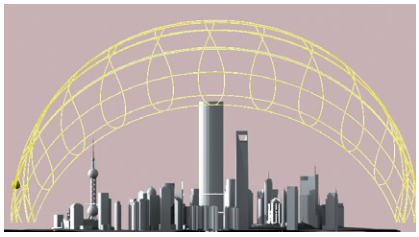
Building Controllers compatible with Somfy proprietary bus (IB+) or open protocols (KNX, BACnet) to control small to large buildings.

Local commands

Programming and configuration interfaces

Solutions for commercial buildings

animeo: why and what for?



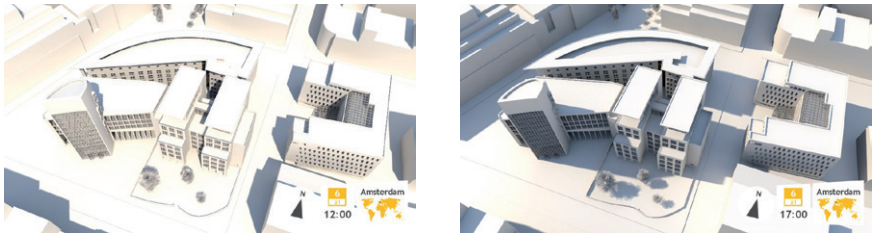
The sun's path

With animeo, solar protection constantly adapts to the exterior environment and occupants' needs inside the building.

Because throughout the day the azimuth and elevation of the sun as well as the occupants' activities are constantly changing, the animeo range of intelligent controls enables the movement of blinds to be controlled accordingly.

The main elements to be taken into account are:

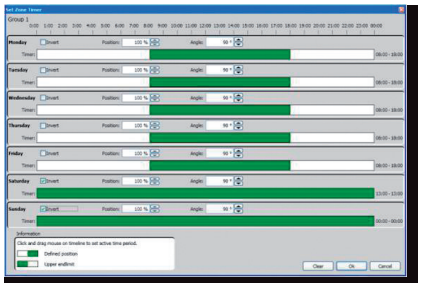
1. The geolocation of the building



Sun and shadow impacting a city at different times of the day

Each building is unique, both in terms of its size, geographical location, environment or architecture. The sun's path, the shadow generated by surrounding buildings or the building shape itself have an impact on its energy needs. Taking these into consideration is essential in the choice of solar protection and control strategy.

2. User needs



Zone Timer in animeo IB+ and KNX software

Each building is designed for a specific purpose (office, school, hospital, etc.) with different occupancy periods: a school will be closed for certain weeks, a hospital will always be occupied or blind management in an office which is not occupied during the weekend.
It is therefore essential to enhance the building's energy performance and meet occupants' needs.

3. The definition of zones

A zone can be a:

Façade

Floor

Window

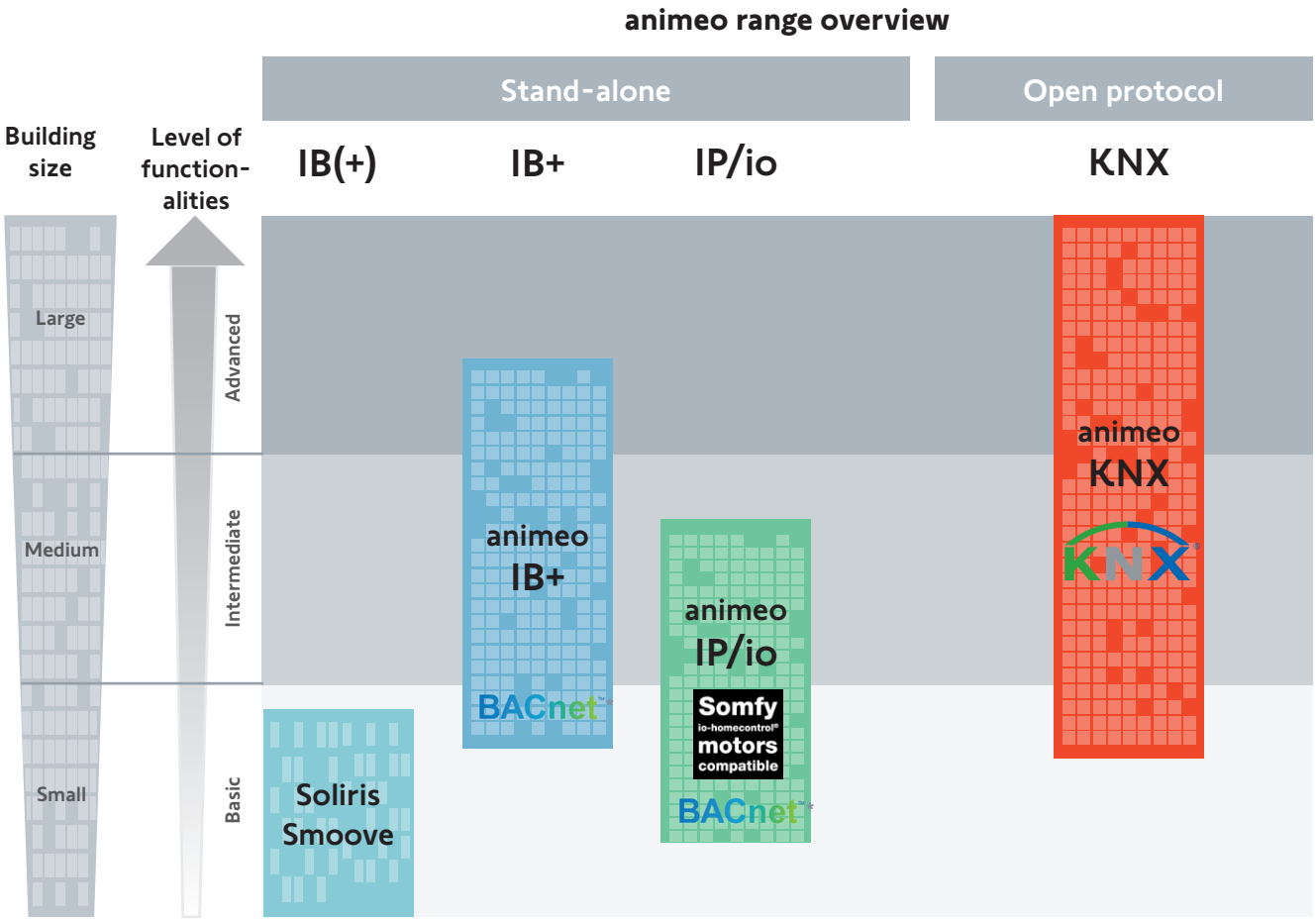
Within the same zone, all blinds behave the same way. Smaller zones enable more efficient and precise operation.

Solutions for commercial buildings

animeo: a range of Somfy controls for buildings

animeo is a range of intelligent controls to manage blinds and shutters within commercial buildings, designed to adapt to any façade configuration. By optimizing the management of sun, shade and air in buildings, animeo solutions actively enhance occupants' well-being while improving the building's energy performance.

animeo: compatible with all sun shading and opening devices



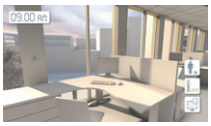
Number of motors	1 - 100	1 - 6400	0 - 200	> 6400
Number of zones	1	no limit	no limit	> 16

* BACnet™ is a trademark of ASHRAE

Solutions for commercial buildings

Functions offered by the animeo range

Depending on the chosen animeo solution, many functions and algorithms are available to enhance visual comfort and energy savings.

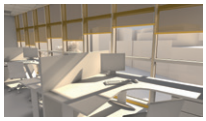
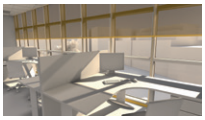
Functions for visual comfort and savings with artificial lighting		How does it work?	animeo solution compatibility
My sun position	  The blinds are automatically down in direct glare, and up if there is no sun. The function applies at a building, façade, zone or floor level.	By programmable weekly timers or commands from sun sensors.	**Soliris IB+ IP KNX**
Sun tracking	  To maximise the amount of light in the room, still avoiding direct glare (group of windows). Occupants' visual comfort is increased, since they can enjoy a view through as much of the window as possible.	Algorithm embedded in Somfy animeo softwares: function enabled, depending on the building precise geolocalisation.	**IB+ IP KNX**
Shadow tracking	  My sun position or sun tracking functions managed at a window or group level. This function adjusts the movement of the sun protection according to the shadow projected on the window. The need for artificial lighting is reduced.	The shadow function is based on a precise building model including surrounding buildings that could project shadow onto the façades.	**KNX**
At night	 All blinds down to avoid discomfort linked to exterior lighting (direct spotlights lighting up the façades of some office buildings).	By programmable timer.	**IB+ IP KNX Soliris**

Functions for increased building energy performance		How does it work?	animeo solution compatibility
Block heat	 To keep the heat outside, blinds are automatically down when the sun is detected. The function applies at building, façade, zone or floor level.	Commands from sun sensors linked to indoor and outdoor temperature sensors.	**IB+ IP KNX**
Solar heating	 Blinds are automatically up when the weather is sunny and when the inside temperature is lower than the outside temperature. Natural energy is used to heat the building.		
Maintain heat	 Blinds are automatically down to avoid heat loss and reduce heating costs.		

Solutions for commercial buildings

Maintenance functions: **Protection of solar shading or people** (building safety)		How does it work?	animeo solution compatibility
Zone control and lock	 All blinds are up and occupants' local commands are disabled to ensure the cleaners' safety. The function applies at a zone or building level.	Central command, sent from the Building Controller or key switch.	**IB+** **IP** **KNX** **Soliris**
Links to fire alarm	All blinds go up in the event of fire (building level).	Central command sent from Building Controller.	
Exterior shades protection	 Wind or rain are detected at building or zone level. All blinds are up and occupants local commands are disabled to ensure blinds are protected.	Wind sensors, rain sensor detection: the message is sent by the Building Controller	
Blind synergy	When interior blinds, exterior blinds or window openers work together, the level of priorities can be programmed.	With the Building Controller.	**IB+**

Maintenance functions: **Advanced functions/links to BMS**		How does it work?	animeo solution compatibility
Status of motor position	Motor feedback during movement and/or with reaching the up/down end-limits or the intermediate position.	Displayed on computer, using specific software (BMS).	**IP** **KNX**
Remote access	Remote access to blinds for facility managers.	Via Remote Service Module	**IB+** **IP** **KNX**

Functions to enhance the façade's appearance or indoor space		How does it work?	animeo solution compatibility
Blind alignment	  The blinds align to the exact position in order to provide perfect room/façade aesthetics.	With RS485, io or Encoder motors and specific controls: displayed on computer using specific software (BMS).	**IB+** **IP** **KNX**

Functions to enhance user comfort		How does it work?	animeo solution compatibility
Manual override	Occupants can always control their own blinds using a wall switch, a remote control or a web remote in order to avoid feeling a loss of control due to the automated system.	With a RTS card plugged into the Motor Controller by local switch or web remote.	**Soliris** **IB+** **IP** **KNX**

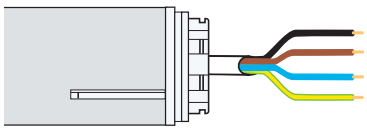
Solutions for commercial buildings

animeo solutions are compatible with a large range of motors. The choice of controllers depends on the motor type.

AC motors with typical applications

Asynchronous motor (AC)

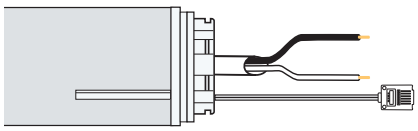
The cost-effective standard solution. Especially used outside and for applications requiring higher torque.



Electrical connection	L-up, L-down, N, PE
Torque of shading system	4-120 Nm
Energy by window motors	150-400 N
Diameter (not for window motors)	40-60 mm
Voltage	230 V AC
Current consumption	0.5-3.15 A
Installation comments	–
Applications	For roller shutters, screens, venetian blinds, awnings, large slats, windows and Fabric Tension Systems (FTS).

Asynchronous motor with integrated increment encoder (AC-E)

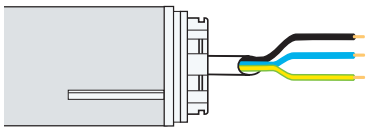
The increment encoder in the motor measures the exact position and sends a message to the controller. Used in all situations where precise positioning is required.



Electrical connection	L, N, PE + extra cable with RS 485
Torque	5-35 Nm
Diameter	50 mm
Voltage	230 V AC
Current consumption	0.75-1.2 A
Installation comments	Specific control!
Applications	For roller shutters and screens in situations where exact positioning and consistent high precision is required. Applicable for blinds greater than three meters in height.

Asynchronous motor with integrated radio receiver (AC radio)

Control of the motor is via a radio transmitter. There is no wiring between the motor and the point of operation. Motors can be connected in parallel. Mainly used in the residential and small purpose-buildings area.



Electrical connection	L, N, PE
Torque	6-120 Nm
Diameter	50-60 mm
Voltage	230 V AC
Current consumption	0.5- 3.15 A
Installation comments	Max. recommended radio distance: 20 m with up to 2 cement walls.
Applications	For roller shutters, screens and awnings.

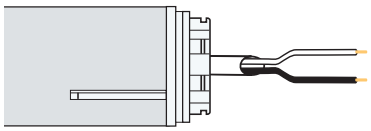
Solutions for commercial buildings

animeo® COMPATIBLE

DC motor with typical applications

Direct currenct motor (DC)

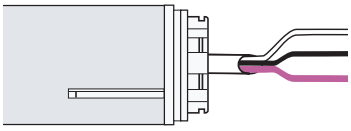
For interior venetian blinds: motors with smaller dimensions and lower torque.
For windows: motors operated with safety low voltage.



Electrical connection	+, -
Torque of shading system	0.5—1.2 Nm
Energy with window motor	150—400 N
Diameter (not for window motors)	25—35 mm
Voltage	24 V DC
Current consumption; shading systems	0.3—1 A
Current consumption; window motors	0.3—2.5 A
Installation comments	Maximum recommended distance between motor and controller: 20 m (voltage loss).
Applications	For interior shading or for window motors.

Direct current motor with integrated Incremental encoder (DC-E)

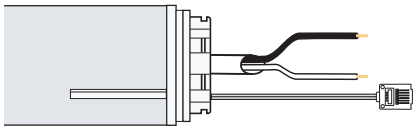
The incremental encoder in the motor measures the exact position and sends a corresponding message to the control unit. Used in all situations where precise positioning is needed.



Electrical connection	+, -, cable for encoder
Torque of shading system	0.5—1.2 Nm
Diameter	25 mm
Voltage	24 V DC
Current consumption	0.3—1 A
Installation comments	Specific control! Maximum recommended distance between motor and controller: 20 m (voltage loss).
Applications	For interior blinds

Direct current motor with integratedIncremental encoder (DC-E)

The incremental encoder in the motor measures the exact position and sends a corresponding message to the control unit. Used in all situations where precise positioning is needed.



Electrical connection	+, -, and extra cable with RS485
Torque of shading system	2 Nm
Diameter	30 mm
Voltage	24 V DC
Current consumption	0,5 - 1,5 A
Installation comments	Specific control!
Applications	For interior blinds, if it's on exact positioning. Can be used in roller blinds which are higher than 3 m.

Solutions for commercial buildings

Somfy solutions are compatible with most technologies on the market

Depending on the installation, various Somfy user interfaces are available:

Wired technologies

WT

Wired Technology (Somfy standard proprietary wired control). An ideal solution for new buildings.

KNX

World standard for home and building control which is suitable for use in any application domain.

BACnet

Networking protocol specifically created to address various functions within buildings (blind management, lighting, HVAC ...).

Wireless technologies

Radio Technology Somfy®

With over 3 million installations throughout the world, for local control RTS has become the standard for secure radio technology. Installations can be upgraded as new controls are added.

io-homecontrol®

Highly secure wireless technology included in a wide range of home and building equipment, making it fully compatible, reliable and secure.

Digital technologies

Somfy Digital Network

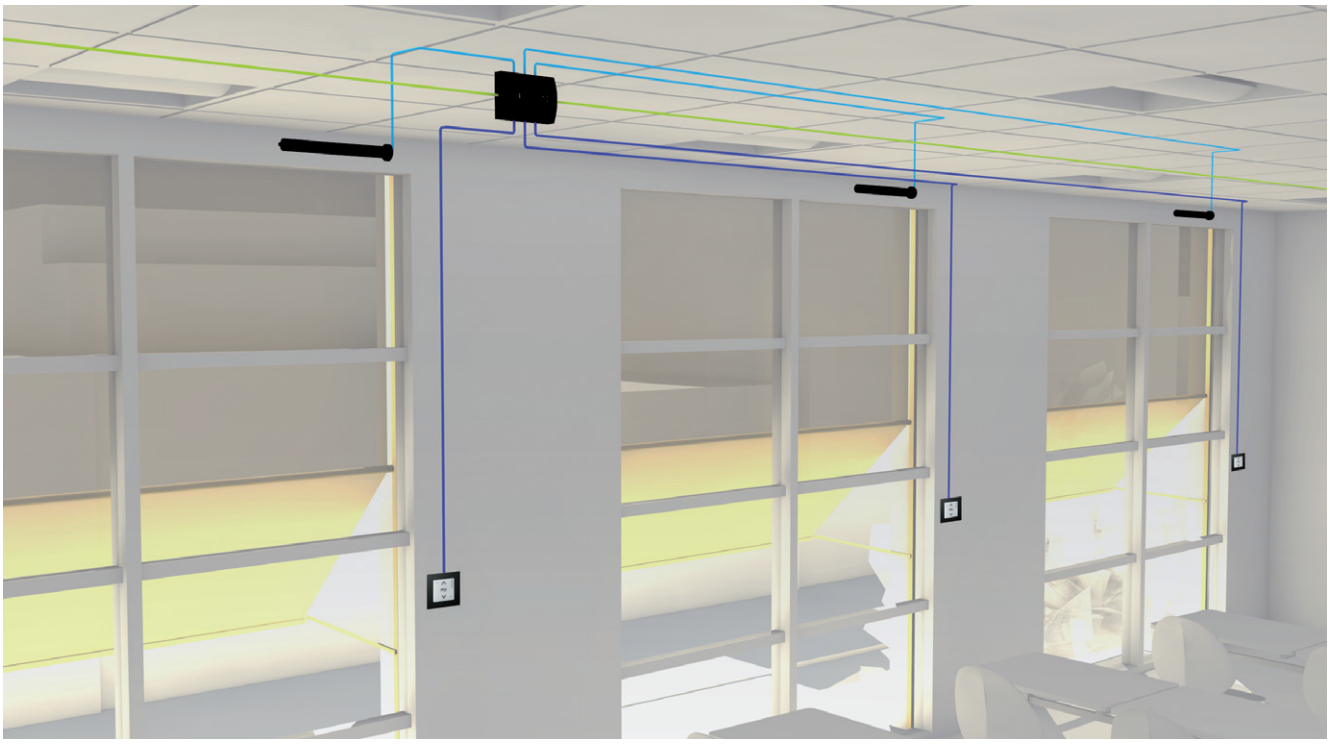
Wired protocol used by Somfy with its own digital protocol, also called "RS485". Digital controls provide the convenience of a multi-application and scalable system.

