



Day/Night Roller Blinds Product Brochure

living with style

shadow
SYSTEM



Day/ night roller blinds – an innovative internal sunlight protection system which, thanks to its versatility and modern design, enjoys ever greater interest from our Customers. Thanks to the use of a fabric with alternating bands of various levels of transparency it allows smooth adjustment of the darkness level; the Day/ Night window blind is a fusion of the functions of an ordinary fabric-based blind and the capabilities of horizontal Venetian blinds. The practical aspect that additionally influences the growing popularity of this product is the fact that the Day/ Night blind not only protects the inside from the sun, but it is also a modern and stylish decoration piece.

Accommodating the expectations of our customers, we have prepared a rich offer of systems dedicated to Day/ Night window blinds, creating the opportunity to use them with practically any kind of window. Basing our products on components supplied by European top suppliers, we pay particular attention to the quality of our goods, not forgoing aesthetics and the significance of minor details.

The entire range of Day/ Night window blinds offered by **Shadow-System** includes:

- **Day/ Night free hanging roller blinds** – recommended particularly for protecting large windows and entire niches. Free-hanging blinds can also be installed both inside the window opening as well as in front of it. Our offer includes two systems for free-hanging Day/ Night window blinds: **the Medium range**, based on the Decomatic [DRM] system by Gemany Bethin, and the **Smart range [DRSM]** based on components by the Dutch company **Coulisse**.
- **Wing-hung Day/ Night window blinds [DRN]** – reduced outside dimensions blinds fixed directly at the window pane on the window wing frame, optically forming a single component with it. Due to their small size and placement right at the window pane they take up no extra space in the room, as is usually the case with free-hanging window blinds. The wing-hung Day/ Night blinds are available in two variants: **Basic** and **Ultimate**.
- **Technical information** – arrangement of the Day/ Night fabric bands
- **Electric motors and control units** – **SOMFY**®, **COULISSE** and **VESTAMATIC**® – solutions and details.

Decomatic®
5 - 8
Smart
9 - 12

Details
on pages
13 - 17

18 - 19

20 - 28



DECOMATIC

coulisse
DECORATION SOLUTIONS



SHADOW-SYSTEM is a Polish company from the Tri-city area with over 20-year experience in production of exclusive window products. Our main goal is to find and offer our customer an optimal solution for the window decoration so that our premium blinds, produced with greatest care, bring full satisfaction from the every-day use. Our mission is to create the market of cover products, combining the highest quality, functionality and aesthetics.



Thanks to modern control systems, the window blinds offered by Shadow-System may be controlled by phone or tablet from any place in the world. The rich product offer in terms of control systems and remote control units will help you find the optimum solution for any interior.

A particular innovation that is noteworthy are battery-operated motors that do not require a permanent power cable to be routed. The drive has a built-in battery, which, for standard use (one cycle per day) only needs to be charged two or three times per year. The installation of a window blind equipped with a battery-powered motor practically takes the same amount of time that it takes to install a standard window blind, requires no specialised knowledge or cabling. The battery motor can be controlled remotely from your phone, remote control unit or using an aesthetically pleasing chain, a tug on which will start or stop the window blind motor.

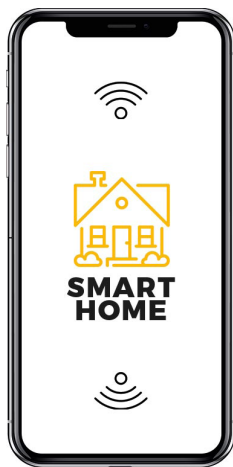
CONTROL COMFORT
Thanks to Somfy and Coulissee applications, you can control your window shutters from any place in the world.



COMPATIBILITY
with more than 100 Somfy products. The household appliances of leading producers are compatible with TaHoma Premium.



EXTENSION OPTION
You do not have to consider everything in your house design. It provides you with the convenience of adding subsequent devices depending on your needs.



EVERYDAY COMFORT
With one click you control the safety and comfort of your home dwellers.



USER FRIENDLY
An intuitive interface thanks to which the control of household devices becomes exceptionally simple and easy.



ANDROID / iOS
Mobile applications for Somfy and Coulissee drives are available on Sklep Play and App Store platforms.



somfy.

coulisse
DECORATION SOLUTIONS

More technical information on electric motors on pages 20 - 28.



Employees. We believe that people create the company's value and determine its success. Highly qualified and experienced employees are a guarantee of highest quality of the products we produce. The core of our staff consists of experienced employees, attached to the company from almost the very beginning of its existence, who with their knowledge and experience support the new ones who have just started their adventure with our company. All our customers can count on comprehensive and professional support from our employees in order to obtain the product which is best tailored for their needs and expectations.

DAY/NIGHT BLINDS - FREE HANGING

TYPES AND DIMENSIONAL RANGES FREE HANGING ROLLER BLINDS DAY/NIGHT

Benthin Decomatic

Coulisse

		MEDIUM - DRM			SMART - DRSM	
		support profile	round cassette	square cassette	support profile	semi open cassette
TYPES OF CONTROL	Chain					
	Motor					
	Side guide					
	SIM bottom weight					
		DRM11 max. width 280 cm height 300 cm*	DRM12 max. width 280 cm - height 240 cm*	DRM13 max. width 280 cm - height 240 cm*	DRSM11 max. width 230 cm - height 260 cm*	DRSM14 max. width 230 cm - height 260 cm*
		DRM61 max. width 280 cm height 300 cm*	DRM62 max. width 280 cm - height 240 cm*	DRM63 max. width 280 cm - height 240 cm*	DRSM61 max. width 230 cm - height 260 cm*	DRSM64 max. width 230 cm - height 260 cm*
		DRM11 DRM61	DRM12 DRM62	DRM13 DRM63	DRSM11 DRSM61	DRSM14 DRSM64
		DRM11 DRM61	DRM12 DRM62	DRM13 DRM63	DRSM11 DRSM61	DRSM14 DRSM64

* DEPENDING ON MATERIAL TYPE

FREE HANGING DAY/ NIGHT BLINDS- DRM

DRM window blinds are manufactured using Decomatic Medium system components, a tried and proven system by German Benthin. The Decomatic system is a guarantee of top component quality that translates to long-term failure-free operation of the products made using them. The utilised technology allows for the coverage of not only individual window wings but also entire niches – DRM window blinds are the perfect choice to cover large window surfaces. The Medium series features two control variants: by chain or by electric drive.



Technical data: Decomatic Day/ Night window blinds

Maximum dimensions:	width 280 cm * height 300 cm *
Maximum fabric weight:	5 kg
Roller tube diameter:	Ø29 mm - Ø38 mm - Ø44 mm

Colour:

**RAL
9016**

WHITE

**E6
EV1**

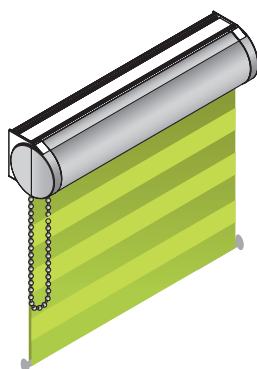
SILVER

**RAL
9005**

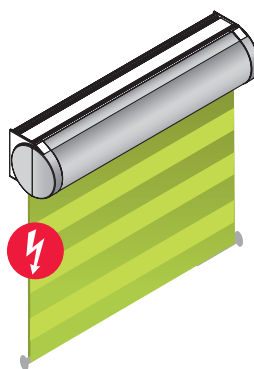
BLACK

* depending on material type

Types of mechanisms:



1. chain



2. electric motor

Motors for Medium roller blinds:

somfy.

Sonesse ULTRA 30 WF RTS Li-Ion



somfy.

Ultraquiet 12 V drive for mid-sized free-hanging window blinds, powered by built-in rechargeable battery. Controlled by remote controls and switches using RTS technology. Simple installation without the need to hire an electrician.

Sonesse 30 RTS



somfy.

Highest torque motor from among all 24 V Somfy motors. Adjustable rotation speed of the drive (6-28 RPM). Very low noise level – below 44 dB.

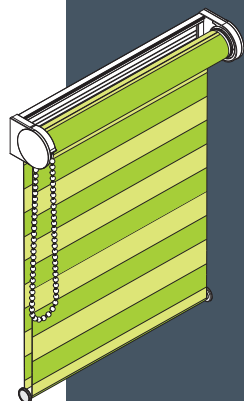
Sonesse 40 PA / RTS



somfy.

Compact and quiet motor for external blinds – less than 45 dB in operation; 230 V AC powered. Available in two versions: PA – cable-controlled, RTS – radio-controlled.

More technical details on the electric motors can be found on pages 20 - 28.



