



Drive and control programme

Objecta



Contents

- 6 List of 24 V / 230 V motors
- 8 Programming tools
- 9 VRS radio
- 15 Switch / motor controls
- 18 Touch Centre
- 19 SMI
- 20 SMI-KNX
- 21 KNX
- 22 Sensors
- 23 24 V power supply units
- 24 Building controllers

Motors for indoor sunshades

SUNSHADES - COMPLETELY VESTAMATIC CONTROLLED

VENETIAN BLIND 24 V
VENETIAN BLIND 230 V*

PROJECTOR SCREEN

ROLLER BLIND 24 V
ROLLER BLIND 230 V

PLEATED BLIND 24 V**



* via external receivers
** available from 2016

Motors for indoor sunshades

VESTAMATIC LOVO LINE MOTOR SERIES

- Elegant slow running at start and stop
- Synchronous operation of several units through supervised motor speed
- Silent
- Programming with programming tool art. no. 606 632 004

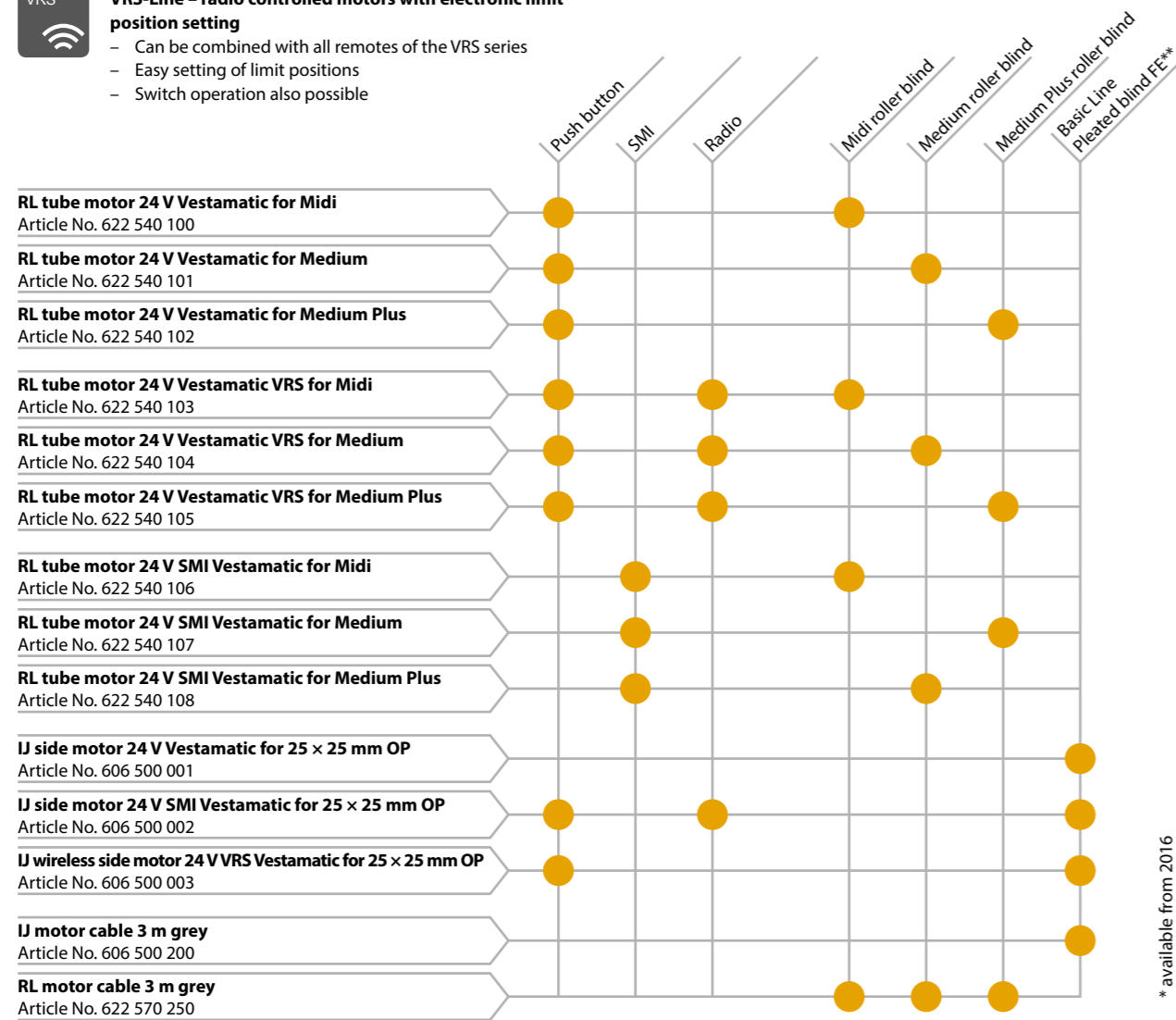
E-Line – motors with electronic end position setting