* BACnet™ is a trademark of ASHRAE

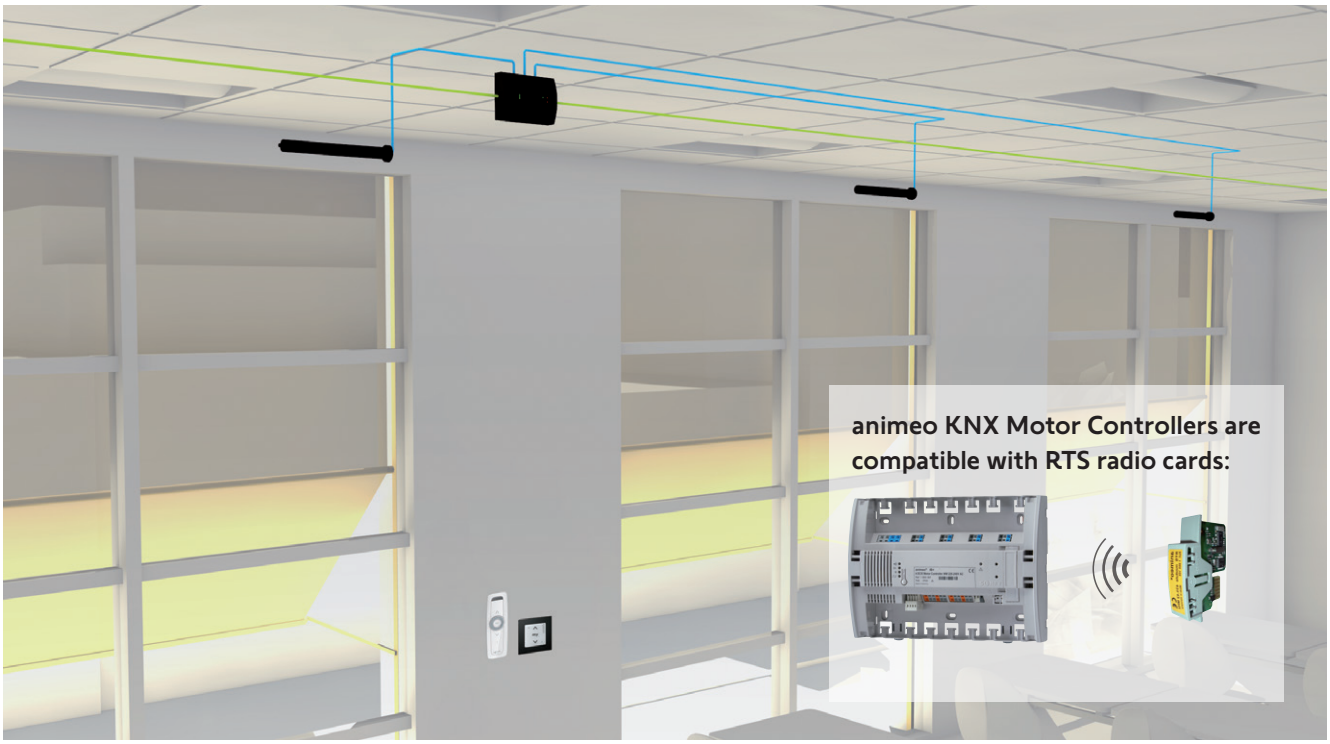
Solutions for commercial buildings

Typical animeo IB+, KNX and BACnet installation

AC Motor Controller and Smoove IB for local instruction



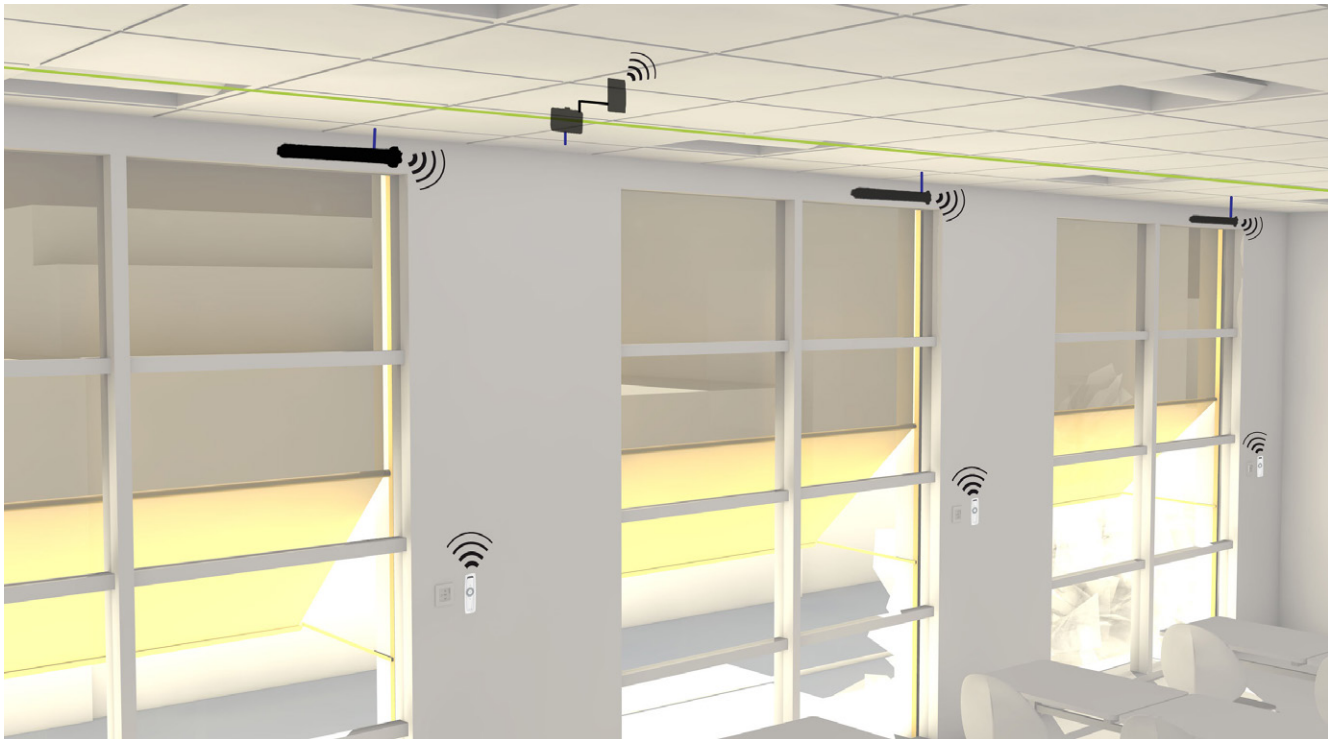
Motor Controller with Situo Variation RTS/Smoove RTS remote controls



Solutions for commercial buildings

Typical animeo IP/io installation

USB io Transceiver to integrate motors and local controls



Solutions for commercial buildings

Selection of local controls for the animeo range

Somfy solutions include a wide range of fixed or remote local controls according to building usage (public/private). All local controls dedicated to the different animeo solutions (Soliris Smoove, IB+, IP, KNX) can be found in the relevant chapters.

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2032)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

• Pure shine	Ref. 1 810 881
• Black shine	Ref. 1 810 882
• Silver shine	Ref. 1 810 883
Adapter disc for other switching programs	Ref. 9 016 911

Smoove frames

Smoove frames

• Pure	Ref. 9 015 268
• Silver Mattt	Ref. 9 015 565
• Black	Ref. 9 015 293
• Double frame pure	Ref. 9 015 238

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability. Operation via UP, DOWN and STOP buttons is possible at any time.

Smoove IB Origin	Ref. 1 811 272

Smoove Origin RTS

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via UP, DOWN and STOP buttons is possible at any time.

Smoove Origin RTS	Ref. 1 810 880

Solutions for commercial buildings

Selection guide for sensors associated with our solutions

	Wind			Temperature	
	Ref. 9 013 807	Ref. 9 001 608	Ref. 9101479	Ref. 9 001 611	Ref. 9 008 044
	Wind Direction Sensor 	Wind Sensor 	Eolis Sensor 	Outside Temperature Sensor 	Inside Temperature Sensor 
Soliris Smoove		OK (1)	OK (1)		
animeo **IB+**	OK (2)	OK (2)		OK (2)	OK (3)
animeo **IP/io**	OK (2)	OK (2)		OK (2)	OK (3)
animeo **KNX**	OK (2)	OK (6)		OK (2)	

(1) Directly connected to Soliris Smoove.
(2) Directly connected to the Outside sensor box.
(3) Directly connected to the Inside sensor box.
(4) Directly connected to the Building Controllers.

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Sun		Rain		Combined sensors/Sensor Station					
Ref. 9 154 043	Ref. 9 154 217	Ref. 9 016 344	Ref. 9 016 345	Ref. 9 101 474 9 101 475	Ref. 1 870 932	Ref. 1 860 306	Ref. 9 013 726	Ref. 9 013 727	Ref. 1 860 307
Kit Sun Sensor and bracket 	Sun Sensor (without bracket) 	Rain Sensor Ondeis 24 V DC 	Rain Sensor Ondeis 230 V 	Soliris sensor 	Weather Station KNX 	Weather Station M8 	Sensor Station 	Sensor Station extended 	Weather Station M13 
	OK (1)	OK (1)	OK (1)	OK (1)					
OK (2)		OK (2)				OK (4)	OK (4)	OK (4)	OK (4)
OK (2)		OK (2)				OK (4)	OK (4)	OK (4)	OK (4)
OK (2)		OK (2)			OK	OK (7)	OK (6)	OK (6)	OK (7)

(5) Directly connected to the Outside sensor box and to the Master Control W2 and W8.

(6) Directly connected to the Outside sensor box and the sensor is directly connected to the Master Control W2 and W8

(7) Directly connected to the Master Control W2 and W8.

Solutions for commercial buildings

Table of functions

		Soliris Smoove	IB +	IP/io	KNX
BMS interoperability (BACnet)		-	✔	-	✔
Integrated data logging (system status)		-	✔	✔	✔
Integrated building timer		✔	✔	✔	✔
Integrated zone timer		-	✔	✔	✔
Integrated yearly timer		-	-	✔	✔
Zone control switch/key switch		✔	✔	✔	✔
System configuration	PC software	✔	-	✔	✔
	Via display	✔	✔	-	-
System operation	PC software (BMS)	-	✔	✔	✔
	Via display	✔	✔	-	✔

User comfort/energy saving functions

Wired local control		✔	✔	-	✔
Radio local control (Somfy RTS or io)		✔	✔	✔	✔
Web remote control		-	-	✔	✔
Radio link to Bus network (Somfy RTS)		-	-	-	✔
Light control through Somfy RTS		-	-	-	✔
Inside temperature		-	✔	✔	✔
Sun		✔	✔	✔	✔
Sun tracking		-	✔	✔	✔
Zone based shadow tracking		-	-	-	✔
Window based shadow tracking		-	-	-	✔
Auto/Manual priority		-	✔	✔	✔
Auto/Manual priority via presence detector		-	✔	-	✔
Link to HVAC system		-	✔	✔	✔
DALI connection/Light scenes		-	-	-	✔

Security Functions

Alarm input		✔	✔	✔	✔
Wind speed		✔	✔	✔	✔
Wind direction		-	✔	✔	✔
Rain		✔	✔	✔	✔
Outside temperature		-	✔	✔	✔
Snow		-	✔	✔	✔
Frost		-	✔	✔	✔
Ice		-	✔	✔	✔
Window contact		-	-	-	✔

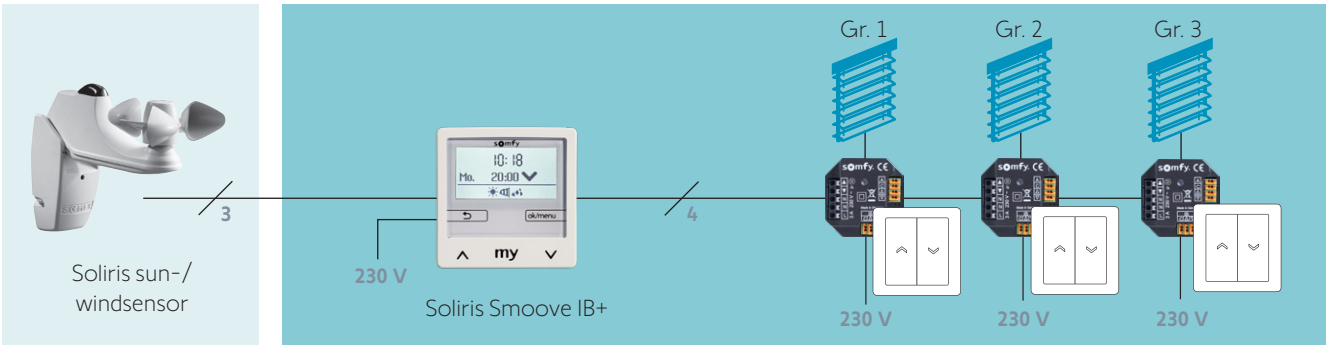
Soliris Smoove

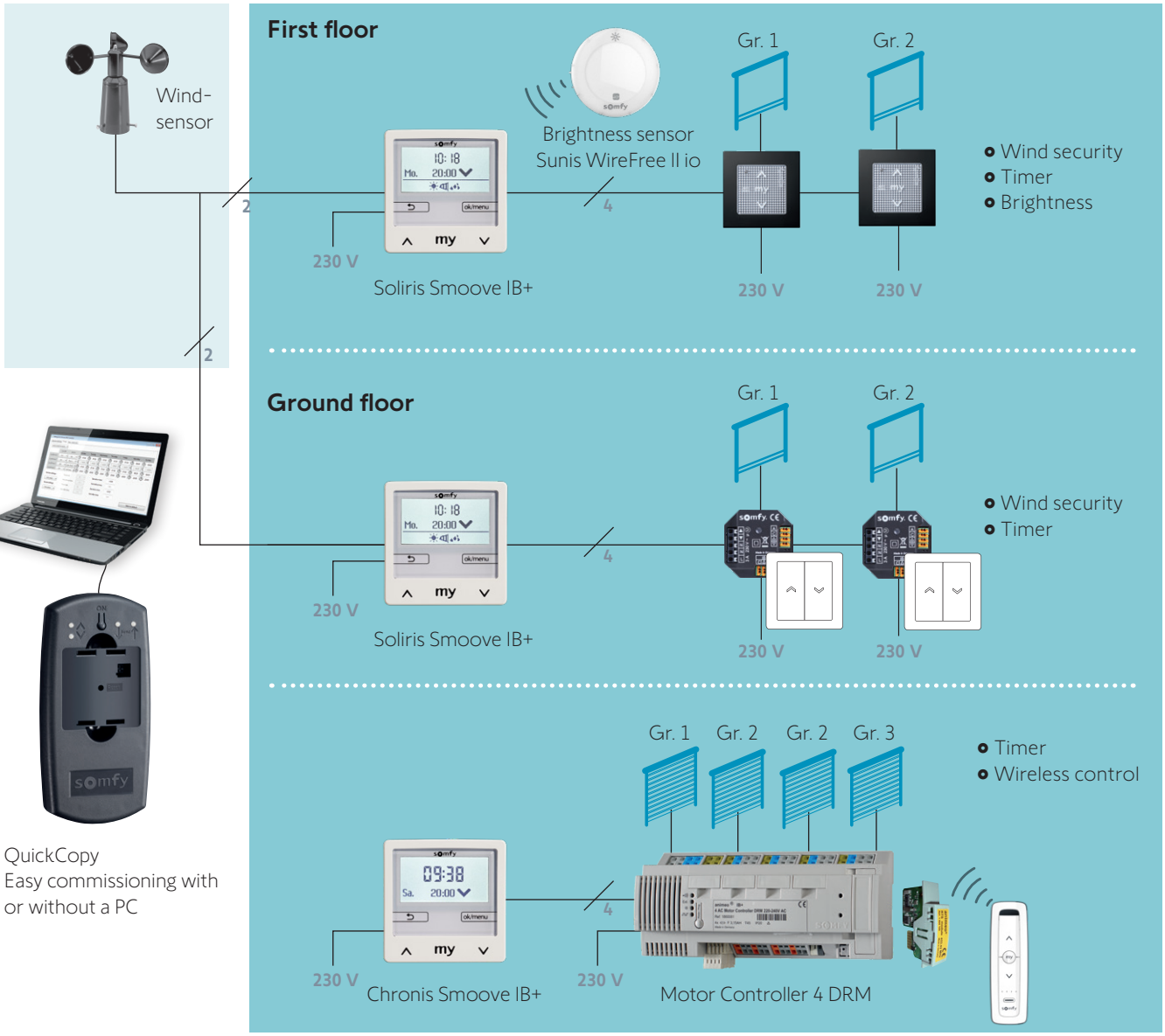
- System topology
- Benefits
- Products
- Project example

Soliris Smoove IB+

The wired, cost-effective basic automation for more convenience and security in small projects

Topology





QuickCopy
Easy commissioning with
or without a PC

Soliris Smoove IB+

Benefits

Easy programming and installation

- Easy programming and commissioning using the LCD display or via the quick copy tool (9 019 596).
- The quick copy tool (9 019 596) makes it possible to configure via a computer. Also it is possible to fast load up to 10 pre-defined programs via the tool without the use of a computer.
- The system comes with a basic configuration, as standard and the user can use the screen-based interface to program the system, which saves commissioning time on site.