DRM11 - endless chain
DRM61 - electric motor
Window blind on support profile

with chain operation or electric motor

width:	max. 2,80 m
height:	max. 3,00 m
mounting:	wall or ceiling
control:	type DRM11 / endless chain type DRM61 / electric motor
control side:	optionally left or right
working length:	standard 75% of window blind height

ADDITIONAL OPTIONS



side guide

p. 12



metal chain

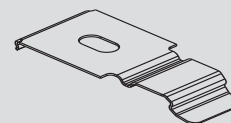
p. 12



SIM bottom weight

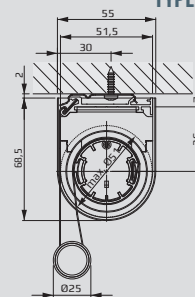
p. 12

STANDARD MONTAGE

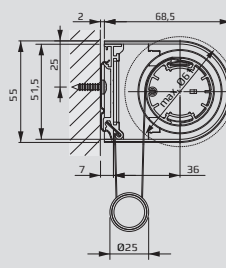


flat clip

TYPES OF MOUNTING

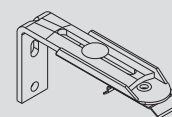


ceiling mounting

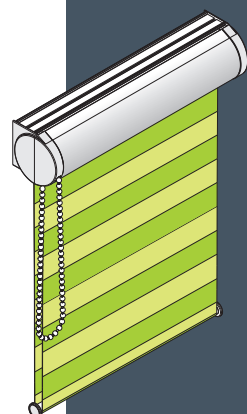


wall mounting

OPTIONAL MONTAGE



adjustable bracket
 (60 - 108 mm
 108 - 156 mm
 156 - 204 mm)



DRM12 - endless chain
DRM62 - electric motor
Window blind in round cassette

with chain operation or electric motor

width:	max. 2,80 m
height:	max. 2,40 m
mounting:	wall or ceiling
control:	type DRM12 / endless chain type DRM62 / electric motor
control side:	optionally left or right
working length:	standard 75% of window blind height

ADDITIONAL OPTIONS



side guide

p. 12



metal chain

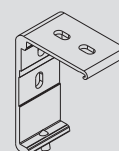
p. 12



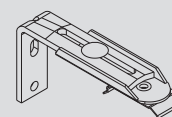
SIM bottom weight

p. 12

STANDARD MONTAGE

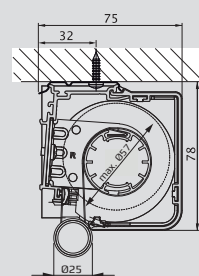


bracket 33 mm

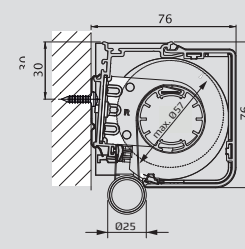


adjustable bracket
 (60 - 108 mm
 108 - 156 mm
 156 - 204 mm)

TYPES OF MOUNTING



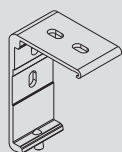
ceiling mounting



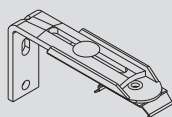
wall mounting

! The cassette has a limited capacity. A thick fabric greatly reduces the maximum order height of the window blind

STANDARD MONTAGE

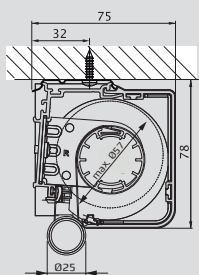


bracket 33 mm

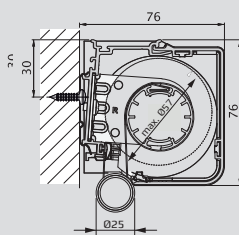


adjustable bracket
(60 - 108 mm
108 - 156 mm
156 - 204 mm)

TYPES OF MOUNTING



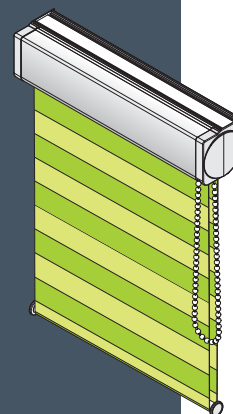
ceiling mounting



wall mounting

DRM13 - endless chain DRM63 - electric motor Window blind in square cassette with chain operation or electric motor

width:	max. 2,80 m
height:	max. 2,40 m
mounting:	wall or ceiling
control:	type DRM13 / endless chain type DRM63 / electric motor
control side:	optionally left or right
working length:	standard 75% of window blind height



ADDITIONAL OPTIONS



side guide

p. 12



metal chain

p. 12



SIM bottom weight

p. 12

! The cassette has a limited capacity. A thick fabric greatly reduces the maximum order height of the window blind.

FULL CONTROL OF SUNLIGHT ACCESS

THANKS TO THE USE OF DAY/NIGHT FABRIC IN EXTERNAL WINDOW BLINDS

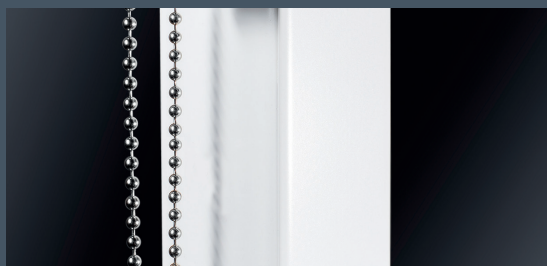
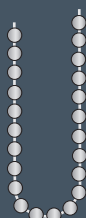


ADDITIONAL OPTIONS FOR DAY/NIGHT WINDOW BLINDS USING THE MEDIUM SYSTEM



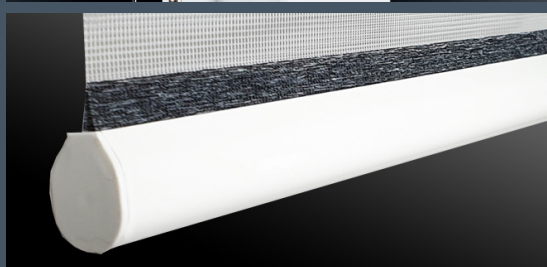
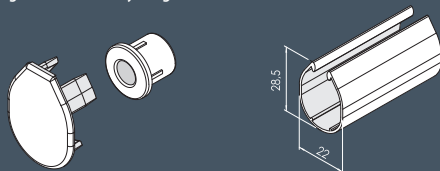
METAL
CHAIN

Metal chain – a handling component of the window blind utilised instead of a standard PVC chain in order to provide the blind with an elegant and modern look.



SIM
BOTTOM
WEIGHT

SIM bottom weight – oval-shaped, integrated with the rotary roll, hidden inside the ballast through which the Day/ Night fabric moves.



SIDE
GUIDE

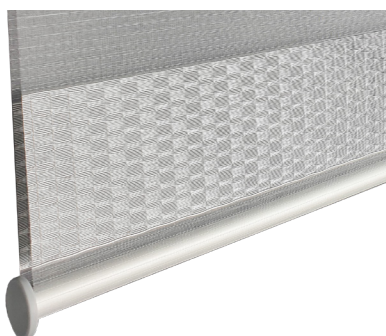
Side guide – a system of nylon cords installed along the side edges of the blind, responsible for holding the window blind material and ballast at the window frame surface during opening or tilting of the window.

IMPORTANT!

The side guide may only be used with the Standard ballast



BALLAST TYPES FREEHUNG WINDOW BLINDS



STANDARD ballast Ø13 mm
(plug Ø25 mm)



SIM bottom weight

DAY/NIGHT SMART ROLLER BLINDS - DRSM

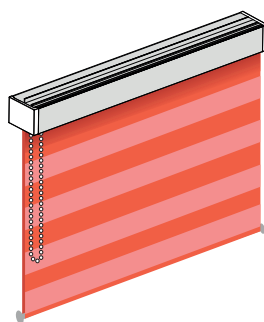
Smart range (DRSM) – a system of Day/ Night window blinds in two control variants: chain control or electric motor. The battery powered motors for this system demand particular attention; thanks to them, the window blinds can be installed without any specialised knowledge, and no cables need to be routed to the window blind. The Smart range offers a broad selection of colourful support profiles and side covers, allowing the Day/ Night window blind to fit in easily with the design of any interior. The components and electric motors are supplied by the Dutch company Coulisse.



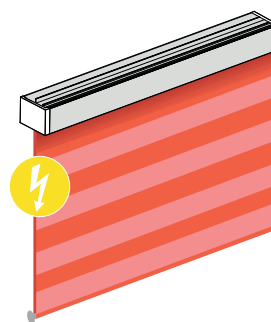
Technical data: Smart Day/ Night	
Maximum dimensions:	width 230 cm * height 260 cm *
Maximum fabric weight:	2,24 kg**
Roller tube diameter:	Ø28 mm - Ø30 mm - Ø35 mm
Standard colour (aluminium):	depending on model type
Optional colour (metal):	 WHITE  BEIGE  GREY  BROWN  BLACK  ANTRACITE
	 STAINLESS STEEL  ALUMINIUM  BLACK NICKEL  OLD BRASS
DRSM14	

Types of mechanisms

*depending on material type
** depending on roller tube type



1. chain



2. electric motor

Motors for Smart roller blinds:

coulisse
DECORATION SOLUTIONS

CM-02 Pull Motion



coulisse

Wireless motor powered by an integrated Li-Ion battery, manually actuated by chain – **pulling on the chain causes the motor to start**. Simple installation without the need for any technical tools.