VRS-Line – radio controlled motors with electronic limit position setting

- Can be combined with all remotes of the VRS series
- Easy setting of limit positions
- Switch operation also possible

SMI-Line – motors with the Standard Motor Interface (SMI)

- Sends status messages to SMI control units
- Programming via SMI BUS possible
- Switch operation also possible



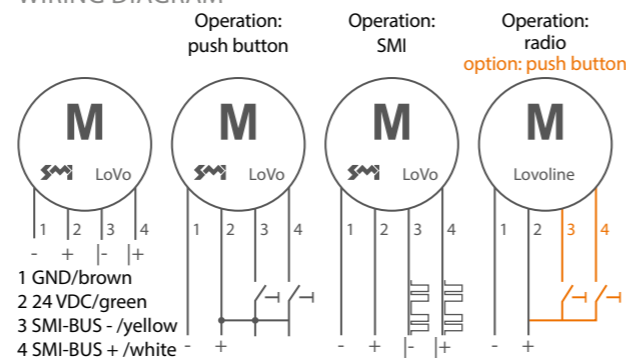
* available from 2016

CONNECTIONS WACO TERMINAL



! We also recommend to use always a wired connection between the motor and push button with a 4-core cable for the switch-operated mode.

WIRING DIAGRAM



! The modes of operation cannot be combined with each other.

MOTORS 230 V

M-Line - set with setscrews at the motor head, long-life and reliable

Q-Line - low-noise drive

- Available with mechanical and electronic end position switch

E-Line – motors with electronic end position setting

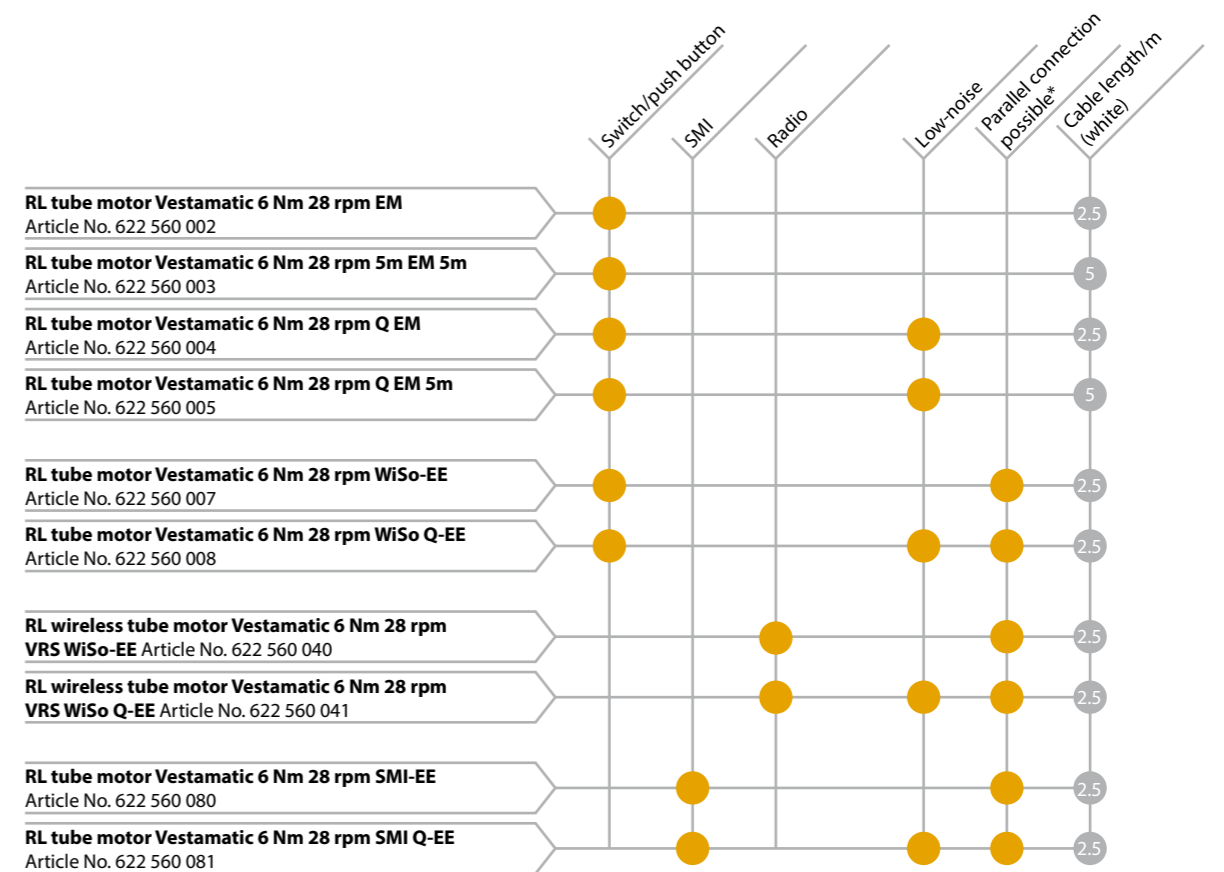
- Parallel connection without additional devices possible