Simple operation for facility management

- The building manager can control (up - down - stop) for maintenance operations such as window cleaning.
- The LCD continuously presents the system status.

Soliris Smoove IB+

Central control device for flush-mounted installation

	Reference
Soliris Smoove IB+ Pure White	1 818 316
Soliris Smoove IB+ Pure White (Nordic)	1 818 295
Fixing brackets for recessed boxes without screws	9 018 000

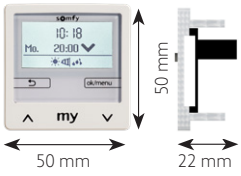
Automatic (wind, brightness and timer) and manual control multiple motors. A control line (IB bus) connects the central control unit Soliris Smoove IB+ with the motorcontroller units.

Product benefits

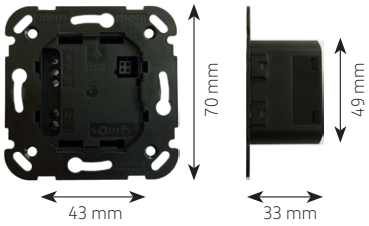
- The backlit display allows simple, menu-driven operation and programming
- Combines all functions and advantages of the timer Chronis Smoove IB+
- Timer function
- Measurement of wind speed and solar intensity with combined wind and sun sensor
- Easy setting of wind and brightness thresholds on the control unit
- Can be combined with a rain sensor to protect the building against rain
- Sun sensor: optionally with a wireless Sunis WireFree II io brightness sensor or the Soliris wired brightness sensor
- Twilight automatic via stored sun course times (Cosmic) or via radio sun sensor Sunis WireFree II io
- With the use of a QuickCopy tool settings can be made upfront and transferred quick to the control unit.

Technical data

Front unit



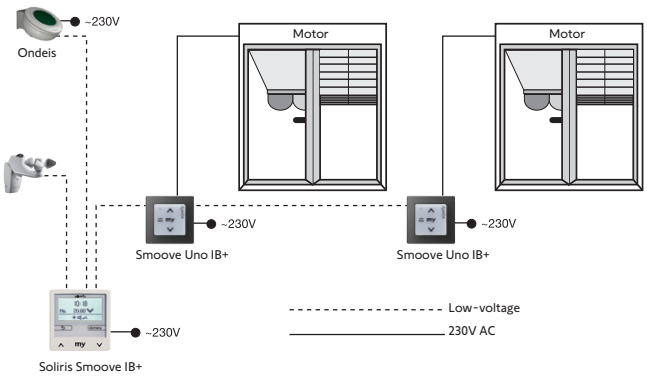
Installation module



Installation depth of 50mm recommended.

Operating voltage	220-240V ~50/60Hz
Operating temperature	0 °C to 40 °C
Protection class	IP20 / II
Dimensions (W x H x D)	50 x 50 x 22 mm

Installation detail



Chronis Smoove IB+

Timer

Chronis Smoove IB+ Pure White

	Reference
Chronis Smoove IB+ Pure White	1 805 285
Sunis WireFree II io	1 818 285

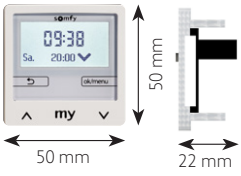
The Chronis Smoove IB+ is an IB+ timer enabling the central control for several animeo IB+ motorcontrollers or Smoove Uno IB+, up to 3 groups (zones) with different switching times.

Product benefits

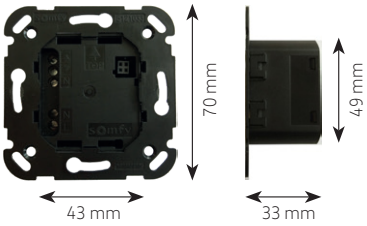
- The backlit display allows simple, menu-driven operation and programming
- Daily and weekly program: Individual opening and closing times for each day of the week or for the entire week (Monday-Sunday) programmable
- Four switching times per day (freely definable)
- Cosmic program in the evening and in the morning (closing and opening according to sunrise and/or sunset times)
- Automatic summer/winter time changeover
- "Skip until" function: programmed motor commands are suppressed up to an adjustable time
- With the use of a QuickCopy tool settings can be made upfront and transferred quick to the control unit.

Technical data

Front unit



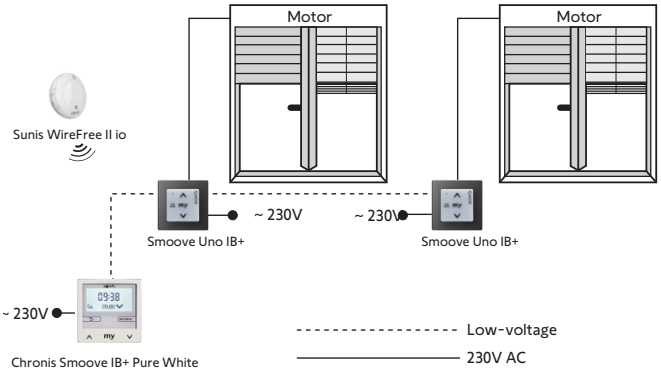
Installation module



Installation depth of 50mm recommended.

Operating voltage	220-240V ~50/60Hz
Operating temperature	0 °C to 40 °C
Protection class	IP20 / II
Dimensions (W x H x D)	50 x 50 x 22 mm

Installation detail



Soliris Smoove IB+

Sensors and accessories

Soliris Sensor

Combined weather station to measure wind speed and sun intensity.

Product benefits

- To measure wind speed and sun intensity combined in one housing.
- Comfort threshold setting on the Soliris Smoove.

Dimensions (w × h × d)	160×236×40 mm
Degree of protection	IP 34
Protection class	II
Wiring recommendations	2×2×0.8 mm
Soliris Sensor	Ref. 9 101 474 Ref. 9 101 475

Wind Sensor

To measure wind speed in connection with the Soliris Smoove

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2×0.8 mm²
Wind Sensor	Ref. 9 013 955

Eolis Sensor

Wind speed sensor in a compact housing to measure wind speed.

Product benefits

- To measure wind speed.
- Comfort threshold setting on the Soliris Smoove.

Dimensions (w × h × d)	160×236×40 mm
Degree of protection	IP 34
Protection class	II
Wiring recommendations	2×2×0.8 mm
Eolis Sensor	Ref. 9 101 479

Sun Sensor

Sun sensor to measure luminosity in connection with the Soliris Smoove.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Soliris Smoove.

Dimensions Sun Sensor (w ×h×d)	34×88×47 mm
Degree of protection	IP 44
Wiring recommendations	2×0.8 mm
Angle position	150°
Sun Sensor (without mounting brackets)	Ref. 9 154 217
Mounting brackets for Sun Sensor	Ref. 9 127 888

Soliris Smoove IB+

Sensors and accessories

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard mast with 50 mm diameter.
- 24 V DC power supply provided directly through the Soliris Smoove.
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3 × 1.5 mm
Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sunis WireFree II io - battery powered

The Sunis WireFree II io wireless sun sensor can be combined with the Soliris Smoove IB+.
Sends an signal to the Soliris Smoove IB+ to move the applications up or down automaticaly, depending on the measured brightness level.

Dimensions (w × h × d)	78 × 78 × 26 mm
Operating voltage:	2 x 1,5 V DC (Battery Typ Micro AA)
Operating temperature	-20 °C to 55 °C
Degree of protection	IP 34
Radio frequency	868 – 870 MHz
Range	50 Lux – 100 kLux
Sunis WireFree II io	Ref. 1 818 285

Switch zone splitter

To create sub-groups within an IB+ zone.

Dimensions (w × h × d)	80 × 80 × 52 mm
Degree of protection housing	IP 65
Protection class	III
Switch zone splitter	Ref. 1 810 392

For wall-mounted installation.

QuickCopy Tool

Setting tool to quickly and easily transfer settings either with or without a PC. Works with the following products: Chronis Smoove Uno (S), Chronis Smoove IB+,Soliris Smoove Uno and Soliris Smoove IB+.

Without PC: power via 2 included AA batteries.

- Front part of the Chronis Smoove or the Soliris Smoove can be plugged directly into the QuickCopy tool to transfer settings convenient (max. 10 memory slots)
- Quickly and easily transfer settings from one product to another

With PC: power and data transfer via USB.

- Creation and storage of different settings on the PC. Transfer via QuickCopy to the module
- Or: Configurations can be saved and stored via QuickCopy on the PC and can be called up at any time and to transfer to a device.

Dimensions (w × h × d)	78 × 78 × 26 mm
Operating voltage:	2 x 1,5 V DC (Battery Typ Micro AA)
Operating temperature	-20 °C to 55 °C
Degree of protection	IP 34
Radio frequency	868 – 870 MHz
Range	50 Lux – 100 kLux
QuickCopy	Ref. 9 019 596

Soliris Smoove IB+

Local controls

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

Pure shine	Ref. 1 810 881
Black shine	Ref. 1 810 882
Silver shine	Ref. 1 810 883
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

For flush-mounted installation.

Smoove frames

Smoove frames

Pure	Ref. 9 015 268
Silver Matt	Ref. 9 015 565
Black	Ref. 9 015 293
Double frame pure	Ref. 9 015 238

Smoove Origin RTS

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via UP, DOWN and STOP buttons is possible at any time.

Smoove Origin RTS	Ref. 1 810 880

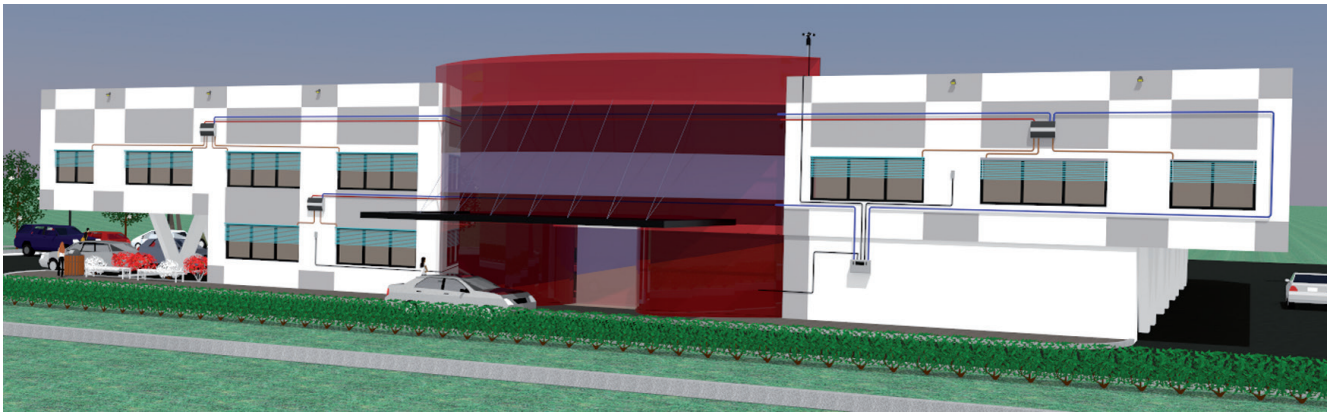
Soliris Smoove IB+

Project example

Functionality required and specified by the building owner

- A small building with two floors to be controlled
- The solution must be simple and intuitive to install
- An easy-to-operate display is desired for the user interface
- Local control through sensitive touch is also requested for excellent user comfort.

Links to sensors
Bus line Soliris Smoove
Power supply
Motor cable



Products installed

Soliris Smoove IB+
Ref. 1 818 295

Soliris Sensor
Ref. 9 101 475

Rain Sensor
Ref. 9 016 345

Motor Controller Smoove UNO IB+
Ref. 1 811 205

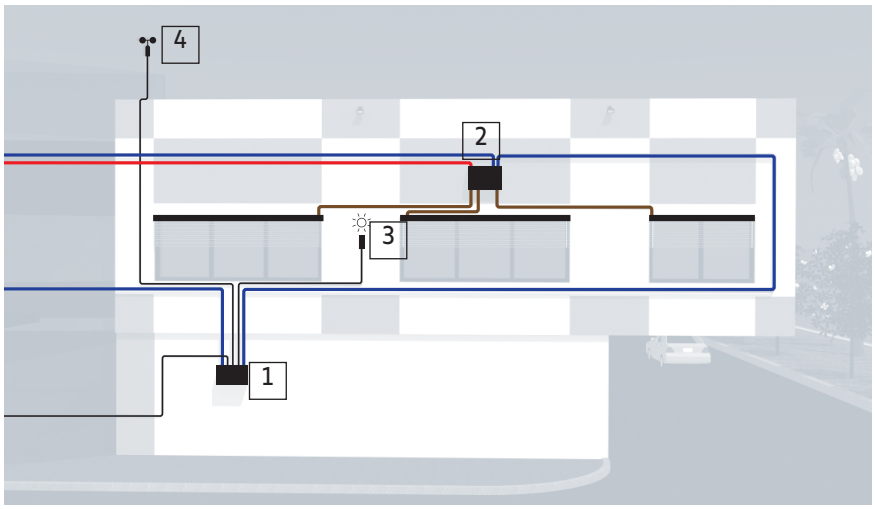
animeo Motor Controller
Ref. 1860049

Automatic functions

- Wind security
- Sun automatic
- Rain and security
- Daily timer

Soliris Smoove IB+

Installation details



The Soliris Smoove IB+ is directly connected to the Motor Controllers, the Soliris sensor and the rain sensor on the roof.

1. Soliris Smoove
2. Motor Controllers
3. Sun sensor
4. Wind sensor

animeo IB+

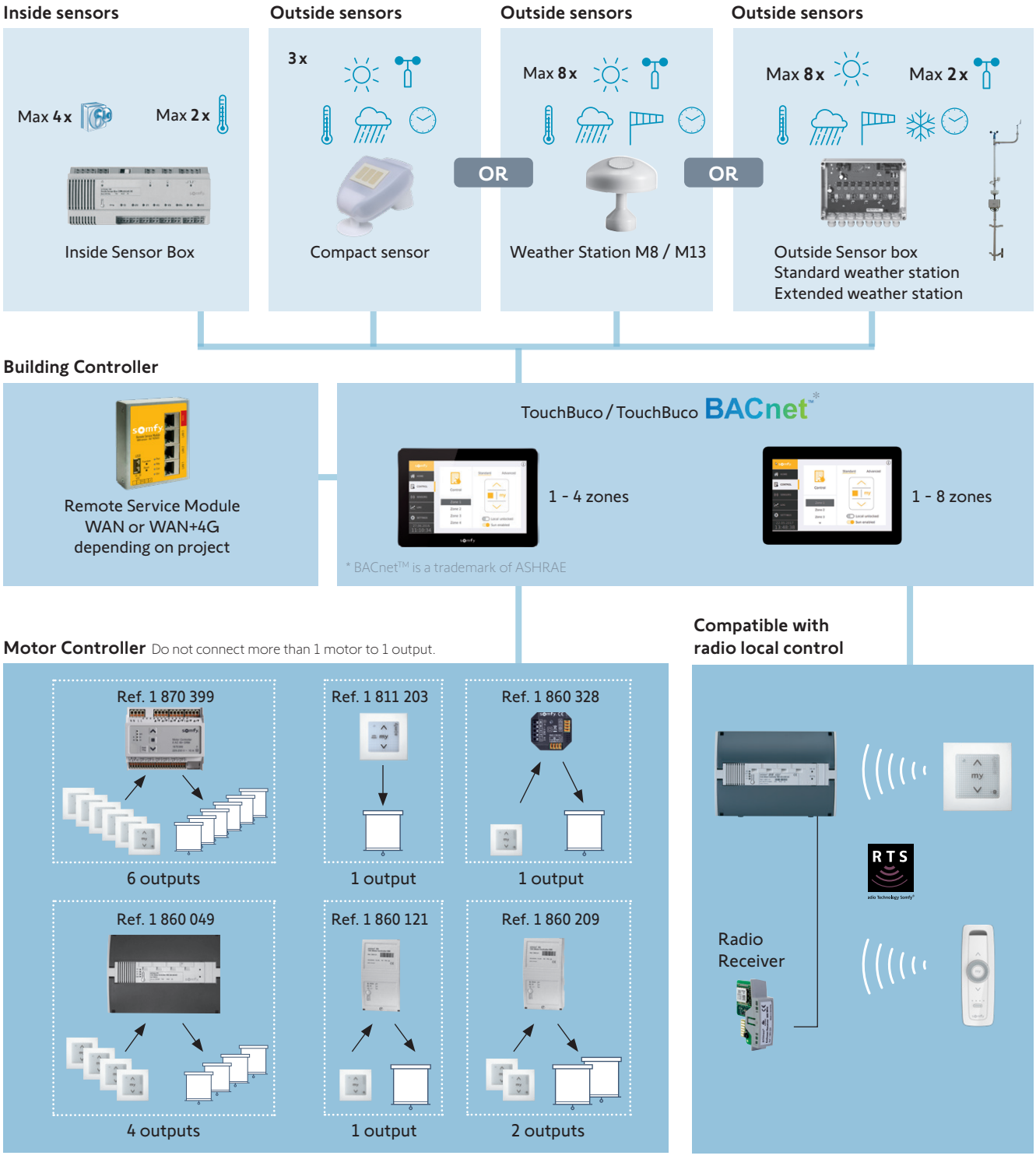
- System topology
- Benefits
- Products
- Project example

animeo IB+

System layout

An intelligent system to control 1 to 8 zones per TouchBuco.