CM-03 Pull Motion + Remote



coulisse

Wireless motor powered by an integrated Li-Ion battery with built-in receiver, controlled remotely – by remote control unit, by wall switch or manually by a chain – **pulling on the chain causes the motor to start**.

More technical details on the electric motors can be found on pages 28.



COULISSE BATTERY MOTORS

The COULISSE motors and electric controls are innovative solutions which, thanks to wireless motors, are very simple in installation and operation. They offer automation of roller blinds without the necessity of leading any cables.



PULL MOTION (CM-02). Actuation using the chain is the simplest version of window blinds. A pull on the chain causes the motor to be actuated. Beside raising and lowering of the blinds to their end positions, a comfort position can also be programmed.



Watch a video:
CM02 - controlled with a chain.
<https://youtu.be/oOtnGcNXsFg>



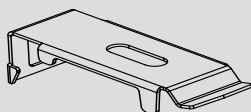
PULL MOTION + REMOTE (CM-03). Operation by chain or remote control unit, by wall switch or app. The CM-03 motor has a built-in receiver that enables wireless control of the window blind using a remote control unit or wall switch. Together with the additional Wi-Fi Bridge module, it is possible to operate the window blind using the mobile app from any location.



Watch a video:
CM03 - controlled with a chain and remote control.
<https://youtu.be/sPbVDajO9vw>

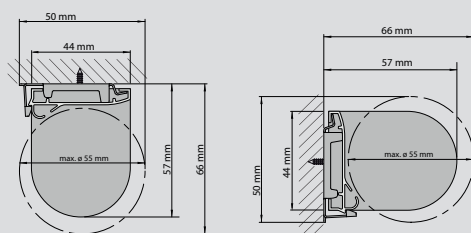


STANDARD MONTAGE



clip

TYPES OF MOUNTING

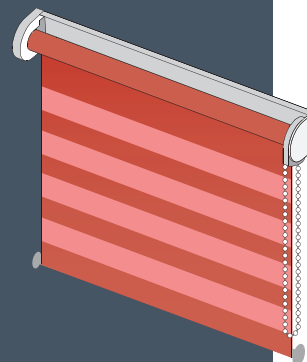


ceiling mounting

wall mounting

DRSM11 - endless chain DRSM61 - electric motor Window blind on support profile with chain operation or electric motor

width:	max. 2,30 m
height:	max. 2,60 m
control:	type DRSM11 / endless chain type DRSM61 / electric motor
control side:	optionally left or right
working length:	standard 75% of window blind height
mounting:	wall or ceiling



ADDITIONAL OPTIONS



side guide

p. 16



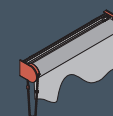
metal chain

p. 16



SIM bottom weight

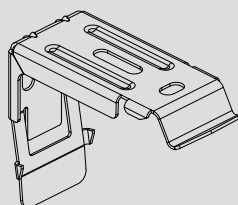
p. 16



decorative set

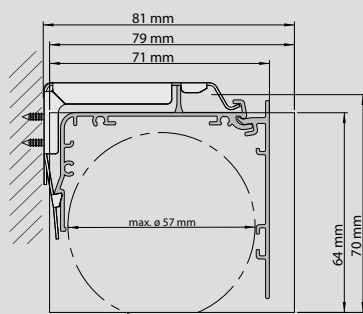
p. 16

STANDARD MONTAGE



bracket

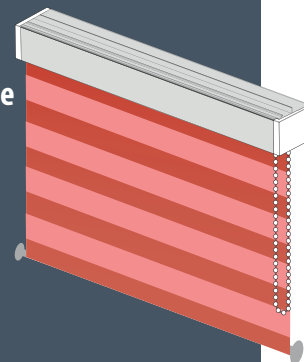
TYPES OF MOUNTING



wall mounting

DRSM14 - endless chain DRSM64 - electric motor Window blind in metal semi-open cassette with chain operation or electric motor

width:	max. 2,30 m
height:	max. 2,60 m
control:	type DRSM14 / endless chain type DRSM64 / electric motor
control side:	optionally left or right
working length:	standard 75% of window blind height
mounting:	wall or ceiling
colour scheme:	stainless steel, aluminium



ADDITIONAL OPTIONS



side guide

p. 16



SIM bottom weight

p. 16



metal chain

p. 16

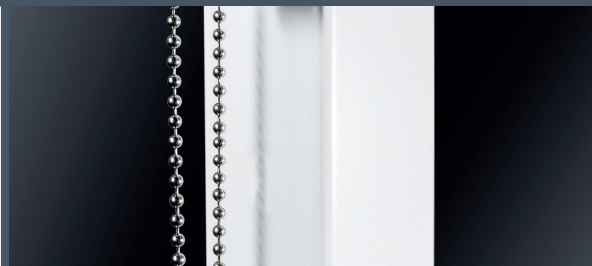
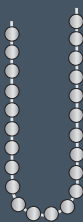


ADDITIONAL OPTIONS FOR DAY/NIGHT WINDOW BLINDS USING SMART SYSTEM



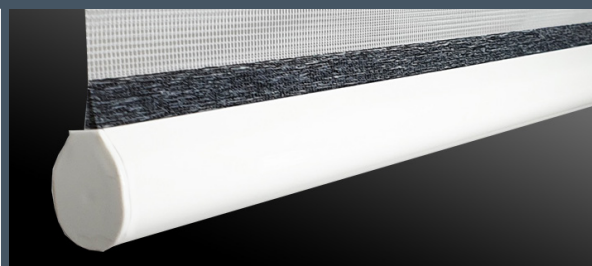
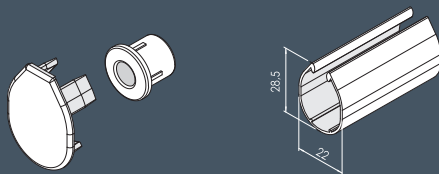
METAL CHAIN

Metal chain - a handling component of the window blind utilised instead of a standard PVC chain in order to provide the blind with an elegant and modern look.



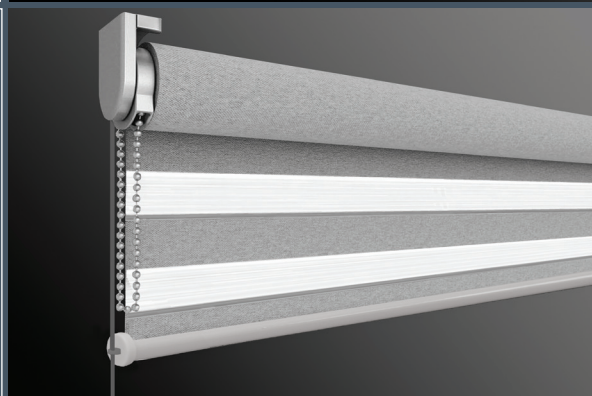
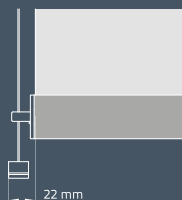
SIM BOTTOM WEIGHT

SIM bottom weight - oval-shaped, integrated with the rotary roll, hidden inside the ballast through which the Day/ Night fabric moves.



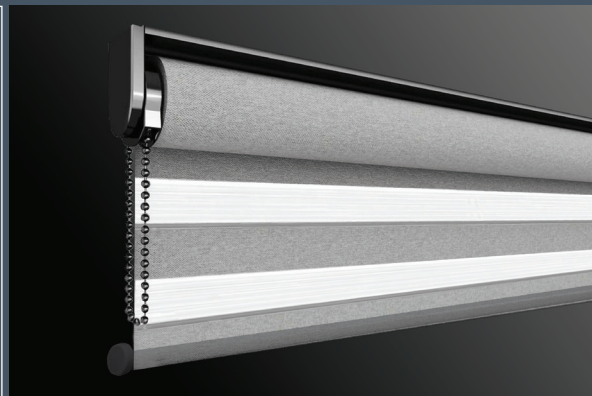
SIDE GUIDE

Side guide - a system of nylon cords installed along the side edges of the blind, responsible for holding the window blind material and ballast at the window frame surface during opening or tilting of the window.