VRS-Line – radio controlled motors with electronic limit position setting

- Can be combined with all remotes of the VRS series
- Easy setting of end positions

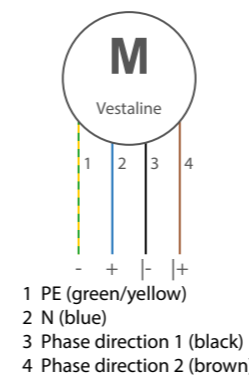
SMI-Line – motors with the Standard Motor Interface (SMI)

- Sends status messages to SMI control units
- Programming via SMI BUS possible

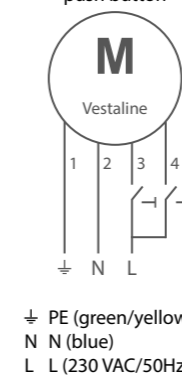


* without additional devices

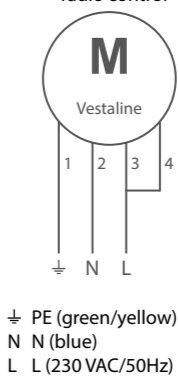
WIRING DIAGRAM



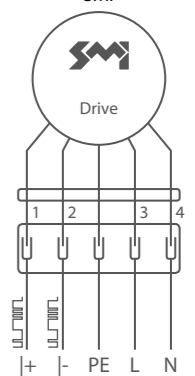
Mode of operation: push button



Mode of operation: radio control



Mode of operation: SMI



! The modes of operation cannot be combined with each other.

Programming tools

24 V drives



Programming tool Vestamatic 24 V drives

Programming tool for comfortable setting of end positions and resetting all 24 V Vestamatic drives

Article number	606 632 004
----------------	-------------

230 V drives



Programming tool Vestamatic 230 V drives

Programming tool for comfortable setting of end positions and resetting all 230 V Vestamatic drives with electronic end position setting.

Article number	606 632 109
----------------	-------------

Handheld radio transmitters



Designation	Article number
5-channel handheld radio transmitter VRS WiSo white	606 650 150
5-channel handheld radio transmitter VRS WiSo black	606 650 151
10-channel handheld radio transmitter VRS white	606 650 152
10-channel handheld radio transmitter VRS black	606 650 153

TECHNICAL DATA

Radio frequency	868 MHz
Operating temp range	0 °C to +40 °C
Type of protection	IP30
Dimensions (L x W x H)	VRS handheld transmitter: 55 x 55 x 10 mm
Battery	Coin battery CR2032
Colour	Signal white (similar to RAL 9003) black (similar to RAL 7016)
Conformity	CE

Wall-mounted radio transmitter



Designation	Article number
1-channel wall-mounted radio transmitter, VRS, white	606 650 154
2-channel wall-mounted radio transmitter, VRS, white	606 650 155

TECHNICAL DATA

Radio frequency	868 MHz
Operating temp range	0 °C to +40 °C
Type of protection	IP30
Dimensions (L x W x H)	71 x 71 x 15 mm
Battery	Coin battery CR2032
Colour	Signal white (similar to RAL 9003)
Conformity	CE