System topology

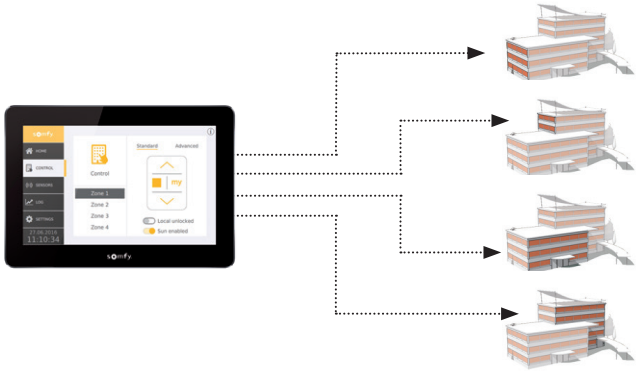


animeo IB+

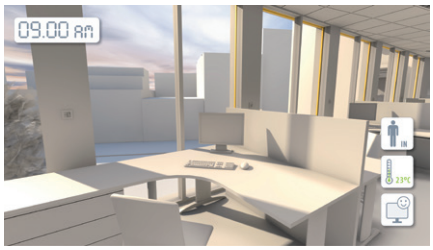
Benefits

Application independent

- Very extensive and comprehensive selection of functions and parameters, matched to the type of end product to be controlled such as screens, blinds, roller shutters and windows.
- The system comes with a basic configuration and the user can use the interface on the touch-screen to program the system and define the zones.



Tracking the sun's position



- The sun tracking function positions the venetian blind slats according to the direction of the sun's rays for the best visual comfort all day long.

Reduced energy costs

- Optimised energy savings in combination with a variety of functions: natural air-conditioning, cooling, heating, limited tilting angle, etc.
- The system switches back to automatic at a pre-defined time.

Optimum balance between user comfort and automatic funtions

- Advanced operating mode: enhanced room-specific user comfort by disabling non-security functions (e.g. sun) as soon as local operation has been assigned.

Interoperability with other equipment

- Open to Building Management System via BACnet

BACnet™ *

* BACnet™ is a trademark of ASHRAE

animeo IB+

Building Controller

* 4 Zone/8 Zone TouchBuco/BACnet

BACnet™ *

Product benefits

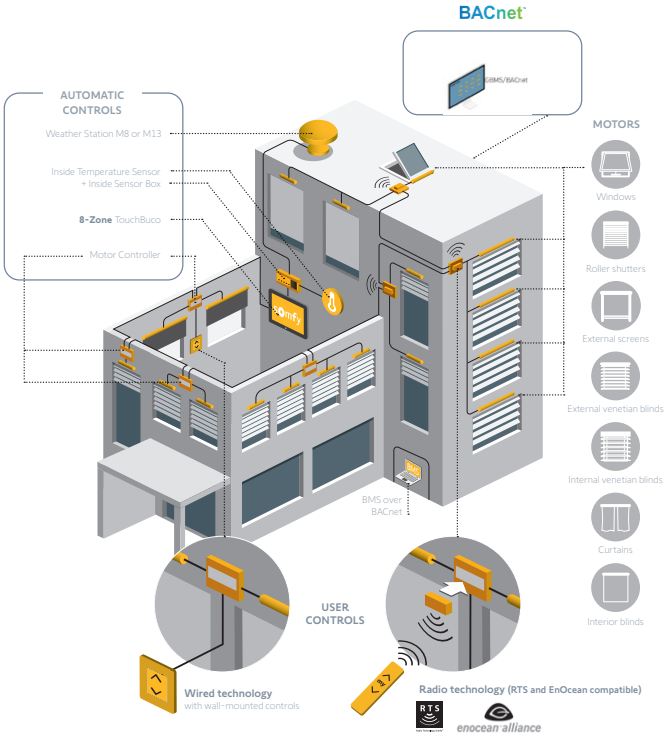
- The 4 Zone/8 Zone TouchBuco™ is a central unit designed for solar shading and window automation to control up to four or up to eight individual façade orientations of a building. It is applicable for any interior or exterior application.
- Configuration, monitoring and maintenance is realized through a menu guided intuitive capacitive 7 inch user touch screen providing a wide range of useful functions optimizing the building performance.
- The TouchBuco is compatible with all animeo IB+ Motor Controllers and the new 2 wire IB+ bus technology.

Further features

- One system can control up to 400 motors.
- 2-wire IB+ bus technology.
- User-friendly configuration interface with a step-by-step guide, remote implementation and access for maintenance.
- The separation of the weather station, which is mounted outside, and the control center (Building Controller), which is mounted inside, enables extremely cost-effective lightning protection for the system.
- Several units can interact with a single weather station.
- Communication between the weather station and the Building Controller is monitored.
- Extensive selection of functions and parameters which are specially tailored to the type of end product to be controlled (Screens, venetian blinds, blinds, roller shutters and windows).
- Sun function with configurable threshold values, time delays, position, angled orientation for venetian blinds, freely defined sensor assignment, for each zone.
- Sun tracking: instead of one fixed position an unlimited number of positions can be actuated for each zone, depending on the time, date and location of the building.
- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached and if the wind direction is such that the specific zone is affected.
- The blind elements are only moved into the safety position if there are strong winds.
- Rain and snow safety function with configurable time delays, both for each area.
- Saves three months data: events, settings, sensors, values etc.
- Zone timer with six configurable time ranges per day for the configuration of an up and down or position command.
- Potential free main alarm input with configurable action per area: up and down command with lock.
- Password protection for settings.
- BACnet: Sensor values can be shared with the BMS (Building Management System). The BMS can send commands to any zone with the desired priority level.

Dimensions (w × h × d)	200 × 132 × 72 mm
Degree of protection	IP 20
Protection class	I
Operating voltage	100 - 230 V AC
Operating temperature	0° C to + 45° C

animeo IB + 4 Zone TouchBuco	Ref. 1 860 254
animeo IB + 8 Zone TouchBuco	Ref. 1 860 255
animeo IB + 4 Zone TouchBuco BACnet	Ref. 1 870 474
animeo IB + 8 Zone TouchBuco BACnet	Ref. 1 870 475



* BACnet™ is a trademark of ASHRAE

animeo IB+

Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits

Further features

M8

- 8 sensors to collect the external conditions in 4 different orientations.

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

- 13 sensors to collect the external conditions in 8 different orientations.

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

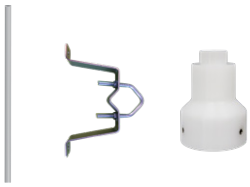
Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm
Bracket for Weather Station	Ref. 1 860 320

Mounting accessories for Weather station M8/M13



Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335
Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket (2 pieces)	Ref. 1 860 336
Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321
Kit Mast with 25 mm adaptor (3 x Mast, 2 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Lightning protection

To protect the controls from lightning. Is used in conjunction with the weather station.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706
DIN-rail bracket for bus lightning protection	Ref. 9 014 897

animeo IB+

Sensors and accessories

Housing for Inside Temperature Sensor

To install an Inside Temperature Sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm

Housing for Inside Temperature Sensor	Ref. 9 008 045

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

animeo Power Supply DC

To supply the weather station and the animeo KNX Master Control W2/W8.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100%) 4.5 A (switch on duration 50%: 3 min on, 3 min off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Outside Sensor Box

Outside Sensor Box is the interface between the individual sensors to the animeo building control solutions. It requires an external 24 V AC/DC power supply.

Product benefits

- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor as well as a DCF plug module can be connected to the Outside Sensor Box.
- Only two cables must be laid to the outside. All wires easily integrated through spring clamp connectors.

Further features

- Easy and quick start-up in conjunction with animeo building control solutions.
- Status display through LEDs for clear monitoring of connected and functioning individual sensors.

Dimensions (w × h × d)	207 × 255 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC/DC
Operating temperature	- 30° C to + 70° C

Outside Sensor Box	Ref. 9 001 606

Inside Sensor Box

For connection to external push buttons or key switches per zone and up to 2 Inside Temperature Sensors.

Product benefits

- Window cleaners need no access to the complete user interface.
- Inside Temperature Sensors enable easy extendability of the system's energy saving options.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C

Inside Sensor Box	Ref. 9 001 614

For DIN-rail installation, 12 SUs.

animeo IB+

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2×0.8 mm²
Wind Sensor	Ref. 9 001 608

Remote Service Module

Product benefits

- Diagnose, configure and commission via a secured VPN connection
- Error alerts
- Worldwide support
- BSI certified
- Compatible with animeo IP, animeo KNX and animeo TouchBuco.

Dimensions (w × h × d)	69 x 38,5 x 92,5
Degree of protection	IP 20
Operating voltage	10-30 V DC
Operating temperature	-0° C to +55° C
Remote Service module WAN version	Ref. 9 020 655
Remote Service module 4G+WAN version	Ref. 9 020 663

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.
- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5×1.5 mm²
Wind Direction Sensor	Ref. 9 013 807

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Product benefits

- Precise measurement of exterior temperature values which can be displayed by °C or °F in the animeo building control solutions.
- Protective housing to prevent measurement influence by spiders and birds
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2×0.8 mm
Outside Temperature Sensor	Ref. 9 001 611

animeo IB+

Sensors and accessories

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque housing and UV stabilized.
24 V DC and 230 V DC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard mast with 50 mm diameter.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3×1.5 mm
Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150°
Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions/mast height	3200 mm
Sensor Station	Ref. 9 013 726

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

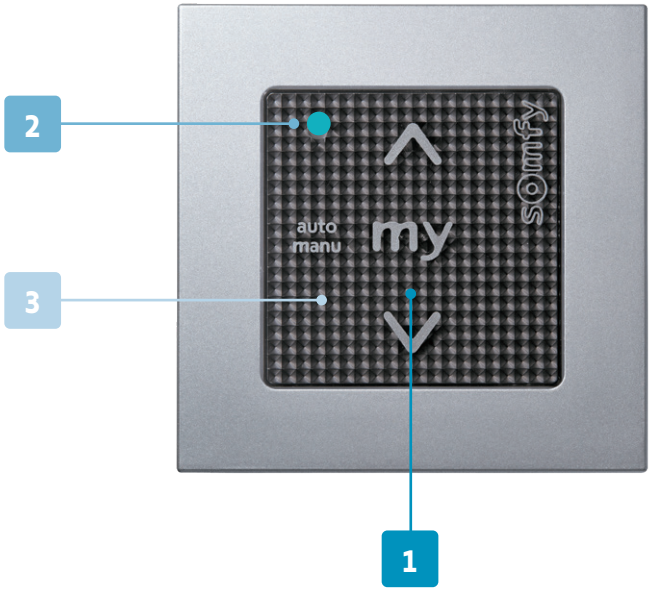
- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions/mast height	3200 mm
Sensor Station extended	Ref. 9 013 727

animeo IB+

Motor Controller for flush-mounted installation

Single flush-mounted



1
- Touch-sensitive technology
- my = intermediate position

2
- Display prioritised central commands (e.g. wind)

3
- Suitable for all 50 × 50 mm mounting frames
- 3 colors
- Combinable with cut-off relay for flush-mounted box
- Sun automatic on/off

Smoove frames

animeo IB+

Motor Controller

Smoove UNO IB+

For roller shutters, screens, exterior venetian blinds and windows. Designed for flush-mounted installation. For the individual control of 1 × 230 V AC motors via touch-sensitive switch or in groups via Somfy IB or animeo IB+ controlling technology.

Product benefits

- Fits in standard 50 x 50 mm frames
- Cover plate and frame can be integrated at finish to prevent soiling during installation.
- Feedback of active status through LED on the device.

Further features

- Priority management between local and automatic commands directly on the device or through different modes configurable via animeo IB+ Building Controller.

Dimensions (w × h × d)	71 × 71 × 44 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

Smoove UNO IB+ Pure Shine	Ref. 1 811 203
Smoove UNO IB+ Silver Shine (only on request)	Ref. 1 811 204
Smoove UNO IB+ Black Shine (only on request)	Ref. 1 811 205

For flush-mounted installation.

Accessories

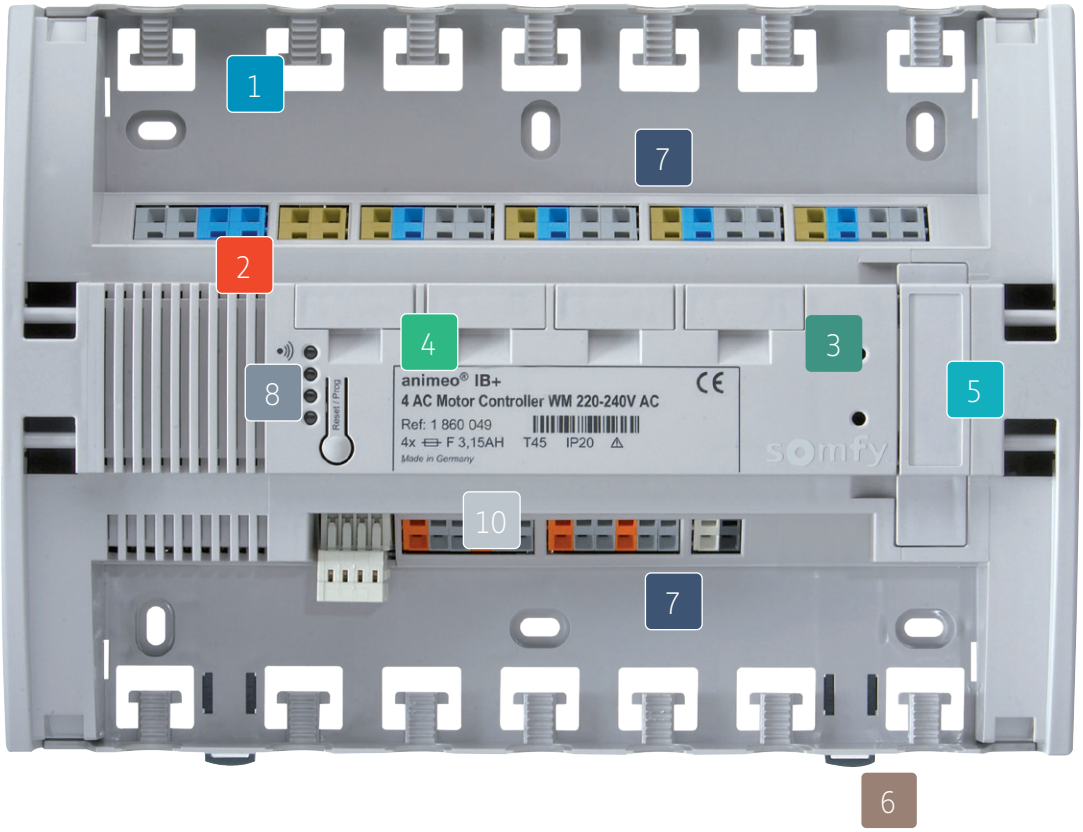
Smoove UNO IB+ frames

Smoove frames

• Pure	Ref. 9 015 022
• Silver Matt	Ref. 9 015 025
• Black	Ref. 9 015 023
• Double frame pure	Ref. 9 015 238

animeo IB+

Somfy motor controller for surface mounted or DIN rail installation.



1 **Quick assembly**
- Integrated tension relief, usable with cable ties

2 **Quick connectivity**
- Spring-clip connectors
- Dual connectors (in-out), to connect to the mains circuit for example

3 **Quick maintenance**
- Fuse holder per motor output accessible from the outside

4 **Fuse per output**

5 **Slot for animeo radio plug-in card**

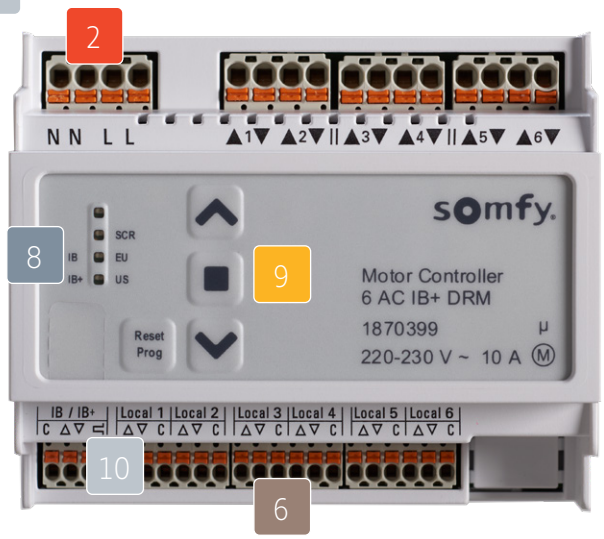
6 **Mounting for DIN rail or screw mounting**

7 **Generous connection space with cover (not shown)**

8 **LEDs for displaying status and buttons for display basic settings.**

9 **Operation possible directly on the device to simple check the motor wiring.**

10 **Connectors for local control**



animeo IB+

Motor Controller

1 AC Motor Controller

1 AC Motor Controller
For roller shutters, screens, screens, external venetian blinds and windows. For the individual control of 1 × 230 V AC motor via local push buttons, or in groups with IB+ Controlling Technology.

1 AC Motor Controller Output Converter
Provides 1 x potential free output for individual control via local push buttons, or in groups with animeo IB+ Controlling technology.

Product benefits

- Compact design suitable for e.g. installation in under-window or wall-mounted wiring conduits.
- Local setting of an intermediate position and of user ergonomics.

Further features

- Easily accessible fuses.

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

1 AC Motor Controller WM	Ref. 1 860 121
1 AC Motor Controller WM Output Converter	Ref. 1 860 125

For wall-mounted installation.

1 AC Motor Controller IWM

Motor Controller for motorized external screens, venetian blinds, roller shutters and windows. For the individual controlling of a 1 x 230 V AC motor via a unlocked serial push button and/or through Somfy solar shading management systems such as Somfy New Wired Range and Somfy animeo IB+. Available for flush mounting (IWM).

Product benefits

- Designed to fit in standard flush mounting boxes.
- Quick installation and integration of the Motor Controller through:
  1. Smallest possible housing dimensions following up to date installation norms.
  2. Spring tension connectors to fasten the wiring.
  3. Double terminals allow daisy chaining and provide space saving in the flush mounting socket.
- Independent of switch manufacturer design. Recommended: Somfy Smoove Origin IB, Ref. 1 811 272.
- Motor Controller can be used on delivery state with different selectable operating modes to choose from.
- Economical: < 0.5 W stand-by power consumption.

Further features

- A freely selecteable intermediate positon "my" can be chosen by the user.
- Intelligent switching between manual and automatic operation to guarantee excellent user comfort and energy savings.
- The Auto mode can optionally be switched on or off with a separate input.
- Adressable with visual feedback for the integration in Somfy solar shading management systems.
- Compatible with Somfy IB, Somfy animeo IB+ and installer-friendly 2-wire Somfy animeo IB+ technology.