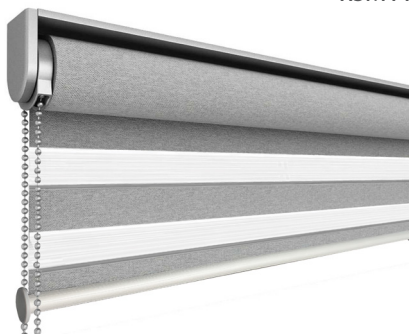


METAL DECORATIVE SET

Decorative set: Additional option for window blinds on a profile (DRSM11 and DRSM61), utilised instead of standard components. The set contains: metal side covers and a metal chain, and for electrically-operated window blinds it shall only be metal side covers. The installation of the set will stress the aesthetic properties of the window blind, distinguishing it from among standard models. The metal components enrich the look of the window blinds and of the interior. This option is available in four colours: stainless steel, aluminium, black nickel and old brass.

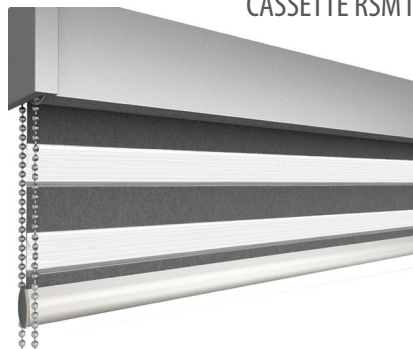


WINDOW BLIND ON SUPPORT PROFILE RSM11



Ballast **STANDARD** Ø13 mm
(plug Ø25 mm)

WINDOW BLIND IN METAL SEMI OPEN CASSETTE RSM14



SIM bottom weight

DAY/NIGHT WINDOW MOUNTED BLINDS - DRN

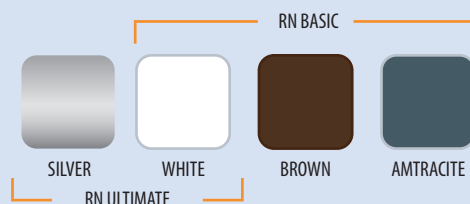
Day/ Night window-mounted window blinds are a very practical and allround solution that will prove itself in almost every room. Due to the small size and placement directly at the window pane, the window blind cassette looks as if it were an integral part of the window. The window-mounted Day/ Night window blinds installed with additional covers reduce the penetration of sunlight to the interior to a minimum, at the same time holding the material of the blind close to the window pane, allowing for easy opening and tilting of the window. The window-mounted blind offer covers two system solutions: **Basic**, in a PVC cassette, and **Ultimate**, in an aluminium cassette.



Technical data: Window-mounted blinds - DRN

Maximum dimensions: width 150 cm *
height 220 cm *
Maximum fabric weight: 1,5 kg
Roller tube diameter: **Ø19 mm**

Colour: Depending on the selected system

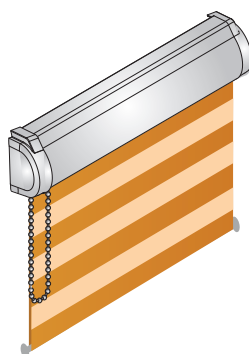


Laminated woodgrain looking cassette: DRN Basic and DRN Ultimate.

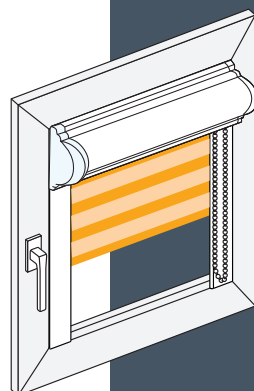


* depending on material type

Types of mechanisms



1. chain



DRN BASIC

Window blind in PVC semi-open cassette with PVC side covers

system colour: white, brown, anthracite
 optional colour: gold oak, walnut, winchester, mahogany, marsh oak
 width: max. 1,50 m *
 height: max. 2,20 m *
 glazing bead depth: min. 14 mm
 roller tube diameter: Ø19 mm
 control: chain with connector
 working length: working length: standard 75% of window blind height
 control side: optionally left or right

ADDITIONAL OPTIONS



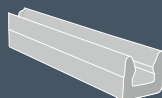
woodgrain looking cassette

p. 21



arched cover profile

p. 21

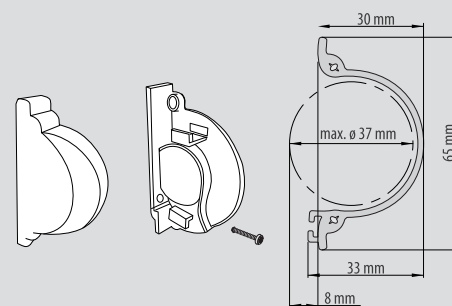


spacer profile

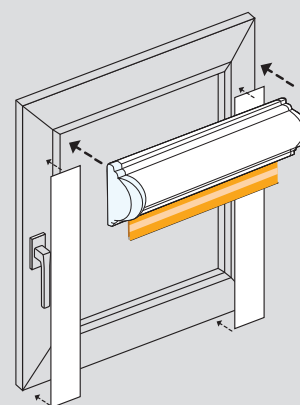
p. 21

* depending on material type.

STANDARD MONTAGE

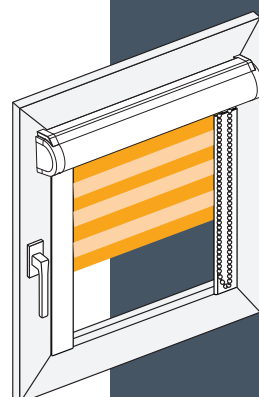


TYPES OF MOUNTING



Mounting on window frame

PVC covers fixed to the window frame using double-sided tape



DRN ULTIMATE

Window blind in PVC semi-open cassette

system colour: white, silver
 optional colour: gold oak, walnut, winchester, mahogany, marsh oak
 width: max. 1,50 m *
 height: max. 2,20 m *
 glazing bead depth: min. 14 mm
 roller tube diameter: Ø19 mm
 control: chain with connector
 working length: working length: standard 75% of window blind height
 control side: optionally left or right

ADDITIONAL OPTIONS



woodgrain looking cassette

p. 21



arched cover profile

p. 21

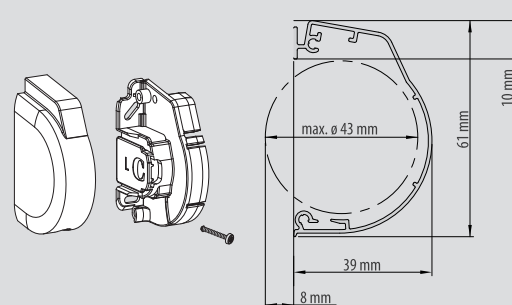


aluminium cover profile

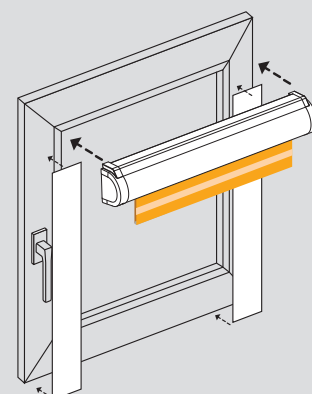
p. 21

* depending on material type.

STANDARD MONTAGE



TYPES OF MOUNTING



Mounting on window frame

PVC covers fixed to the window frame using double-sided tape

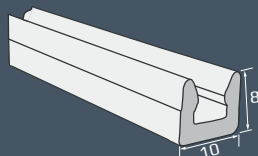
ADDITIONAL OPTIONS FOR DAY/NIGHT WINDOW-MOUNTED ROLLER BLINDS



SPACER
PROFILE

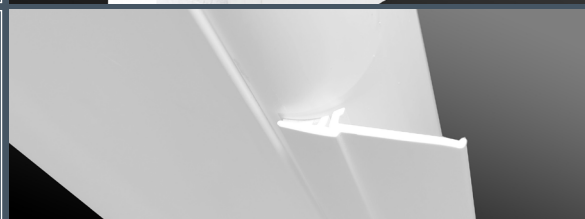
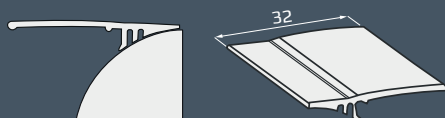
Spacer profile – allows the installation of the window blind on windows with narrow window beads by increasing the distance between the window blind cartridge and the window pane surface. For balcony doors with cross profiles, the use of spacer profiles will allow the installation of a single blind for two parts of the door (upper part and lower part).

for RN BASIC



PVC BOW
COVER

PVC bow cover – a cover with a special shape, adapted for installation on windows with rounded window beads.

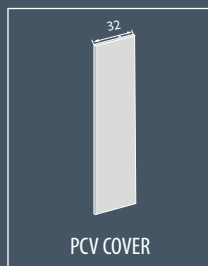


ALUMINIUM COVER

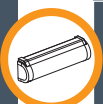
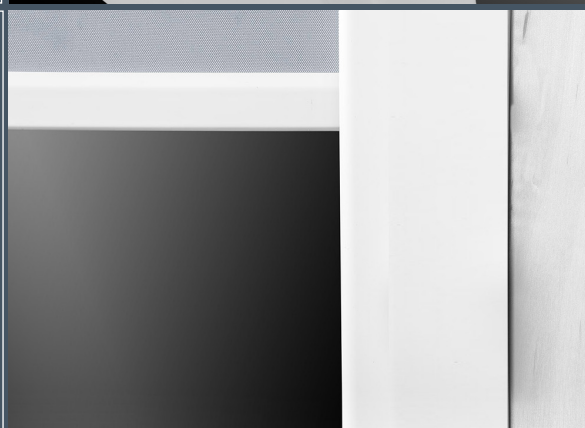
Aluminium cover – used instead of standard-issue PVC covers. Please note that the aluminium cover is wider than the PVC cover, hence, it reduces the free window size ore strongly. Aluminium covers, just like PVC covers, are fixed to the window frame using double-sided tape.



for RN ULTIMATE



PCV COVER



WOODGRAIN
LOOKING CASSETTE

Woodgrain looking cassette – Basic and Ultimate variants can also come with varnished versions, and are available in five of the most popular patterns: marsh oak, gold oak, winchester, walnut and mahogany. The cassette set also includes PVC side covers in the selected pattern.



WINDOW MOUNTED CASSETTE



DRN BASIC
(CASSETTE PCV)



DRN ULTIMATE
(CASSETTE CATRIGE)

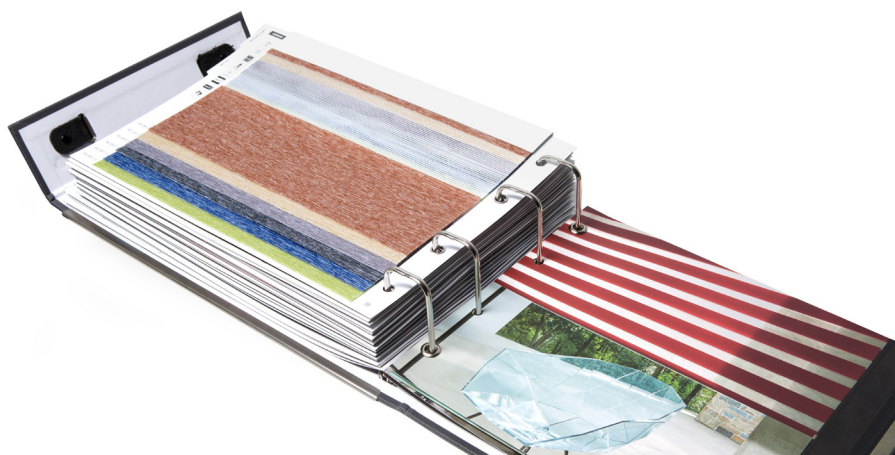


MAXIMUM HEIGHTS FOR DAY/NIGHT FABRICS

Window wing-mounted window blinds have cassette of small sizes which, together with different fabric thicknesses causes certain limitations. The table below shows the maximum heights of DRN Basic and DRN Ultimate window blinds using Day/ Night fabrics from our collection. When picking the fabric for the wing-mounted window blinds, always use the following table to make sure that the fabric will fit in the cassette for the given height.

LP	COLLECTION NAME	DRN BASIC	DRN ULTIMATE	PAGE IN BROCHURE
1	Zakynthos	1300	1900	1-2
2	Organza	1300	1900	3
3	De Lux	2200	2200	4
4	Rhodos	1100	1400	5
5	Hydra	1800	2200	6
6	Elegant (0-1770, 01771, 0-1772, 0-1773)	2200	2200	7
7	Elegant (0-1774, 01775, 0-1776, 0-1777, 0-1778)	1400	2100	7
8	Ikaria	1600	2200	8
9	Passion	1800	2200	9
10	Honey	1600	2200	10
11	Strato	1300	1900	10
12	Flower	900	1100	11
13	Naxos	500	900	12
14	Bahama (S-1470, S-1472, S-1473, S-1474, S-1475, S-1476, S-1477, S-1478, S-1479, S-1480, S-1481, S-1482)	1500	2100	13
15	Bahama (0-1472, 0-1483, 0-1484, 0-1485)	900	1300	13
16	Lusano Wide	1100	1600	14
17	Riga Duo Wide	900	1400	15
18	Ontario Wide	1200	1800	16
19	Bahama Wide	1200	1800	16
20	Jersey Wide	-	-	17
21	Bahama Dim-Out	1000	1500	18
22	Heban (0-1731, 01734, 0-1736, 0-1737)	800	1200	19
23	Heban (0-1730, 01732, 0-1733, 0-1735, 0-1738)	1100	1600	19
24	Patmos	1200	1700	20
25	Roma	600	900	21
26	Milano	1300	1800	22
27	Milano II	1300	1800	23
28	Venezia	900	1300	24

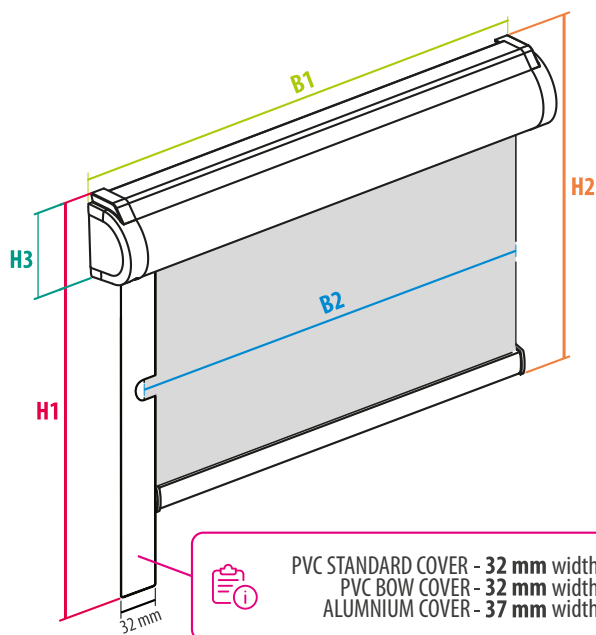
heights in mm





RULES OF MEASUREMENT AND ORDERING FOR WING-MOUNTED WINDOW BLINDS

In order to simplify Your work with our products, and in order to facilitate the production processes, we decided to amend the mode of measurement and ordering of window blinds using the Basic system, and for our innovation – Ultimate-series window wing-mounted blinds in aluminium cassette.



B1 - Window blind total width - the width of the window blind together with side caps.

B2 - Fabric width (PRICE LIST WIDTH) - determine the width of the fabric keeping in mind that:

- determine the width of the fabric keeping in mind that:
- the farther the fabric goes between the side cover, the less sunlight will pass through
- too limited width can be the cause of falling out of the guide rails

H1 - Total height - height from the upper part of the cartridge to the place where the side covers are to end.

H2 - Fabric height (PRICE LIST WIDTH) - from the upper part of the cassette to the point where the ballast will rest on the window bead.

H3 - Cartridge height - DRN Ultimate 61 mm, DRN Basic 65 mm.

KEEP IN MIND:

For technical reasons, the B2 fabric width must be smaller than the B1 total window blind width by at least:

- 38 mm for DRN BASIC
- 45 mm for DRN ULTIMATE

SWATCHES

All our Customers interested in distributing our window wing-mounted window blinds are encouraged to order our swatches, thanks to which one can easily pick new window blinds suitable for the specific installation project.

The complete swatch includes:

- a DRN Basic or DRN Ultimate window blind
- standard PVC side covers in the full colour range (PVC, standard varnish)
- bow side cover for semi-circular window beads, of PVC
- aluminium side covers in the available colours.



NOTE!

As standard for all wing-mounted Day/ Night window blinds, we use a 13 mm diameter ballast. For windows with narrow window beads, please measure the window bead depth carefully. Should this value be close to 13 mm or lower, choose a ballast with a smaller diameter. Our offer also includes an 8 mm diameter ballast that can be used in such a situation. Please consider, however, that the smaller the diameter of the ballast, the lower its weight will be. In case of tall Day/ Night blinds (e. g. for a balcony door), the 8 mm ballast may prove too light to sufficiently load the fabric, and hence, to ensure its free lowering.



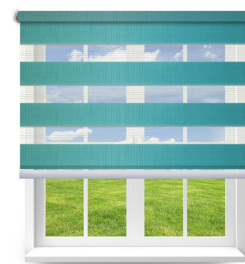
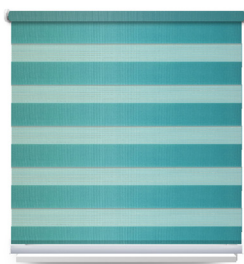
ARRANGEMENT OF THE STRIPES IN DAY/NIGHT WINDOW BLINDS

In Day/ Night window blinds, the horizontal darkening stripes are usually arranged in such a way that when the fabric is completely lowered, they are arranged in the closed position, cutting off light to the room.