Dimensions (w × h × d)	50 mm x 50 mm x 25 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 50° C
Output voltage	230 V AC
Output current	3 A

IB+ 1 AC Motor Controller IWM	Ref. 1 860 328

For wall-mounted installation.

animeo IB+

Motor Controller

2 AC Motor Controller

For roller shutters, screens, exterior venetian blinds and windows. For the individual controlling of 2 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits

- Compact design suitable for e. g. installation in under-window or wall-mounted wiring conduits.
- Local setting of an intermediate position and of user ergonomics.

Further features

- Easy accessible fuses.

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

2 AC Motor Controller WM	Ref. 1 860 209

4 AC Motor Controller

For roller shutters, screens, exterior venetian blinds and windows. For individual control of 4 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits

- Upgradable for local control by radio.
- Local setting of an intermediate position and of user ergonomics.

Further features

- Easily accessible safety fuses per output.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	max. 3.15 A per output

4 AC Motor Controller WM	Ref. 1 860 049
For wall-mounted installation.	

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20

animeo IB+

Motor Controller

4 DC Motor Controller

For interior blinds, interior venetian blinds and windows.
For individual control of 4 × 24 V DC motors via local push buttons, or in groups with IB+ Controlling Technology. External 24 V DC power supply required (see accessories).

Product benefits

- Upgradable for local control by radio.
- Local setting of an intermediate position and of user ergonomics.
- Configurable slats and turning speed for optimum user ergonomics.

Further features

- Output protected through current detection.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V DC
Operating temperature	0° C to + 45° C
Output voltage	24 V DC
Output current	up to max. 2.1 A per output

4 DC Motor Controller	Ref. 1 870 451

For wall-mounted installation.

6 AC Motor Controller

For roller shutters, screens, exterior venetian blinds and windows. For the individual controlling of 6 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits

- Push button on façade to validate the motor wiring direction.
- Status feedback through LEDs.
- Basic motor settings possible with the "PROG" button.
- Starting delay time setable for electronic motors.
- Access for software updates.

Further features

- Modern push-in CAGE CLAMP® connectors for any wire type.
- Daisy chain for the mains.

Dimensions (w × h × d)	110 x 90 x 60 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 50° C
Output voltage	230 V AC
Output current	max. 3 A per output

6 AC Motor Controller WM	Ref. 1 870 399

For DIN-rail installation in electrical cabinet, 6 SUs

animeo IB+

Accessories

RTS Radio Receiver

Receiver to upgrade 4 AC, 4 DC or 4 DC / DC-E Motor Controller sdevices. Direct plug-in to Motor Controller.

Dimensions (w × h × d)	52 × 92 × 27 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	5 V DC, from animeo IB+ Motor Controller
Operating temperature	0° C to + 45° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls

RTS Radio module	Ref. 1 860 105

Switch zone splitter

To create sub-groups within an IB+ zone.

Dimensions (w × h × d)	80 × 80 × 52 mm
Degree of protection housing	IP 65
Protection class	III

Switch zone splitter	Ref. 1 810 392

For wall-mounted installation.

Power Supply DC

To supply power to the DC Motor Controller.

When using "Somfy Concept 25" motors, up to 2 Motor Controllers 4 DC can be supplied via one power supply (= 8 motors).
Switchable also in parallel:
2 x 4.5 A = 9 A.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100%) 4.5 A (switch on duration 50%: 3 min. on, 3 min. off)

Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Sensor Hub

A 4-ch isolated RS-485 active star wiring hub.

4 independent RS-485 output channels each equipped with an individual driver, and one RS-485 input channel. The data from a master to the input channel will simultaneously be forwarded to all the four output channels.

Dimensions (w × h × d)	72 × 122 × 35 mm

Sensor Hub	Ref. 9 018 147

For DIN-rail installation.

animeo IB+

Accessories

Surface Mounting Box TouchBuco

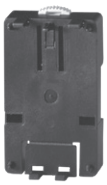
For surface mounted installation of the TouchBuco both the flush mounting box (9 019 837) and the surface mounting box are needed.

Dimensions (w × h × d)	254 × 180 × 90 mm

Surface Mounting Box TouchBuco	Ref. 9 019 838

For wall-mounted installation.

DIN-rail adapter



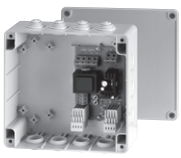
For installation on 35 mm DIN-rail to mount circuit board versions CD 2 × 1 P6, CD 1 × 4 P6, animeo 1 AC/2 AC Motor Controller PCB.

Dimensions (w × h × d)	70 × 105 × 23 mm

DIN-rail adapter	Ref. 9 008 049

For 35 mm DIN-rail, colour; black, 4 SUs

IB/IB+ Repeater



Circuit board for signal amplification of IB / IB+ controlling technology signal with longer cable connection (from 1000 m).

Dimensions (w × h × d)	165 × 160 × 60 mm
Degree of protection	IP 54
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C

IB/IB+ Repeater	Ref. 9 011 809

For wall-mounted installation.

Flush Mounting Box TouchBuco

Dimensions (w × h × d)	192 × 119 × 68 mm

Flush Mounting Box TouchBuco	Ref. 9 019 837

Flush-mounted installation.

animeo IB+

Local controls

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

• Pure shine	Ref. 1 810 881
• Black shine	Ref. 1 810 882
• Silver shine	Ref. 1 810 883
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

For wall-mounted installation.

Smoove frames

Smoove frames

• Pure	Ref. 9 015 268
• Silver Matt	Ref. 9 015 293
• Black	Ref. 9 015 565
• Double frame pure	Ref. 9 015 238

Smoove Origin RTS

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via UP, DOWN and STOP buttons is possible at any time.

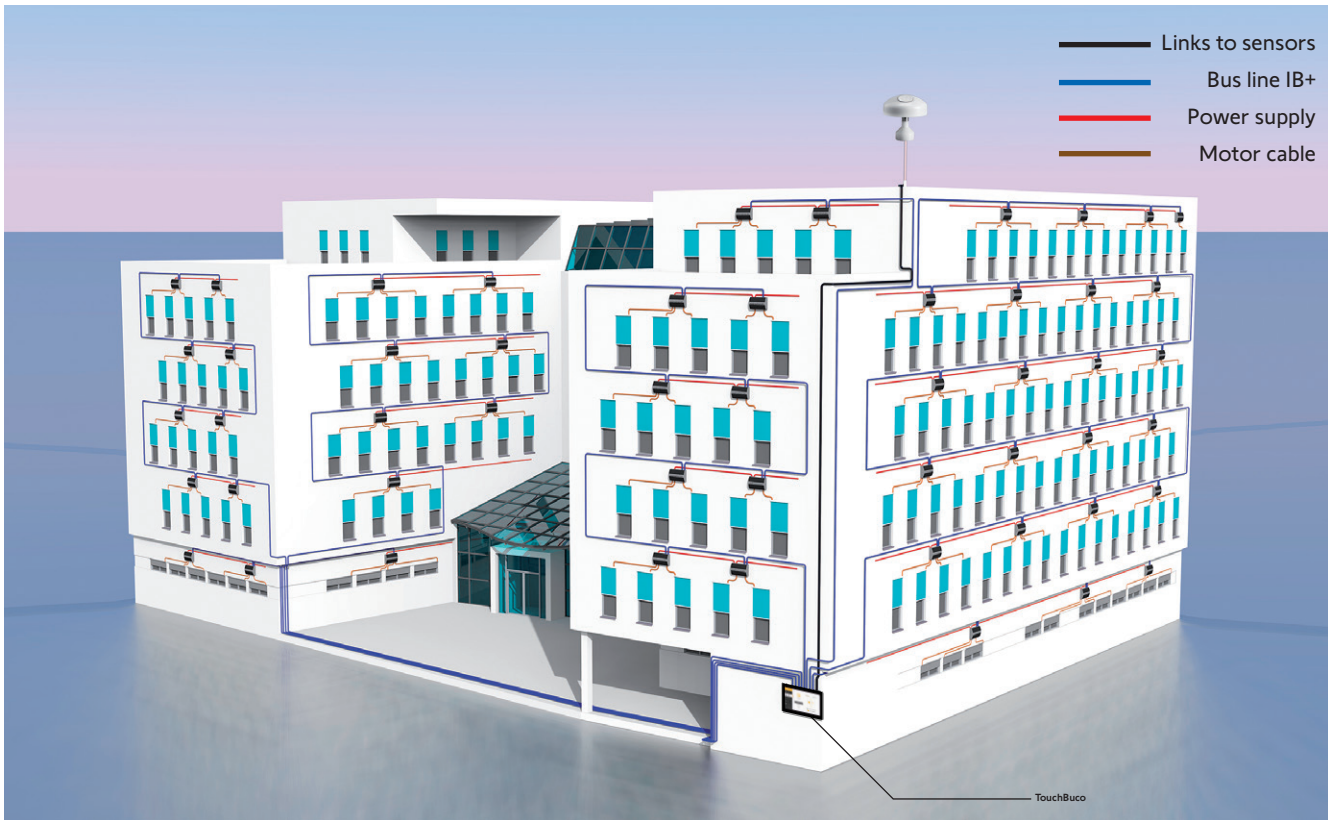
Smoove Origin RTS	Ref. 1 810 880

animeo IB+ TouchBuco™ System

Installation details

Functionality required and specified by the building owner

- Up to 8 separate façade zones are to be controlled with one TouchBuco.
- Ergonomic and user friendly user interface via touchscreen.
- Zip-screens except for the ground floor to be equipped with roller shutters (security).
- Local control through Somfy RTS technology.



Products installed

TouchBuco

Weather Station M8/M13
Ref. 1 860 306
Ref. 1 860 307

animeo Power Supply DC
Ref. 1 860 093

animeo Motor Controller
Ref. 1 860 049

RTS radio module
Ref. 1 860 105

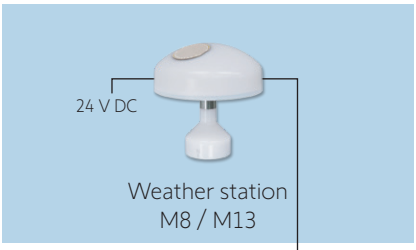
Situo 1 Variation RTS Pure II
Ref. 1 811 608

Smoove Origin Switch
Ref. 1 811 272

animeo IB+

Multiple systems with one weather station

Outdoor sensor



System description:

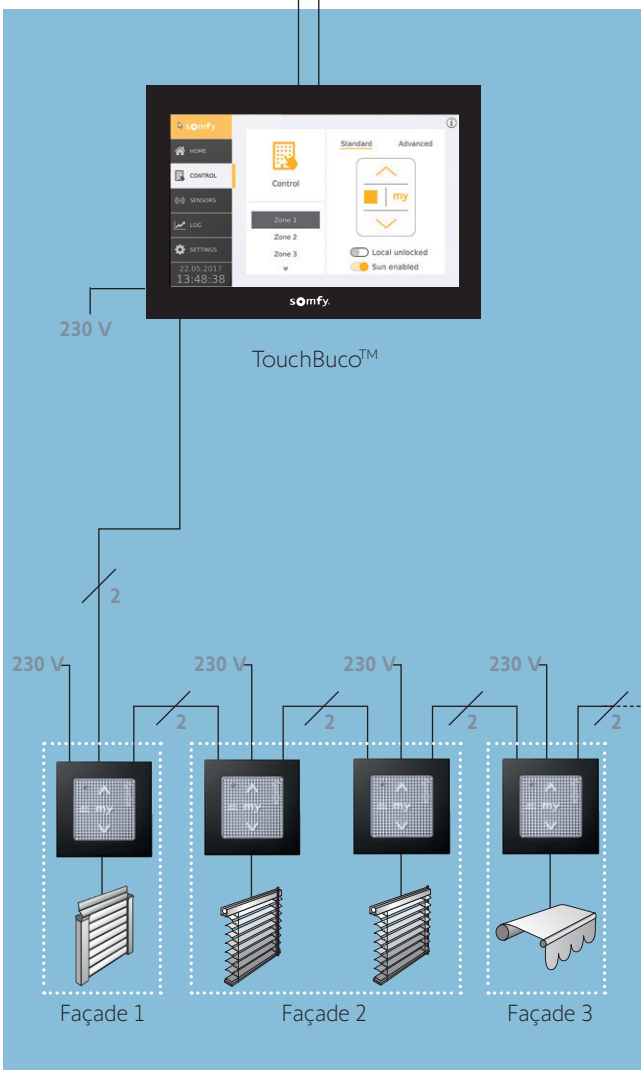
M8 or M13 weather station.

2 systems with a Somfy TouchBuco, each fully automated.

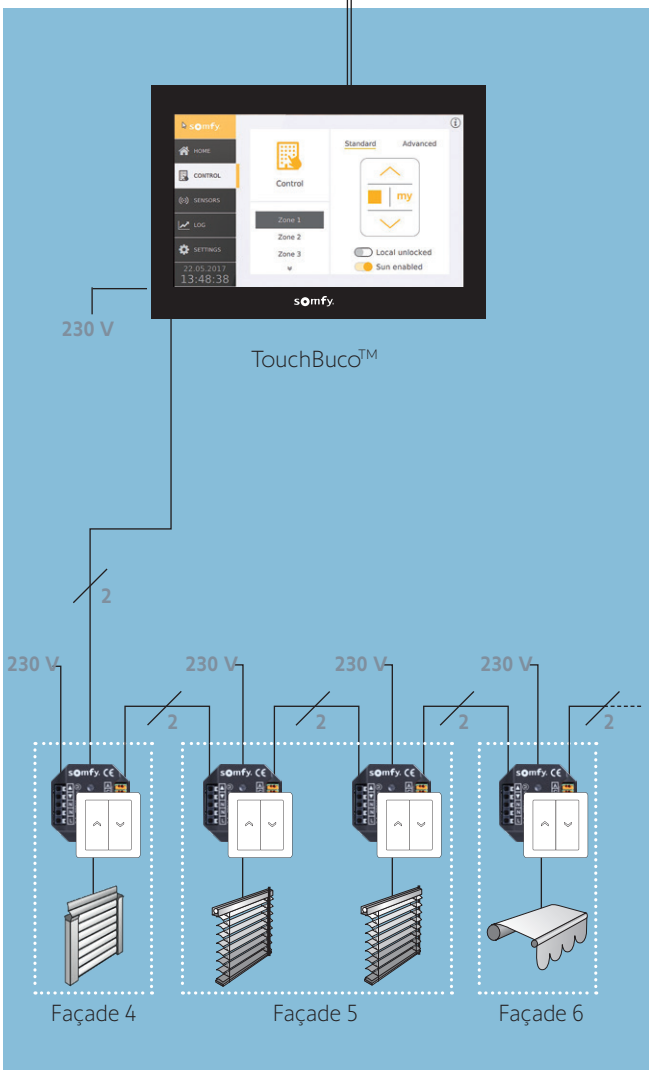
Somfy Smoove Uno IB+ individual motor control unit for sensitive operation, distributed over up to 4 or 8 façades

Maximum 500 m / 5 TouchBuco's
or expandable with animeo hubs

SYSTEM 1



SYSTEM 2



animeo IP/io

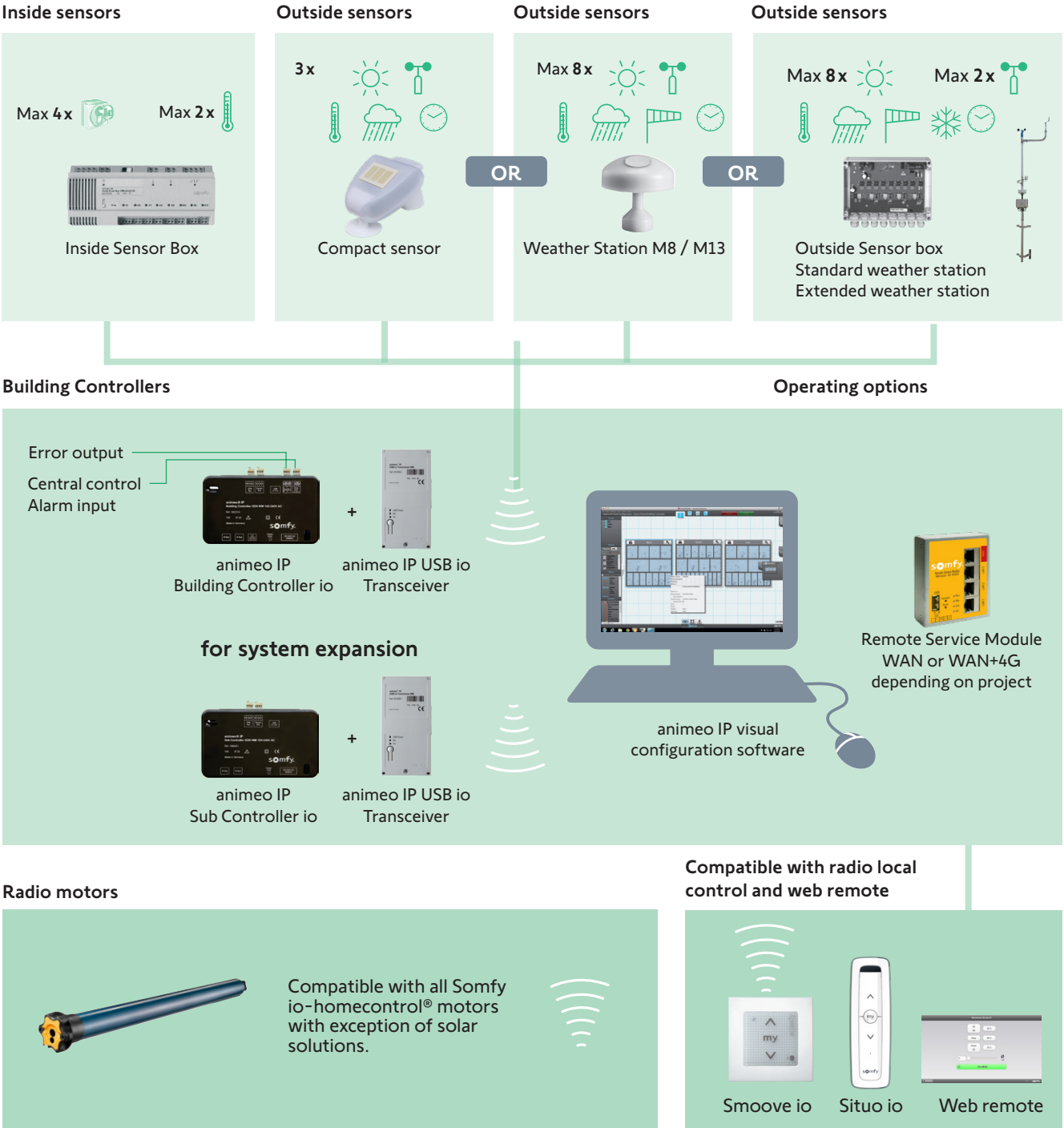
- System topology
- Benefits
- Products
- Project example

animeo IP/io

Dedicated to small and medium size buildings, animeo IP/io is the wireless solution that makes it easy to manage your commercial sector sites. This solution is dedicated to exterior screens.
Thanks to minimal wiring and plug and play installation, animeo IP/io reduces wiring mistakes.
An intuitive user interface allows simplified commissioning, building management and technical support, featuring drag-and-drop zone creation, motor discovery and at-a-glance system status updates.

System topology

This is a single system based topology - different options could be offered if applicable.



* Per Building Controller/Sub Controller

** BACnet™ is a trademark of ASHRAE

animeo IP/io

All benefits at a glance

Real and Astronomic Timed Events

- With animeo IP's timed events feature, schedules can be created to keep buildings energy efficient based on certain times of day. Creating timed events around periods of high occupancy (between 8:00 AM and 6:00 PM, Monday to Friday) and low occupancy (weekends, holidays) ensures the building is running as efficiently as possible.

Control Versatility

- Wireless controls and virtual keypads provide occupants with control over nearby window coverings. animeo IP can override manual occupant commands during specific time periods (e.g. east façade from 8:00 AM - 12:00 PM) to keep the building running as efficiently as possible, providing just the right balance of manual and automated control.

Facility Manager View

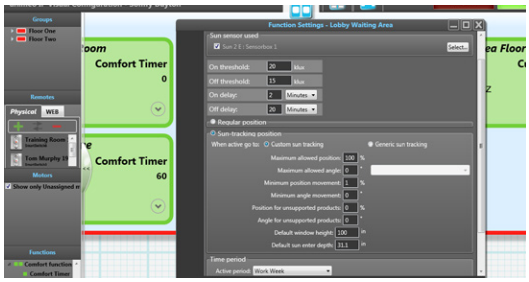
Web remote

Smoove io

Situo 1 io Pure II

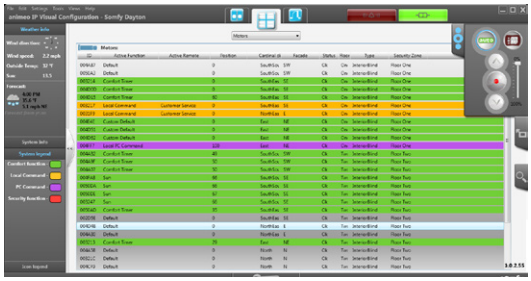
Sun Tracking

- Automates natural light management based on the sun's position and façade orientation to minimize glare and maximize the opportunity for daylighting.



Facility Management

- animeo IP/io technology provides bi-directional status reporting of window covering positions. With this information, animeo IP exports system status snapshots in convenient graph or table form. Quickly see how and why shades were adjusted with simple color codes for timed events, occupant actions or building overrides. Facility managers can also receive systems alerts via email.



animeo IP/io

Building and Sub Controller

Building Controller

The IP Building Controller is an integrated central hardware and software device for 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.

Product benefits

- The IP Building Controller provides an intuitive graphical user interface for simple programming, commissioning, operational and system status.
- Automatic discovery of blinds, sensors and local control points.
- No zone limitation; a single window can be a zone.
- Allows configuration and binding of web remotes.
- A system with a Building Controller can control max. 200 motors.
- One Building Controller can connect to 1 x weather station and 2 x Inside Sensor Box.
- Optimised energy savings in conjunction with a wide range of functions: cooling, heating.
- Enhanced operating mode: Increased, room-based user comfort thanks to the suppression of centralised non-safety functions (e.g. sun function) as soon as local controls are used. The system is switched back into automatic mode at freely definable times each day.

Further features

- For larger installations, the IP Building Controller's capacity can be expanded with the addition of an animeo IP Sub Controller .
- RJ45 and spring clamp connectors in case of false connection.
- Suitable for wall-mounting and DIN-rail installation.
- The separation of the Sensor Interface (Outside Sensor Box), which is normally mounted outside, and the control center (Building Controller), which is normally mounted inside, enables extremely cost-effective lightning protection for the system.
- Communication between the weather station and the Building Controller is monitored.
- Extensive selection of functions and parameters which are tailored to the type of shading to be controlled (screens, blinds, roller shutters).
- Sun function with configurable threshold values, delays, position, angled orientation for venetian blinds, freely defined sensor assignment for each zone.
- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached and if the wind direction is such that the specific zone is affected.
- The blind elements are only moved into the safety position if there are strong winds (gale warning).
- Rain and snow safety function with configurable time delays, both for each zone.

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/io Building Controller	Ref. 1822314

Sub Controller

The IP Sub Controller expands animeo IP/io installations. An IP Building Controller is essential for 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.

Product benefits

- 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 clamp connectors for false prove connections.
- Suitable for wall-mounting and DIN-rail installation.
- One Sub Controller can connect to 1 x weather station and 2 x Inside Sensor Box.

Further features

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

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100-240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/io Sub Controller	Ref. 1 860 201

animeo IP/io

Transceiver

USB io Transceiver

The use of the USB io Transceiver is mandatory with every animeo IP/io Building and Sub Controller. The transceiver establishes communication from the IP Building Controller/Sub Controller to the io motors and io local control points.

Product benefits

- Plug and play connection through USB to the IP Building Controller and IP Sub Controller.
- Delivered with pre-installed USB cable.
- Suitable for wall mounted and DIN-rail installations.

Further features

- LED display of sent and received io radio signals.
- Scans 3 frequencies between 868 and 870 MHz and communicates over the most reliable transmission.

Housing Dimensions (w × h × d)	90 x 180 x 45 mm
Degree of protection	IP 20
Protection class	III
Supply voltage	5 V DC via USB 2.0
Operating temperature	0° C to +45° C

USB io Transceiver	Ref. 9 018 682

Remote Service Module

Product benefits

- Diagnose, configure and commission via a secured VPN connection
- Error alerts
- Worldwide support
- BSI certified
- Compatible with animeo IP, animeo KNX and animeo TouchBuco.

Dimensions (w × h × d)	69 x 38,5 x 92,5
Degree of protection	IP 20
Operating voltage	10-30 V DC
Operating temperature	-0° C to +55° C

Remote Service module WAN version	Ref. 9 020 655
Remote Service module 4G+WAN version	Ref. 9 020 663

Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

M8

Product benefits

- 8 sensors to collect the external conditions in 4 different orientations.

Further features

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

Product benefits

- 13 sensors to collect the external conditions in 8 different orientations.

Further features

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

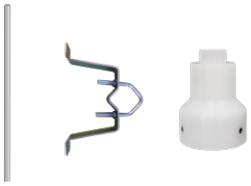
Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

animeo IP/io

Sensors and accessories

Mounting accessories for Weather Station M8/M13



Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335
Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket	Ref. 1 860 336
Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321
Kit Mast with 25 mm adaptor (3 x Mast, 1 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm
Bracket for Weather Station	Ref. 1 860 320

animeo Power Supply DC

To supply the weather station.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100 %) 4.5 A (switch on duration 50 %: 3 min on, 3 min off)
animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Lightning protection

To protect the controls from lightning. Used in conjunction with the weather station.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706
DIN-rail bracket for bus lightning protection	Ref. 9 014 897

animeo IP/io

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm²
Wind Sensor	Ref. 9 001 608

Outside Sensor Box

The Outside Sensor Box is the interface between the weather station and the Building Controller or Sub Controller. All measurement values are evaluated here and sent to the Building Controller. It requires an external 24 V AC/DC power supply.

Product benefits

- All sensors incl. Outside Sensor Box can be fixed to the Sensor Station mast.
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor,
  1 rain sensor, 1 outside temperature sensor can be connected to the Outside Sensor Box.

Dimensions (w × h × d)	207 × 255 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC / DC
Operating temperature	- 30° C to +70° C
Outside Sensor Box	Ref. 9 001 606

For wall-mounted installation.

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.
- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²
Wind Direction Sensor	Ref. 9 013 807

animeo IP/io

Sensors and accessories

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Product benefits

- Precise measurement of exterior temperature values which can be displayed in °C or °F in the animeo building control solutions.
- Protective housing to prevent measurements influenced by spiders/birds.
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2 × 0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard 50 mm diameter mast.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	5 x 1.5 mm²

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150 °

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly inidcated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station	Ref. 9 013 726

animeo IP/io

Sensors and accessories

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Dimensions / mast height	3200 mm
Sensor Station extended	Ref. 9 013 727

Inside Sensor Box

For connection to external push buttons or key switches per zone and up to 2 Inside Temperature Sensors.

Product benefits

- Window cleaners need no access to the complete user interface (animeo IP Visual Configuration Software).
- Inside Temperature Sensors enable easy extendability of the system's energy saving options.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to +45° C
Inside Sensor Box	Ref. 9 001 614

For DIN-rail installation, 12 SUs.

Housing for Inside Temperature Sensor

To install inside temperature sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm
Housing for Inside Temperature Sensor	Ref. 9 008 045

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

* BACnet™ is a trademark of ASHRAE

animeo IP/io

Local wall controls

Smoove 1 io

1 channel on-wall radio transmitter.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +60° C
Operating conditions	Dry living rooms
Radio frequency	865.95 MHz

Pure shine	Ref. 1 811 003
Black shine	Ref. 1 811 005
Silver shine	Ref. 1 811 007
Adapter disk for other switching programs	Ref. 9 016 911

Smoove Origin io

1 channel on-wall radio transmitter.

Dimensions (w × h × d)	50 × 50 × 50 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +60° C
Operating conditions	Dry living rooms
Radio frequency	865.95 MHz

Pure shine	Ref. 1 811 066

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

Smoove frames

Smoove frames

Pure	Ref. 9 015 268
Silver Matt	Ref. 9 015 565
Black	Ref. 9 015 293
Double frame pure	Ref. 9 015 238

animeo IP/io

Local remote controls

Situo 1 io/Situo 5 io

Pure Iron Arctic Natural

To control 1 io application or 1 group of io applications. To control up to 5 io applications or 5 groups of io applications.

Dimensions (w × h × d)	42 × 139 × 16 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +48° C
Operating conditions	Dry living rooms
Radio frequency	868 MHz +/- 1 KHz
Situo 1 io Pure	Ref. 1 870 313
Situo 1 io Iron	Ref. 1 870 317
Situo 1 io Arctic	Ref. 1 870 325
Situo 1 io Natural	Ref. 1 870 321
Situo 5 io Pure	Ref. 1 870 329
Situo 5 io Iron	Ref. 1 870 333
Situo 5 io Arctic	Ref. 1 870 341
Situo 5 io Natural	Ref. 1 870 337

Situo 1 Variation io

Iron Pure

To control 1 io application or 1 group of io applications. With scroll wheel for tilting and dimming.

Dimensions (w × h × d)	45 × 140 × 20 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +48° C
Operating conditions	Dry living rooms
Radio frequency	868 MHz
Situo 1 Variation io Iron	Ref. 1 870 364
Situo 1 Variation io Pure	Ref. 1 870 367

Web remote control

Web remote control

Manual user control. Allows control of one blind or a group of blinds via a web page from a user's computer or a smartphone.

Product benefits

- Applicable at any time
- Can easily be adapted to the user's environment

Further features

- Controls Up/Down position
- Controls slat position
- Displays of blind position
- Overrides automatic functions

animeo IP web remote license key	Ref. 9 019 244

animeo IP/io

Project example

Functionality required and specified by building owners.

- Requirements for minimum cabling and installation because the building is in use.
- Management per window, group or façade for exterior screens.
- Local control points using radio remote or web remote controls.
- Configuration and use can be monitored and modified remotely.
  The exact position and status of the exterior screens should be visible at any time.

Products installed

animeo IP
Building Controller io
Ref. 1 822 314

animeo IP
Sub Controller io
Ref. 1 860 201

Sensor Station Extended
Ref. 9 013 727

animeo IP USB io transceiver
Ref. 9 018 682

Situo 1 io Pure II
Ref. 1 870 313

Web remote
Ref. 9 019 244

animeo IP/io

Automatic functions

- Wind safety to protect the exterior screens from damage. Also wind direction dependent.
- Sun Automatic including sun tracking to prevent overheating of the building and provide glare control and comfort for the occupants.
- Possibility for the local user to override automatic functions at any time unless safety functions are active.

Installation details

The animeo IP/io Building Controllers and Sub Controllers communicate bi-directionally with the motors through the USB/io Transceiver.
The local radio remote controls also communicate with the USB/io Transceiver.
The connections between motors and local control points are set-up through the animeo IP Visual Configuration Software.
The sensor station is directly linked to the animeo IP/io Building Controller. Each window, group or façade is managed separately depending on the weather conditions and the parameters defined.

1. Sensor Station Extended
2. animeo IP/io Building Controller + USB/io Transceiver
3. animeo IP/io Sub Controller + USB/io Transceiver
4. Maintenance through animeo IP Visual Configuration Software

animeo KNX®

- System topology
- Benefits
- Products
- Project example

animeo KNX

Adaptable façade management system compatible with KNX standards.
Multifunctional Motor Controller to control all types of blinds and window coverings.
Local wired switches and Somfy RTS remote controls can be integrated to the KNX bus using binary inputs.

System topology

Building Controller | 1-8 zones

Weather Station
KNX

Timer KNX

Building Controllers | 1-16 zones

KNX
Operating
software

Weather Station
M8/M13

Master Control W8
8×

Master Control W2
2×

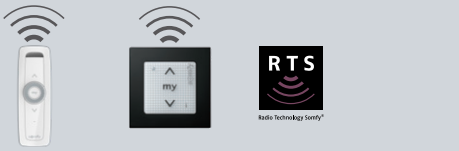
KNX BUS

Local control options

Push button input

Universal binary input

Local radio control or radio control via KNX



Motor Controllers

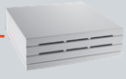
KNX RS485
interface

Wall mounted
for 230 V motors

DIN rail
for 230 V motors

Wall mounted
for 24 V motors

Wall mounted
for 24 V motors
with Encoder
technology



KNX RTS Receiver
433 MHz WM

Motor Controller
6 AC KNX

Pluggable radio modules

Radio
Receiver

EnOcean
Receiver
868 MHz

animeo KNX

Benefits

Intuitive animeo KNX Operating Software

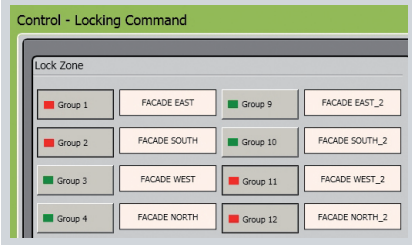
- Simplified programming of all functions, such as wind direction and sun-tracking.

Wind direction measurement

- The blinds move up into the security position only when the façade is affected by wind speed, depending on wind direction. All other areas of the façade remain shaded. In the event of a storm, the blinds on all façades move up.

Energy savings through

- Solar gains from the sun in winter when occupants are absent.
- Diminished slat-turn angles and reduced cooling requirements in summer.
- Intelligent wind protection controlled using only façades affected by the wind. In all other façade zones, the blinds remain in the sun protection position and thus reduce the load for cooling.



Functions integrated with other systems

- Other applications such as lighting, heating, cooling, can be integrated.

High levels of user comfort

- All blinds can be operated locally. The user is able to override the automatic function.

More functions

- Individual sun protection control per façade means improved working conditions in every room.
- Sensors can be used in multiple ways.
- All types of blinds and façade elements can be controlled. 19 different blind and façade elements are available.
- Manual override of automatic orders possible at a room level.

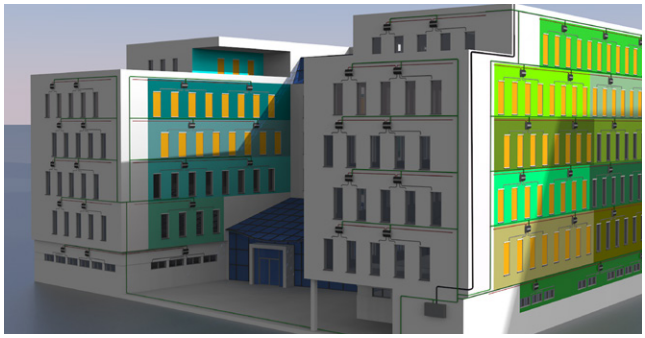
Wall-mounted
Motor Controller

Compatible with all installation environments

animeo KNX

Daylight/shadow tracking

Depending on the time of day and a building's location, shadows move, affecting the level of sunlight in each room. Thanks to Somfy's shadow management solution, each solar shading device is controlled individually or per zone, thereby guaranteeing optimum levels of user comfort.



Benefits

- Better visual comfort for occupants
- Optimisation of standard solar functions
- Reduced use of artificial lighting resulting in energy savings
- Control on a window or a zone basis
- Extends the lifetime of your system due to optimised use

Operating Principle

The shadow management solution enables optimisation of standard solar functions such as sun tracking by activating or deactivating solar shading based on the shadows cast on windows or zones. Shadow management by Somfy is based on 3D modelling of the building carried out in advance taking the following various factors into account:

- The building's architecture
- The building's geographical location
- The number and position of its windows
- The position of neighbouring buildings
- The sun's path relative to the building

The shadow management solution

These details are compiled and recorded in a database which is then provided to the integration project and connected to the existing installation. Based on this analysis, shadow management manages the movement of shadows from one window/zone to another through the use of a sun sensor, located on a mast on the roof of the building, per facade exposed. The shadows cast by the surrounding buildings or changes in weather conditions are managed in real-time. Thus, only windows/zones exposed to the sun have their solar shading lowered.