Window blinds of equal heights, hanging beside each other.



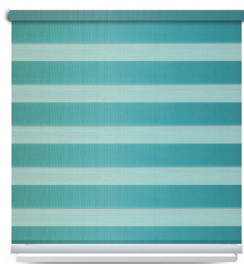
If completely lowered, the window blinds are closed.



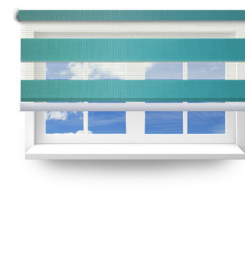
In the open position, the fabric stripes in both blinds lie at the same height.

In case window blinds hanging side by side that differ in height, it may come to the horizontal stripes being at different levels in both window blinds.

Window blinds of differing heights, hanging beside each other.



If completely lowered, the window blinds are closed.

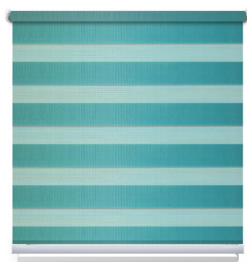


In the open position, the fabric stripes in both blinds are at different heights.



Upon special customer request, it is possible to arrange the fabric bands in both window blinds on the same level. However, this may cause the situation that if one window blind is lowered completely, the darkening stripes will be at different levels.

Window blinds of various heights hanging beside each other, option – arrangement of the bands according to a specific customer request.



When lowered completely, one of the window blinds is closed, the other is open or partly open, however, the fabric stripes in both window blinds are at the same height.

In the open position, fabric stripes in both window blinds are at the same height.



ELECTRIC MOTORS

In the range of electric motors our offer is based on products from the best producers in the industry - the French company **SOMFY** and the Dutch company **Coulisse**. We offer a wide selection of solutions, beginning with a traditional cable-controlled, cooperating with increasingly popular (EIB) „smart home“ systems, through wireless-controlled transmitters in the **RTS** and **io-homecontrol®** technologies allowing remote control by mobile applications. Battery motors are a novelty in our offer. They are characterised by a simple installation not requiring an electrician. As a long standing supplier of internal sun protection with electric motors we can provide knowledge and experience, as well as we help to choose optimal solutions.



MOTORS

somfy®

SONESSE ULTRA 30 WF RTS Li-Ion 12 V



Battery motor.

Ultra quiet motor for medium and large free hanging roller blinds powered by an in-built rechargeable battery. Simple installation does not require an electrician. LED indicator informs on battery charge level. It is controlled by remote controls and switches in the RTS technology.

■ Somfy - 1003311



somfy®

Minimum width of the roller blind: 0,75m

Technical data:

application:	DRM roller blinds
control:	via radio RTS
radio frequency:	433.42 MHz
nominal voltage:	12 VDC
torque:	2.0 Nm
speed:	20 rpm
level of generated noise:	< 45 dB
diameter:	28,8 mm
total length:	635 mm
battery:	12 V 2600 mAh (lithium ion battery)
minimum width of the blinds:	0,75m

Available:

III quarter 2020

ROLL UP 28WT 24 V

Tubular motor 28 mm controlled by wire through polarisation change and powered by a power adapter. Nominal alternating torque is 0,8 Nm. It's operation was tested at higher temperatures and for 10600 cycles. The motor overload detection protects the motor and the cover.

■ Somfy - 1002833



Minimum width of the roller blind: 0,64m

Technical data:

application:	DRM roller blinds
control:	wired
nominal voltage:	24 VDC
torque:	0.8 Nm
speed:	rolling up 28 rpm rolling down 51 rpm
level of generated noise:	48 dB - 57 dB
diameter:	26,5 mm
total length:	285 mm
minimum width of the blinds:	0,38m



SONESSE 30 RTS 24 V

The motor with the biggest torque (2Nm) among Somfy motors powered by 24 V voltage. Very low noise level - below 44 dB. One click of „my“ button sets the blind at previously programmed position. Radio technology with compatibility for Mod/Var and sun protection functions. Easy end position setting by using buttons in the motor head.

■ Somfy - 1001524



Technical data:

application:	DRM roller blinds
control:	via radio RTS
radio frequency:	433.42 MHz
nominal voltage:	24 VDC
torque:	2 Nm
speed:	28 rpm
level of generated noise:	< 44 dB(A)
diameter:	31 mm
total length:	407 mm

SONESSE 40 PA / RTS 230V

Compact and quiet motor for internal coverings (works at the noise level below 45 dB.), powered by 230 V AC voltage. Available in two versions: wire-controlled PA and radio-controlled RTS: with various speeds and torques to choose: 3 Nm, 6 Nm or 9 Nm.

■ Somfy - PA: 1001548 - 3 Nm
1001549 - 6 Nm
1001552 - 9 Nm

RTS: 1001574 - 3 Nm
1001578 - 6 Nm
1001582 - 9 Nm



Technical data:

application:	rolety DRM
control:	wider PA and via radio RTS
radio frequency:	433.42 MHz
nominal voltage:	230 V / 50 Hz
speed:	torque:
	3 Nm - 30 rpm
	6 Nm - 20 rpm
	9 Nm - 12 rpm
level of generated noise:	< 45 dB
diameter:	40 mm
total length:	478 mm - 548 mm
minimum width of the blinds:	0,57m

SONESSE 40 io-homecontrol® 230V

The newest version of quiet motor Sonesse 40 in the IO technology. Powered by 230 V voltage, radio-controlled io-homecontrol. The level of generated noise below 44 dB. The drive is available in several versions, with various torques: 1.3 Nm, 3 Nm, 6 Nm and 9 Nm

■ Somfy - 1003222 - 1,3 Nm
1003224 - 3 Nm
1003226 - 6 Nm



Technical data:

application:	DRM roller blinds
control:	via radio io-homecontrol
radio frequency:	868 - 870 MHz
nominal voltage:	230V / 50 Hz
speed:	torque:
	1,3 Nm - 50 rpm
	3 Nm - 30 rpm
	6 Nm - 20 rpm
level of generated noise:	44 dB
diameter:	38,2 mm
total length:	517 mm - 548 mm
minimum width of the blinds:	0,62m



POWER SUPPLY UNIT (PLUG-IN) 230/24V DC, 1A

- Stabilised power supply unit.
- Can power a single motor.
- It does not require any special installation.

Technical data:	voltage (input):	207 V do 243 V
	frequency:	50 - 60 Hz
	voltage (output):	24 VDC + 3% / - 5%
	current max.:	1000 mA

■ Somfy - 1870279



szer.: 50 mm
dł.: 76 mm
wys.: 35 mm

POWER SUPPLY UNIT POWER 1.0 DC 24 VDC F

- Small power supply unit for flush in-wall mounting.
- Perfect solution for powering a single motor.

Technical data:	voltage (input):	od 100 do 240 V
	frequency:	50 - 60 Hz
	voltage (output):	24 V DC

■ Somfy - 1870274



szer.: 51 mm
dł.: 49 mm
wys.: 23 mm

POWER 1,5 DC 24 V GROUP POWER SUPPLY UNIT

- Surface mounting.
- Can power up to 3 motors.
- Mains plug sold separately

Technical data:	voltage (input):	90 do 264 V
	frequency:	43 - 67 Hz
	voltage (output):	24 VDC (90 do 240 VDC)
	current max.:	1500 mA

■ Somfy - 1870149



POWER 2,5 DC RTS GROUP POWER SUPPLY UNIT

- Power supply unit with integrated RTS receiver ~ 230V/ 24V DC.
- Can power and control up to 6 motors.
- Compatible with all RTS Somfy transmitters.

Technical data:	voltage (input):	198 V do 255 V
	frequency:	50 Hz
	voltage (output):	24 VDC
	current max.:	2500 mA

■ Somfy - 1870157



POWER 2,7 DC 24 V

- Surface mounting
- Can power up to 6 motors.

Technical data:	voltage (input):	198 V do 255 V
	frequency:	50 Hz
	voltage (output):	24 VDC +/- 5%
	current max.:	2700 mA

■ Somfy - 1870156



ANIMEO DC 230 V AC / 24 V DC GROUP POWER SUPPLY UNIT

- Surface mounting.
- Can power up to 11 motors.
- Stabilised power supply unit.

Technical data:	voltage (input):	220 V do 240 V
	frequency:	50 - 60 Hz
	voltage (output):	24 VDC +/- 5%
	current max.:	4500 mA

■ Somfy - 1860093





SMOOVE UNO / DUO SWITCH (FIXED POSITION FP)

- Somfy Wire switches for control of wire motors
- Smoove UNO (fixed position) - for a single drive.
- Smoove DUO (fixed position) - independent control of two drives.
- Pressing the button causes the drive to move up / down to the end position.
- Press any button to stop the drive.