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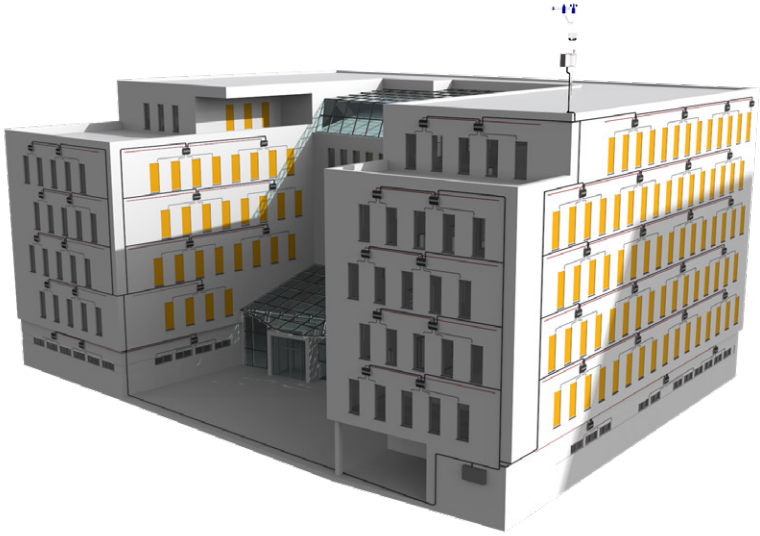
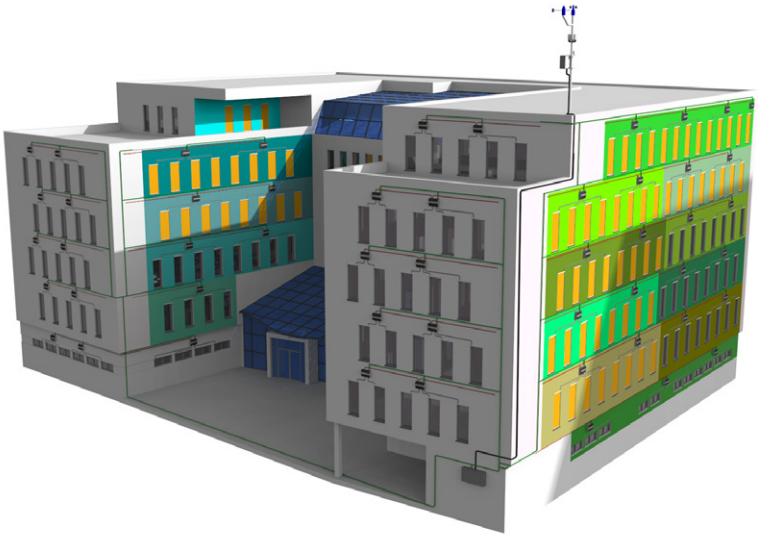
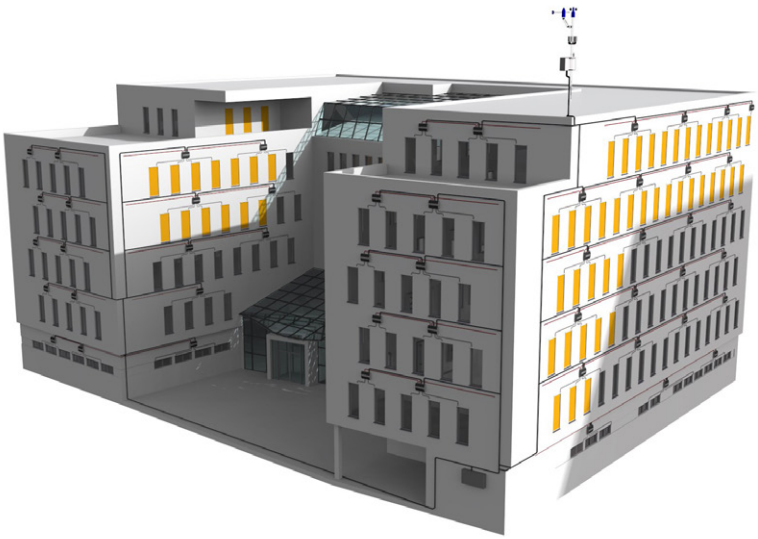
Overview of building with or without daylight/shadow tracking



Without shadow management solution



With zone based shadow management solution



With window based shadow management solution

animeo KNX

Building Controller

Weather Station KNX

The Weather Station KNX is a building controller with advanced functionalities to manage 8 façade areas and all types of blinds.

Product benefits

- Fast installation:
  - Fixing screws
  - Mounting arm for easy alignment of sensor head
  - Cable outlet on the mounting arm
  - Connecting cable with plug
- Compact design: unobtrusive roof or facade installation
- Integrated KNX bus coupling unit
- Integrated GPS/GLONASS Receiver for the automated positioning
- Security sensors for protection of the blinds
- 4 brightness sensors in 4 directions and sensors for twilight, wind speed and -direction, rain, absolute and relative humidity, temperature and total radiation
- Energy optimization through measurement of the global total radiation
- Automatic sun protection algorithm (depending on the position of the sun comfort control)
- Twilight control
- Software logic modules for linking of events
- Integrated heating

Further features

- Compact design discrete on façade or roof.
- Integrated KNX bus coupling unit.
- Software logic modules for linking events.

Dimensions (Ø/h)	130 mm/68 mm
Degree of protection	IP 44
Protection class	III
Supply voltage	24 V
Operating temperature	-30° C to + 60° C

Weather Station KNX	Ref. 1 870 932
Weather Station with timer KNX	Ref. 1 870 947

Shadow Device

The KNX Shadow Device stores the relevant data which is derived from building model provided through Somfy. It is essential in conjunction with the animeo KNX Master Control to realize zone based shadow tracking for buildings.

Product benefits

- The device is provided with a shadow database which is derived from a building model created through Somfy service and expertise.
- The calculated shadow zones can easily be assigned to the façade zones defined in the animeo KNX Master Control.
- A maximum of 5 animeo KNX Master Control units can be linked to one KNX Shadow Device providing 80 shadow zones.
- Connects easily through standard RJ45 network connector to the animeo KNX Master Control.

Further features

- Intuitive network configuration (IP) through a Somfy web page.
- The shadow database can simply be uploaded through an USB port.

Dimensions (w × h × d)	100 × 175 × 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 240 V AC / 50/60 Hz
Operating temperature	-0° C to + 45° C

Shadow Device KNX	Ref. 1 860 252

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Building Controller

KNX Master Control W2/W8

Ref. 1 860 187

Ref. 1 860 193

The animeo KNX Master Control W2/W8 is a building controller which enables zone-based shadow tracking of 16 or more façade areas for a selection of 19 different types of blinds.
The configuration of the façade areas is realized with the animeo KNX Operating Software which reduces the commissioning time.

Product benefits

- The orientation direction of the façades is taken into account in the building's own precise shadow and in the shadow cast by opposite buildings.
- Optimisation of energy consumption through automatic protection of overheating. In cold weather conditions, sunlight is utilised as a natural source of energy.
- The animeo KNX Operating Software can be used independently of the ETS programming tool.
- The Somfy service includes full preparation of the project-related shadow model, as well as expert consultation.
- The weather station (IP 65) is able to define 2 × (W2) or 8 × (W8) wind speed, wind direction, rain, snow, frost, ice, outside temperature and 8 × sun zones.
- The M8 or M13 weather station can ideally be applied for the façade orientations.
- Indoor temperature values can be defined and assigned to zones to gain maximum energy savings.
- Weekly and annual timers are also included and can be integrated freely on the KNX bus.
- Automatic functions can be allocated by the user selectively and can be overridden.
- Monitoring of all weather data for energy optimation.
- All real values can be sent to the KNX bus and viewed at the same time via the Windows graphical user interface on the PC.
- The status of the façades can be called up from memory and the set values, by using a password, can be changed in the menu by the user without prior ETS or KNX knowledge.

Further features

- All safety functions (wind speed, wind direction, rain, snow, frost, ice, outside temperature) are sent cyclically on the bus.
- Using one wind direction sensor, multiple individual wind speed sensors on the façade can be avoided.
- For each of the 16 façades, individual response and delay times can be configured for all available functions.
- Sun tracking for each zone depending on the sun's elevation and azimuth can be configured in the user software.
- The entire configuration of the sun protection control centre is performed using a user-friendly Windows interface.
- Individual façades can be controlled over the operating user interface.
- For maintenance purposes it is possible to block single façades or the complete building over the user interface.

Dimensions (w × h × d)	180 × 182 × 110 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V AC
Operating temperature	0° C to + 55° C

KNX Master Control W2	Ref. 1 860 187

For wall-mounted installation. For 2 wind speed sensors

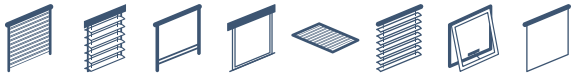
Dimensions (w × h × d)	180 × 254 × 110 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V AC
Operating temperature	0° C to + 55° C

KNX Master Control W8	Ref. 1 860 193

For wall-mounted installation. For 8 wind speed sensors

animeo KNX

Somfy KNX System components



KNX Timer

KNX timer with year timer and year Astro program

Product benefits

- 8 channels
- Text-oriented user guidance in the display
- 800 memory locations
- 8-year power reserve (lithium battery)
- ON/OFF switching times
- Impulse program
- Cycle program
- Extensive annual clock functions
- Astronomical switching function (automatic calculation of sunrise and sunset times)
- Permanent switching ON/OFF
- Integrated hour meter
- Holiday program
- 2 random programs
- Lighted display (can be switched off)
- PIN coding
- Time synchronization directly via the KNX bus or through connection of an external DCF or GPS antenna (with GPS additional position determination for astro program).
- Automatic summer/winter time
- Time and date synchronization from other bus participants

Operating voltage:	110 - 240 V AC
Dimensions (w x h x d)	53,6 x 69,2 x 90,1 mm
Degree of protection	IP20

KNX Timer	Ref. 1 870 941

For DIN rail installation

KNX power supply 640 mA

KNX power supply

Product benefits

- KNX switching power supply with integrated choke
- Can be mounted directly on the DIN rail
- Touch-protected screw connections
- Universal input
- Overload protection by current limitation, auto-recovery
- Protected against short circuit, overload, over-voltage

Dimensions (w x h x d)	52,5 x 90 x 54,5 mm (3TE)
Degree of protection	IP 20
Operating voltage	230 V AC
Rated current	640 mA

KNX Power supply 640 mA	Ref. 1 871 021

For DIN rail installation

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animeo KNX

System accessories

KNX IP Interface

The KNX/IP-Interface is used to connect a PC to the KNX network. The connection is made over the LAN (IP).
The IP address can be obtained by a DHCP server or by manual configuration (ETS) respectively.

Dimensions (w × h × d)	18 × 90 × 56 mm (1 SU)
Degree of protection	IP 20
Protection class	III
Operating temperature	- 5° C to + 45° C
Supply voltage	External supply 12 - 24 V AC / 12 - 30 V DC Alternative: power - over Ethernet
Power consumption	< 800 mW
KNX IP Interface	Ref. 9 018 246

KNX USB Interface

Interface for setting up a bi-directional connection between a PC and the KNX installation bus. The USB connector has a galvanic isolation from the KNX bus.

Dimensions (w × h × d)	18 × 90 × 56 mm (1 TE)
Degree of protection	IP 20
Protection class	III
Operating temperature	- 5° C to + 45° C
Supply voltage	Powered supplied over USB via the PC/laptop that correct operation is due correspond-ing LED is displayed. Power for KNX communication is supplied by the KNX bus.
Power consumption	< 800 mW
KNX USB Interface	Ref. 9 018 243

KNX IP Router Secure

Compact KNX secure IP Router enables the forwarding of telegrams between different lines over LAN (IP) as a fast backbone. The device also serves as a programming interface between a PC and the KNX bus (e.g. for ETS programming). The device supports KNX Security. The option can be activated in the ETS. As a secure router, the device enables pairing unsecured communication on a KNX TP line with a secure IP backbone. Also with the interface function (tunneling) KNX Security prevents unauthorized access to the system.

Dimensions (w × h × d)	18 × 90 × 56 mm (1 TE)
Degree of protection	IP 20
Protection class	III
Operating temperature	- 5° C to + 45° C
Supply voltage	External supply 12-24 V AC
Power consumption	< 800 mW
KNX IP Router Secure	Ref. 9 027 562

animeo KNX

Motor Controller

KNX 4 AC Motor Controller

For roller shutters, screens, exterior venetian blinds and windows.
To control 4 × 230 V AC motors.

Product benefits

- Cost savings through use of 8 freely-definable binary inputs.
- Upgradable for local operation by radio.
- User-friendly and intuitive parameter settings in the ETS software.
- Intelligent switching between manual and automatic operation to guarantee excellent user-friendliness and energy savings.
- Extendability: Extendable with the animeo RTS radio module. Without any additional wiring investment, 4 motors can be controlled individually or in a group by radio using the Somfy RTS Technology.

Further features

- Position feedback per motor output during movement and when reaching the top and bottom end position.
- Two different safety positions freely definable for each individual motor output.
- Safety position after mains voltage return freely definable.
- Automatic cascading of the outputs with mains voltage return and bus safety function to minimise current peaks.
- The device can be used "out of the box", without requiring programming with the ETS software.
- Mixed systems: in contrast to Motor Controllers based on the Somfy Controlling Technology, with KNX different motor types can be connected to one Motor Controller device (e. g. for venetian blinds, screens, windows).
- Advanced operating mode: greater user comfort through local disabling of non-security commands (e. g. sun) as soon as local operation is assigned. At a defined time, the system switches back to automatic again.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Max. current consumption	max. 3.15 A per output

KNX 4 AC Motor Controller WM	Ref. 1 860 114

For wall-mounted installation.

KNX 4 DC Motor Controller

For interior blinds, interior venetian blinds and windows. To control 4 × 24 V DC motors. External 24 V DC power supply required

Product benefits

- Cost savings through use of 8 freely-definable binary inputs.
- Clear, self-explanatory ETS index cards.
- Configurable slat tilting speed for optimum user ergonomics.

Further features

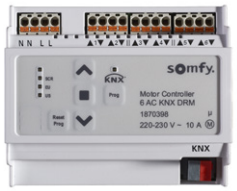
- Output protected through current detection.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	240 V DC
Operating temperature	0° C to + 45° C
Output voltage	24 V DC
Max. current consumption	max. 2,1 A per output

KNX 4 DC Motor Controller WM	Ref. 1 870 452

For wall-mounted installation.

Motor Controller 6 AC KNX



Motor Controller for electrical cabinet (DRM). Compatible with exterior venetian blinds, screens, roller shutters, windows openers and with all animeo KNX devices.

Product benefits

- Modern push-in CAGE CLAMP® connectors for any wire type (flexible or rigid cable) for any cable connection on the device.
- 6 individual motor outputs (motors neutral and safety wires (earth) connected on the electrical cabinet).
- Push-button on the device to validate the motor wiring direction.

Further features

- Status feedback through LEDs.
- Access for software updates in case of functional evolution.

Dimensions (w × h × d)	108 x 90 x 60 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 230 V AC / 50/60 Hz
Operating temperature	-5° C to + 50° C

Motor Controller 6 AC KNX	Ref. 1 870 398

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animeo KNX

KNX / RS485 Motor Controller

KNX RS485 Motor Controller WM

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

Product benefits

- Flexible installation: suspended ceiling/raised floor, under-window or wall-mounted wiring channels.
- Quick installation and connection of the motor controller through:
  > Plug and play solution.
  > Cable tension relief points to tighten cables to the housing of the product

Further features

- With the Somfy SDN configuration software the motor settings can be done before configuring via ETS software.
- 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 monitored.
- Using dedicated Byte telegram both for switches and/or automatic commands, the blind can be moved to numerous intermediate positions.

RS485 motors can be connected to the RS485 Bridging Adapter, ref. 9019004. Different motor types can be used.

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V DC
Operating temperature	- 5° C to + 50° C
Nominal current consumption KNX bus	<= 12.5 mA DC

KNX RS485 Motor Controller WM	Ref. 1 860 286

For wall-mounted installation.

RS485 6 x RJ45 Bridging Adapter

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

Product benefits

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

Dimensions (w × h × d)	103 × 39,9 × 26,5 mm

RS485 6 x RJ45 Bridging Adapter	Ref. 9 019 004

RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

Product benefits

- Easy plug in RJ45.

Dimensions (w × h × d)	11,7 × 21,5 × 7,9 mm
Operting temperature	- 30° C to +90° C

RS485 Terminator	Ref. 9 019 005

DIN-rail adapter

For installation on 35 mm DIN-rail to mount circuit board versions CD 2 × 1 P6, CD 1 × 4 P6, animeo 1 AC/2 AC Motor Controller PCB.