■ Somfy Smoove Uno - 1800508

Somfy Smoove Duo - 1800506



Smoove Uno WT



Smoove Duo WT

SMOOVE UNO IB+ SWITCH

- Wire switch for manual control of a single 230 V motor.
- Control by UP, DOWN and STOP/MY buttons.
- Programming the comfort position by „my“ function.
- Possibility to connect to two central control systems due to operation with IB and animeo IB+ buses.
- Easy and fast assembly in a 60 mm installation box.

■ Somfy - 1811203 - pure

1811204 - silver

1811205 - black

Pure Shine



Silver Shine



Black Shine



NOTE: Each colour - different price.
Set does not contain a frame.

SMOOVE ORIGIN IB+

- Manual central or group control of many drives while using the IB+ bus.
- It is used as a master in combination with individual controllers e.g. Centralis Uno IB, Smoove Uno IB.
- Compatible in terms of design with the Somfy Smoove Uno IB+ series.

■ Somfy - 1811272



Set does not contain a frame.

CHRONIS SMOOVE UNO TIME PROGRAMMER

- Can control the wire controlled 230 V drives.
- Large back-lit touch screen enables easy control and programming while using the text display.
- Modern design, and 2 colour options allow free combination of the Chronis Smoove Uno programmer with other products from the Smoove series.

■ Somfy - 1805268



SEPARATING RELAY TR2-U-E-230

- A relay for group control of roller blinds drives with mechanic or electronic switches used for a parallel connection of drives.
- A single relay can connect up to 2 drives.
- More drives require using several separating relays connected to each other. For several separating relay the supply with the same phase is necessary.
- By means of the control inputs only the current of the relay coil is controlled, not the drive. The controller current load is minimum.

■ Somfy - 1822200



Our company is a member of the prestige „**Powered by Somfy**“ program. Participation in this program confirms the highest quality of offered products and confirms the top quality of customer service.



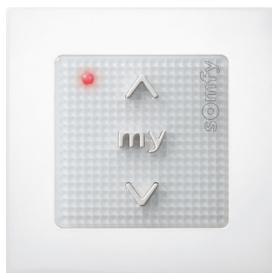
WIRELESS CONTROL IN THE TECHNOLOGY RTS FOR THE ROLL UP WireFree R28 RTS, SONESSE 30 RTS AND SONESSE 40 RTS MOTORS

somfy®

SMOOVE ORIGIN RTS WALL SURFACE-MOUNT SWITCH

- Depending on the selected model, it is possible to control one or more devices or groups of devices.
- Compatible with all RTS powered systems (internal & external).
- Battery powered - no wiring required.
- Supplied with a mounting plate easy and quick to install on a wall, flush-mounted installation nest is not required.

- Somfy - 1811045 - Single channel switch
- Somfy - 1800223 - Two channel switch
- Somfy - 1800295 - Four channel switch



Set contains a frame.

PILOT SITUO 1 RTS - COLOUR PURE

- A single channel remote control.
- It can control a single motor or one group of motors at the same time.
- Compatible with all external and integrated RTS receivers.
- The „my“ function will memorise your favorite position and recall it by pressing this button.
- Simple to programme and to modify. Wall bracket in set.

- Somfy - 1870403

Colours **Iron**, **Natural** and **Arctic** are available at request. NOTE: each colour - different price.



„Also available in the VARIATION version for precise control of window blinds.“

PILOT SITUO 5 RTS - KOLOR PURE (SZARY + BIAŁY)

- 5-channel remote control.
- Can control a single motor or up to 5 groups of motors at the same time.
- Compatible with all external and integrated RTS receivers.
- LED diode indicates sending commands; displays battery charge level and selected channel.
- Wall bracket in set.

- Somfy - 1870419

Colours **Iron**, **Natural** and **Arctic** are available at request. NOTE: each colour - different price.



„Also available in the VARIATION version for precise control of window blinds.“

PILOT TELIS 16 PURE RTS - KOLOR PURE (BIAŁY)

- 16-channel remote control.
- Can control a single motor or up to 16 groups of motors at the same time.
- Compatible with all external and integrated RTS receivers.
- The on-screen makes it easy to program and navigate through settings. You can assign each channel a name, icon and/or number.
- Powered by batteries, displays battery charge level.

- Somfy - 1811079

Colour **Silver** is available at request. NOTE: each colour - different price.



PILOT TELIS CHRONIS 6 RTS

- 6-channel remote control with LED display.
- Can control a single motor or up to 6 groups of motors at the same time.
- Both: manual mode and time scheduled automatic mode available.
- Different scheduled operation available for each day of a week, up to 6 different timed events per day.
- The twilight function (closure at sunset), holidays mode functions and automatic summer / winter time change.

- Somfy - 1805215





WIRE CONTROL 24 V FOR THE ROLL UP 28 WT 24V MOTOR

somfy®

INIS DC 24 V POWER SUPPLY SWITCH

- A single control switch integrated power supply unit for a 24 VDC wire-controlled motor.
- Easy installation in a standard flush-mounted box or in a surface mounted housing.

Technical data:	voltage (input):	230 V
	frequency:	50 Hz
	voltage (output):	24 VDC
	current max.	700 mA

■ Somfy - 1870071



CONTROL IN THE TECHNOLOGY SIMU HZ

FOR THE ROLL UP WireFree R28 RTS, SONESSE 30 RTS AND SONESSE 40 RTS MOTORS



SIMU Hz 5-CHANNEL RADIO TRANSMITTER

- Wireless transmitter enables individual control of 5 roller blinds or 5 groups of roller blinds with the possibility to create areas and central control of a home.
- The pre-programmed ALL channel, ensures simultaneous operation of all 5 channels.
- LCD display enables to name each channel with 2 marks.
- Low battery warning signal.

Available in two versions:

■ Simu - 2008335



Wall surface version – mounted in a chosen place.

■ Simu - 2008798



Portable version - always close at hand.



RECEIVERS RTS 24 V

somfy®

MODULIS DC 24 V EXTERNAL RADIO-BROADCAST RECEIVER

- Compatible with transmitters, Mod/Var function and Sunis sensor.
- Possibility for individual and group control (max. 2 drives).

Technical data:

radio frequency:	433,42 MHz
voltage (output):	24 VDC
current max.	1300 mA

■ Somfy - 1870138





SMOOVE ORIGIN io

- Depending on the selected model, it is possible to control one or more devices or groups of devices.
- Possible individual, group and central control.
- Wireless - powered by batteries, and thus minimal cost of installation.
- Mounting plate enables simply and fast installation on a wall, a UP plug-in socket is not required.

- Somfy - 1811003 - Single channel switch
- Somfy - 1800204 - Two channel switch
- Somfy - 1800205 - Four channel switch



Set contains a frame.

SITUO 1 io II REMOTE CONTROL - COLOUR PURE

- 1-channel radio remote control to operate 1 or several drives in the „io“ technology.
- Possible individual, group and central control.
- UP, DOWN and „my“ buttons.
- „my“ button - for stopping or recalling individually set favorite position.

- Somfy - 1870312



PILOT SITUO 5 io II

- 5-channel radio remote control for controlling one or several drives in the io technology.
- UP, DOWN and „my“ buttons + button for choosing the channel-No.
- Button „my“ for stopping and recalling the individually set comfort position.
- LED diode indicates the battery charge level and choosen channel.

- Somfy - 1870328



SMART HOME

TAHOMA® SWITCH

Somfy - 1811429

TaHoma Switch is one of the most comprehensive intelligent home control systems. It allows you to control over 200 devices in radio technology IO, RTS or Zigbee from a smartphone or tablet.

A simple and intuitive mobile application allows you to control, lighting, heating, gates, roller blinds or an alarm. TaHoma Switch allows you to create up to 40 individual scenarios and schedules tailored to your lifestyle. It is a way to reduce energy consumption, improve safety and comfort.

The control panel has two manual buttons. Each of them allows you to play a pre-programmed scenario without having to turn on the mobile application. Just press one of them and TaHoma will start the particular sequences, e.g. „leaving the house“, turning off the lighting, covering the blinds, lowering the temperature and activating the alarm or the „WAKE UP“ scenario, which will make the house wake up with you, e.g. opening the blinds, turning on the light, coffee machine and your favorite music.





VESTAMATIC VL-MM-230-35 230 V

The motor of German producer of drives for sun shields - produced by VESTAMATIC®. It is dedicated for medium and large roller blinds. Powered with 230 V AC voltage, wire controlled.

Drives produced by VESTAMATIC® are compatible with remote controls and transmitters of other producers.