Dimensions (w × h × d)	70 × 105 × 23 mm

DIN-rail adapter	Ref. 9 008 049

For 35 mm DIN-rail, colour; black, 4 SUs

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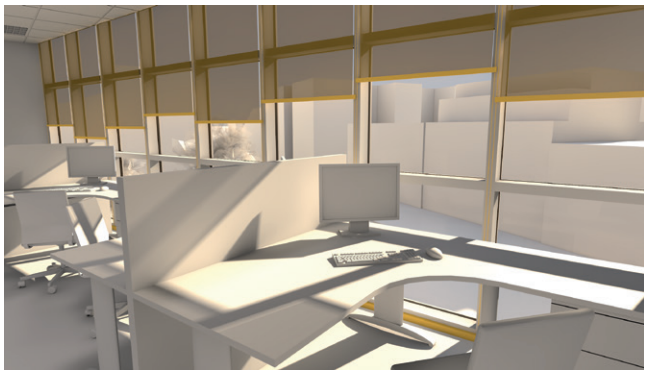
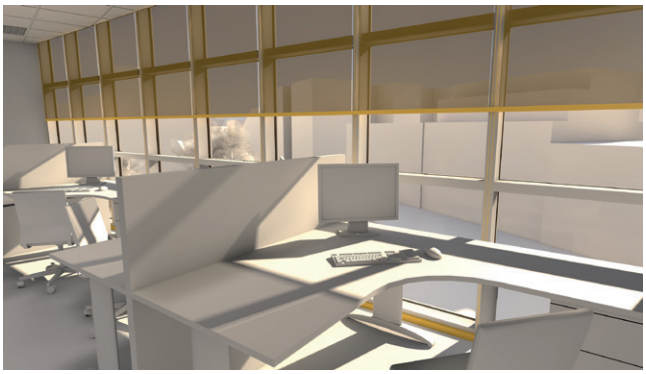
KNX / RS485 Motor Controller

- Perfect alignment
- Numerous intermediate positions
- Precise motor positioning feedback
- Precise façade design

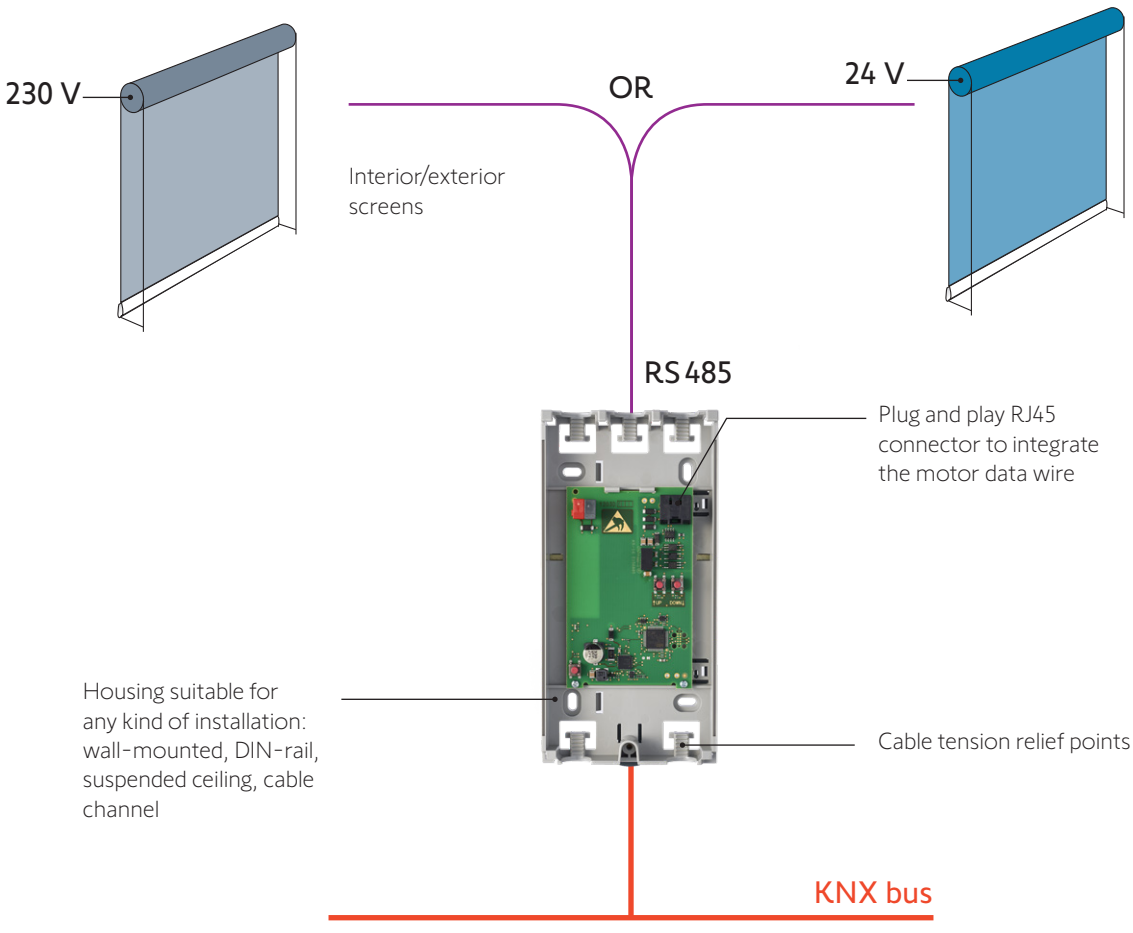


With standard motor



With the digital RS485 motor

Able to control up to 18 motors individually



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Accessories

RS485 Setting tool

An intuitive tool for blind makers to set the parameters (e.g. end limits) of the motors before or during installation on site.

female connector for fast connection.

Product benefits

- Display with 2 lines (16 characters per line) RJ45

Dimensions (w × h × d)	117 × 79 × 24 mm
Degree of protection	IP 30

RS485 Setting Tool	Ref. 9 017 142

SDN Configuration tool

The all-inclusive tool for RS485 systems.
The SDN Configuration Tool is a single tool that controls a full façade or building via easy access on site.

Product benefits

- This intuitive tool makes commissioning much easier, from configuration to diagnostic.

Further features

- Setting motor limits and groops.
- Setting switch configurations
- Updating the motor firmware

For additional information, please contact SOMFY.

KNX RTS Receiver 433 MHz WM

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. It is simply powered over the KNX bus network.

Product benefits

- 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 transmitters per input. The application per radio in input is freely defineable.

Further features

- Suitable for visible or non visible wall-mounting environments 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.

Dimensions (w × h × d)	81 × 81 × 25 mm
Protection class	II
Supply voltage from KNX bus	KNX voltage 21 ...32 V DC, SELV
Operating temperature	-5° C to + 50° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls
Degree of protection	IP 20

KNX RTS Receiver 433 MHz WM	Ref. 1 860 292

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Motors

Sonesse 30 RS485

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

Type of head	Thin
Diameter	28
Degree of protection	IP 30
Protection class	III
Operating temperature	0° C to + 60° C
Supply voltage	24 V DC
Speed with load	Adjustable speed from 10 to 28 rpm
Torque	2 Nm
Limit Switch Unit	Digital

Sonesse 30 DC RS485 2/28	Ref. 1 241 145

Sonesse 40 RS485

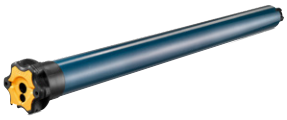
The digital solution with the new acoustic standard for interior blinds.

Type of head	Round
Diameter	37
Degree of protection	IP 31
Protection class	II
Operating temperature	0 C to + 60° C
Supply voltage	230 V AC
Speed with load	12, 20 or 30 rpm
Torque	3 - 9 Nm
Limit Switch Unit	Digital

Sonesse 40 RS485 3/30	Ref. 1 240 555
Sonesse 40 RS485 6/20	Ref. 1 240 557
Sonesse 40 RS485 9/12	Ref. 1 240 558

The motors listed above are a selection from the full motor range.
For more details, please contact you local Somfy partner

LT50 RS485



The proven digital 50 mm diameter for blinds and screens.

Type of head	Star
Diameter	47
Degree of protection	IP 44
Protection class	I
Operating temperature	- 20° C to + 60° C
Supply voltage	230, 120, 100 or 220 V AC
Speed with load	17 or 32 rpm
Torque	6 - 35 Nm
Limit Switch Unit	Digital

LT50 RS485 6/32	1 002 494
LT50 RS485 15/32	1 002 495
LT50 RS485 6/17	1 002 496
LT50 RS485 15/17	1 002 497
LT50 RS485 35/17	1 002 498

The motors listed above are a selection from the full motor range.
For more details, please contact you local Somfy partner

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Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits

Further features

M8

- 8 sensors to collect the external conditions in 4 different orientations.

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

- 13 sensors to collect the external conditions in 8 different orientations.

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Mounting accessories for Weather station M8/M13

Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335
Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket (2 pieces)	Ref. 1 860 336
Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321
Kit Mast with 25 mm adaptor (3 x Mast, 2 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm
Bracket for Weather Station	Ref. 1 860 320

Lightning protection

To protect the controls from lightning. Used in conjunction with the Outside Sensor Box or Compact Sensor.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706
DIN-rail bracket for bus lightning protection	Ref. 9 014 897

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Sensors and accessories

Outside Sensor Box

The Outside Sensor Box is the interface between the weather station and the animeo KNX Master Control W2 / W8. All measurement values are evaluated here and sent to the animeo KNX Master Control W2 / W8. It requires an external 24 V AC/DC power supply.

Product benefits

- Convenient lightning protection – only two cables (power supply 24 V AC/DC and data cable) need to be laid to the outside.

Further features

- All sensors incl. Outside Sensor Box can be fixed to the Sensor Station mast.
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor.

Dimensions (w × h × d)	235 × 207 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC/DC
Operating temperature	-30° C to + 70° C

Outside Sensor Box	Ref. 9 001 606

For wall-mounted installation.

animeo Power Supply DC

To supply the Outside Sensor Box (with heated sensors), the animeo KNX Master Control W2/W8.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100 %) 4.5 A (switch on duration 50 %: 3 min. on, 3 min. off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

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Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm²
Wind Sensor	Ref. 9 001 608

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.
- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²
Wind Direction Sensor	Ref. 9 013 807

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Further features

- Precise measurement of exterior temperature values which can be displayed in °C or °F in the KNX Master Control W2/W8 solution.
- Protective housing to prevent measurements influenced by spiders and birds
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2 × 0.8 mm
Outside Temperature Sensor	Ref. 9 001 611

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Sensors and accessories

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard 50 mm diameter mast.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3 × 1.5 mm

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150 °

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Dimensions / mast height	3200 mm

Sensor Station	Ref. 9 013 726

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station extended	Ref. 9 013 727

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Local controls

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

Pure shine	Ref. 1 810 881
Black shine	Ref. 1 810 882
Silver shine	Ref. 1 810 883
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

For wall-mounted installation.

Smoove frames

Smoove frames

Pure	Ref. 9 015 268
Silver Matt	Ref. 9 015 293
Black	Ref. 9 015 565
Double frame pure	Ref. 9 015 238

Smoove Origin RTS

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove Origin RTS	Ref. 1 810 880

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Project example

Functionality required and specified by the building owner.

- Unlimited number of zones to control zip-screens.
- Interaction with lighting and HVAC system.
- Zone based shadow tracking management.
- Control of blinds and light through Somfy RTS.

Links to sensors
Bus line KNX
Power supply
Motor cable

Products installed

KNX Master Control
Ref. 1 860 187

KNX 4 AC Motor Controller
Ref. 1 860 114

Weather Station M8/M13
Ref. 1 860 306
Ref. 1 860 307

KNX-RTS Receiver
Ref. 1 860 292

Situo 5 Variation RTS
Ref. 1 811 608

Smoove Origin IB
Ref. 1 811 272

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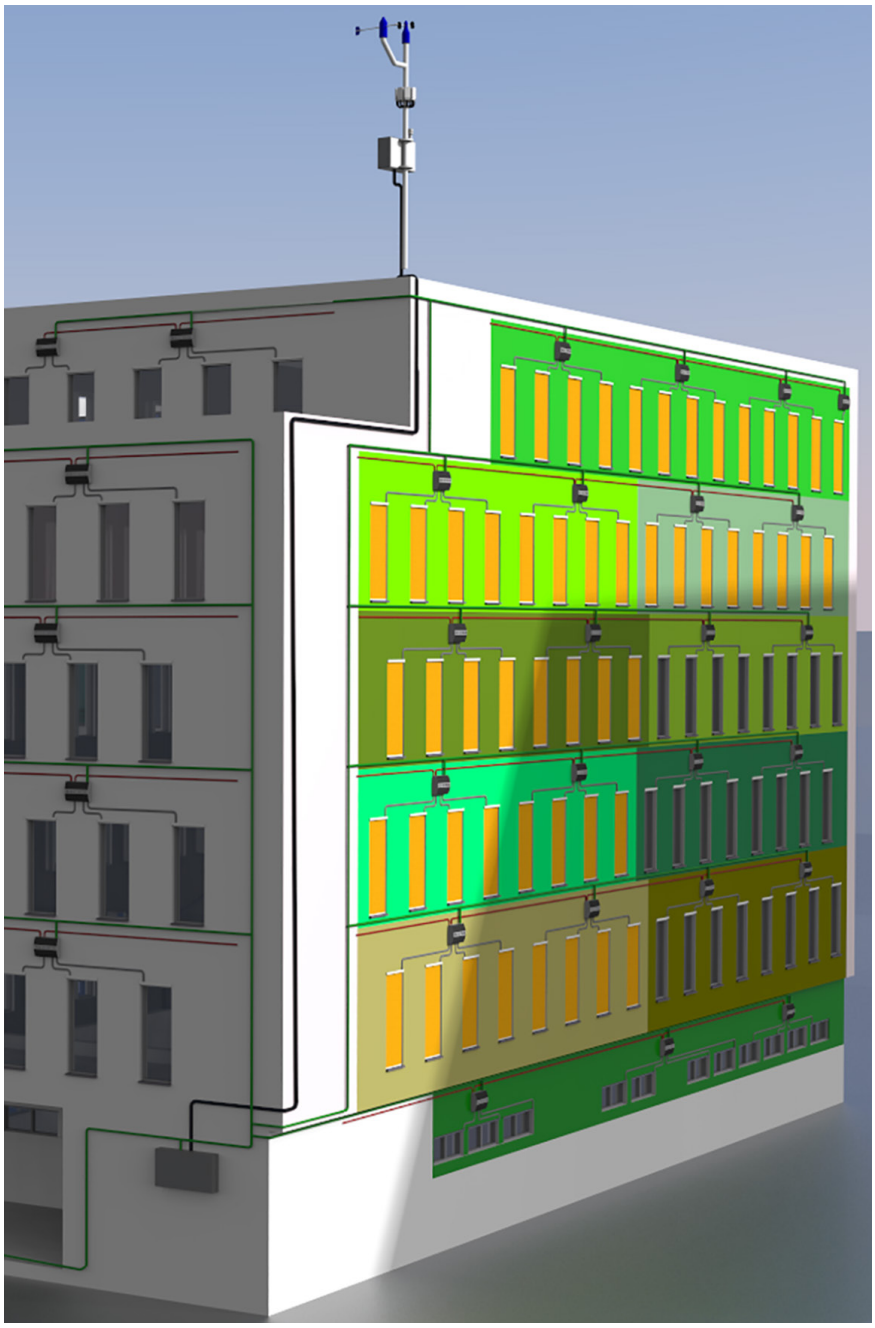
Automatic functions

- Wind safety, based on wind speed and wind direction meassurements.
- Sun automatic with sun tracking including zone based shadow tracking to provide a maximum of user comfort and energy saving.
- Movement detectors are used to switch between the energy saving mode and comfort functions. The movement detectors are integrated into the bus system using the universal binary inputs of the Motor Controller.

Installation details



All the Motor Controllers are connected to the same KNX network via the animeo KNX Master Control.

One KNX Building Controller enables to creation of up to 16 zones. Additional zones can be created by adding more KNX Master Controls.

The Sensor Station is directly linked to the KNX Building Controller and each zone is separately managed depending on the weather and other parameters to be defined.

1. Sensor Station/ Weather Station M8/M13
2. animeo KNX Master Control
3. animeo KNX Motor Controller

Maintenance

Optimizing your adaptive solar shading system shouldn't end when the installation and commissioning is finished

You naturally want the best performance and longevity from your system, whilst avoiding any unnecessary downtime and disruption. This is why our maintenance options not only provide peace of mind that these important goals are covered from day one, delivering the best results for your building 24/7, 365 days a year.

Increased comfort and energy savings
We don't just maintain your system, we keep it optimized, giving occupants maximum comfort and ensuring a continued focus on energy efficiency, CO_2 emissions and sustainability.

Minimize downtime and unexpected repair costs
Our expert, locally based teams can detect any issues at an early stage, before they have the chance to evolve into something that could potentially cause downtime or disruption. And with our maintenance options, you benefit from priority status, meaning you will get the fastest support possible.

In addition to the maintenance of the controls and sensors, we can (depending on the chosen options) also report on the condition of the sun protection itself on the basis of vision inspection.

In-use training
How your controls are used day to day is vital for performance levels. Our local team can train your building or facility managers and other key personnel on how to control your solar shading for the best results.

Remote monitoring, daily
We will enable real-time remote monitoring of your dynamic solar shading installation. Once enabled, remote monitoring alerts our team about maintenance problems as and when they arise in your building, meaning we can act quickly to tackle the problem.

Somfy remote assistance and monitoring
We will remotely monitor the performance and status of your dynamic solar shading installation, on a daily basis. This means you'll benefit from:

- Real time reporting of errors, deviations and malfunctions
- Quick diagnosis and swift resolution of problems, as soon as they occur
- Potential remote resolution, where applicable
- Remote assistance to facilitate system settings changes, to suit building routines/preferences/ seasonal changes
- Safe, secure and reliable remote assistance

Your solar shading. Your maintenance needs.
Your choice We have a number of flexible maintenance options to choose from, so you can select the one that suits your needs and budget.
To talk to our team about the best option for you, get in touch and we'll ensure you get a level of service that fits both your building and your budget.

Somfy Projects UK (Head office)
Unit 7, Lancaster Way, Airport West
Yeadon
United Kingdom
LS19 7ZA

Somfy Projects UK
Level 4, Kingsgate House,
62 High Street
Redhill,
United Kingdom
RH1 1SG
T.(44) 113 391 3030
projects.uk@somfy.com
www.somfy.co.uk/projects

Somfy Norway AS
Industriveien 27D
2020 – Skedsmokorset
Norway
T.(47) 415 76 639
prosjekt.no@somfy.com
www.somfy.no/prosjekt

Somfy Nederland B.V.
Jacobus Ahrendlaan 1
2132 LP Hoofddorp
Nederland
T.(31) 23 55 44 900
Projecten.nl@somfy.com
www.somfy.nl/projecten

Somfy Sweden AB
Arenagatan 20
215 33 Malmö
Sweden
T.(46) 40 165900
Projekt.se@somfy.com
www.somfy.se/projekt

Somfy Belux NV
Ikaroslaan 21
B-1930 Zaventem
Belgium
T. (32) 2 712 07 70
Projects.be@somfy.com
www.somfy.be/projets (FR)
www.somfy.be/projecten (VL)

Somfy Danmark
Dosseringen 20-B
DK-5300
Kerteminde
Denmark
T.(45) 65325793
projekt.dk@somfy.com
www.somfy.dk/projekt

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