Technical data:

application:	DRM roller blind
control:	wire
nominal voltage:	230 V / 50 Hz
torque:	6 Nm
speed:	28 rpm
diameter:	35 mm
total length:	459 mm



DRIVES FOR SMART ROLLER BLINDS

coulisse
DECORATION SOLUTIONS

COULISSE CM-02 8 V



Battery motor.

Wireless motor powered by an integrated lithium ion battery operated manually by a chain - pulling the chain starts the motor up. Simple installation without any special tools. The battery is recharged by universal micro USB cable - under normal use (1 cycle per day) it is enough to charge the battery 1 or 2 times a year.



coulisse

Technical data:

application:	rolety RSM
control:	pulling chain
nominal voltage:	8 V DC
speed:	34 rpm
torque:	0,65 Nm
diameter:	25 mm
battery:	2000 mAh 16 Wh (8V) lithium ion battery

COULISSE CM-03 12 V



Battery motor.

Wireless drive powered by integrated lithium ion battery, with a built-in receiver, remotely controlled - with remote, wall switch, or manually with a chain - pulling the chain causes the motor to start up. It is also possible to control the drive by mobile application. The battery is recharged by an universal micro USB cable.



coulisse

Technical data:

application:	rolety RSM
control:	pulling chain or RTS
nominal voltage:	12 V DC
speed:	28 rpm
torque:	1,1 Nm
diameter:	25 mm
battery:	1400 mAh 17 Wh (12V) lithium ion battery

**CM - 11**

- 1-channel remote control.
- Can control a single drive or 1 group of drives.
- Wall holder included.

**CM - 12**

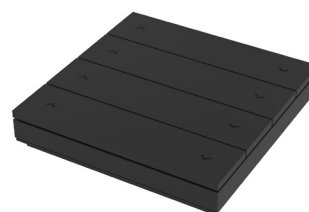
- 5-channel remote control.
- Can control up to several drives.
- Wall holder included.

**CM - 13**

- 15-channel remote control.
- Can control up to several drives.
- Wall holder included.

**CM - 16**

- 4-channel wall switch.
- Can control up to several drives.
- Wireless, powered by batteries.

**CM - 17**

- 4-channel desktop switch.
- Wireless, battery powered.
- Can control up to several drives.

**CM - 18**

- Wireless handling chain - 1-channel.
- Can control up to several drives.
- Length of chain: 50 cm, 60 cm and 100 cm.

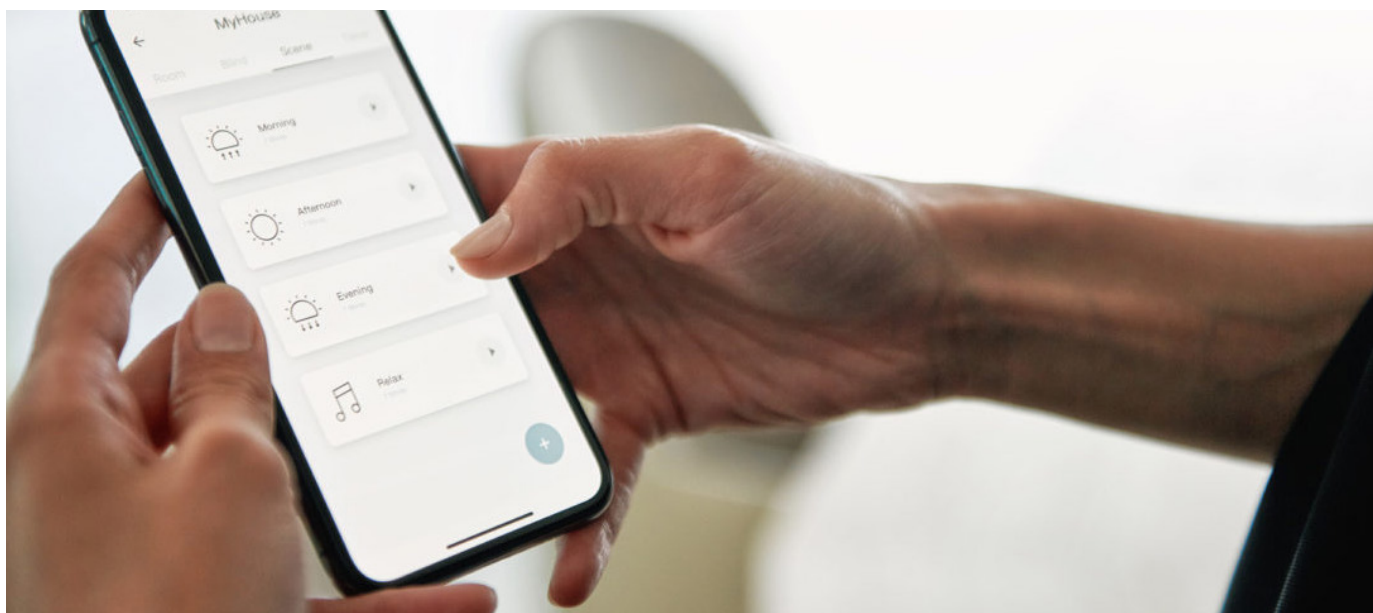
**CM - 19**

- Integration with systems of home automation.
- Unlimited number of operated devices.
- Programming up to 15 scenarios.

**WI-FI BRIDGE CM - 20**

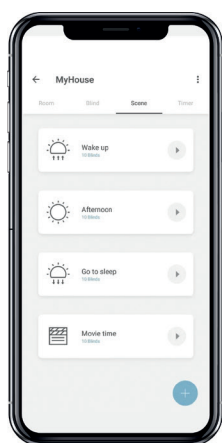
- Enables to control roller blinds with mobile application
- Connection up to 30 roller blinds at the same time
- Unlimited number of scenarios
- Two-directional communication



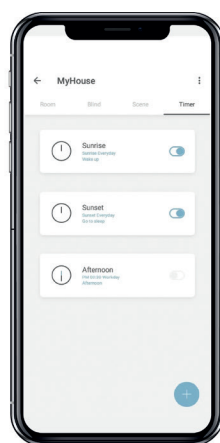


COULISSE MOBILE APPLICATION - MOTION BLINDS HIGHER LEVEL OF OPERATION.

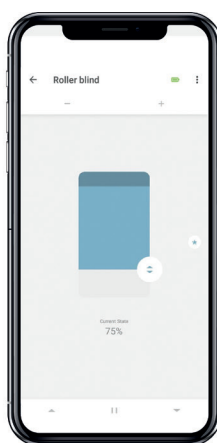
Simultaneous control of many roller blinds by easy to use Motion Blinds application. Make your home automated thanks to programmed operation modes and the timer. Control the interior climate by reducing the loss of thermal energy. Find proper balance between amount of light and privacy protection. Thanks to the Motion Blinds application you set optimal position of roller blinds and check the current battery charge level.



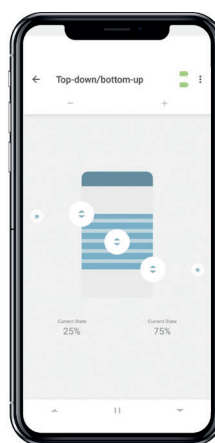
Set scenes
with pre-set
positions



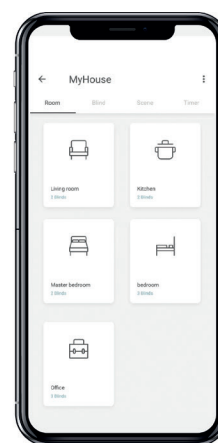
Add timers to
automate
scenes



Create rooms
with multiple
blinds



Send the blind to
any desired
position



Compatible with
different types
of blinds

Download the Motion Blinds application on a mobile device from the App Store or Google Play shop!



Watch a video:

How the Motion Blinds application works.

<https://youtu.be/jyFTdo9Mwh0>



ROLLER BLINDS DAY/NIGHT SAMPLE ARRANGEMENTS

All Day/ Night window blind systems within our product are products that have been quality- and reliability-tested and proven in Europe and in the world. Our carefully arranged selection of over 180 fabrics from top suppliers as well as the broad range of mounting solutions allow the adaptation of our products to any kind of room.





BROAD RANGE OF DAY/NIGHT FABRICS MEANS OVER 180 OPTIONS TO HIGHLIGHT THE STYLE OF YOUR INTERIOR

Pick the best choice based on one of the largest selection of Day/ Night type fabrics on the market. Our offer spans over 180 fabrics in modern designs, exhibiting diverse colour schemes and technical properties, including low-flammability fabrics per standard DIN 4102 class B1 (low-flammability fabrics). Our offer includes block colour fabrics and fabrics with fashionable patterns, with stripes widths between 40 mm and 210 mm. The range also includes several dozen fabrics dedicated for Day/ Night Roman (wrinkled) window blinds.





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www.shadow-system.pl



Day/Night Roller Blinds
Product brochure