Timers



Timer Touch Control VRS 1x230 V 3A/ motor controls R/P series

Art. No. 606 660 100

- Easy touch screen operation screen with illuminated display
- Week and day program
- Astro function
- Random function
- Sun function, connection option for lux sensor
- Integrated radio receiver for manual and sun triggered control via radio control
- Central input

Designation	Art. No.	Output voltage	Connection	Integr. radio receiver	Connection of central push button
Touch Control VRS	606 660 100	230 V	Cabled, 4-core	yes	yes
Touch Control	606 660 101	230 V	Cabled	no	yes

TECHNICAL DATA

	Timer Touch Control VRS Timer Touch Control
Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Radio frequency (version VRS)	868 MHz
Power consumption	< 0.5 W
Output (UP/DOWN)	230 VAC, 50 Hz
Switching capacity	250 VAC, 3A, cos f > 0.8 ind.
Switching time DOWN	3–120 seconds
Tilting time	0-30 seconds
Software class	A
Operating temp range	0 °C to +40 °C
Type of protection	IP 30
Degree of contamination	2
Battery	Coin battery CR 2032
Dimensions (L x W x H)	50 x 50 x 55 mm (w/o frame)
Colour	Similar to RAL 9010
Conformity	CE

Timer Touch Control 1x230 V

Art. No. 606 660 101

Lux sensor



Radio light sensor VRS lux sensor S

For inside mounting on the window pane
Transmits commands to the VRS radio drives / receivers when the set brightness value is exceeded or fallen below. If an intermediate position has been set, this position will be approached.

Article number	606 661 300
-----------------------	-------------

TECHNICAL DATA

Radio frequency	868 MHz
Modulation	FSK
Power supply	Coin battery CR 2032
Type of protection	IP 50
Operating temp range	0 °C to +70 °C
Range within building	ca. 30 m
Dimensions (L x W x H)	Ø 41 x 13 mm
Conformity	CE

External radio receivers



Radio receiver VRS Thin Receiver 1x230 V

In housing, open cable ends, type of switching 230 V
Art. No. 606 650 130



Radio receiver VRS Thin Receiver Hirschmann 1x230 V

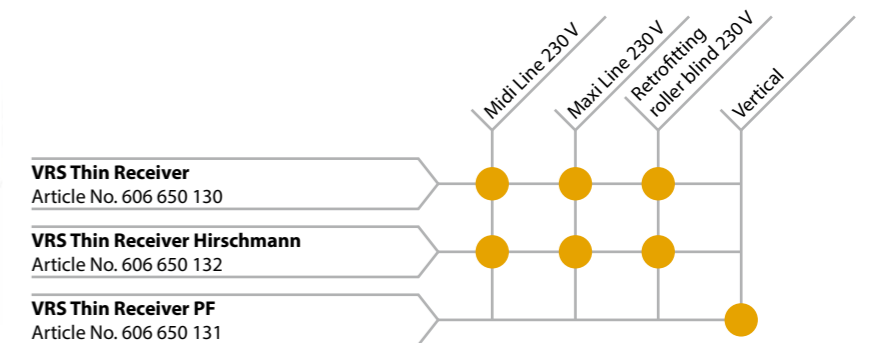
In housing, open cable ends, type of switching 230 V
Art. No. 606 650 132



Radio receiver VRS Thin Receiver 1x230 V potential-free

In housing, open cable ends, potential-free
Art. No. 606 650 131

- Short description
- Radio receivers for controlling venetian and roller blind motors
- and potential-free for vertical blinds
- Visual and mechanical feedback during programming
- Deletion via short motor control commands
- Inching mode also available for venetian blinds
- Control with all transmitters of the VRS series
- Easy installation through plug connection for Hirschmann version



TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Power consumption	0.2 W
Radio frequency	868 MHz
Switching capacity	
Version PF: Dry contact	230 VAC/736 VA/3.2 A (cos f > 0.8 ind.); 24 VDC/2 A
Version Hirschmann	NO: 230 VAC/736 VA/3.2 A (cos f > 0.8 ind.)
Switching time	180 seconds
Type of protection	IP54
Protection class	II
Operating temp range	-10 °C to +40 °C
Dimensions (L x W x H)	125 x 30 x 23 mm
Conformity	CE

Light receiver



Radio receiver VRS FMT Light Receiver 1 light 230 V for flush-mounted box

Article number	606 650 133
----------------	-------------

- Radio receiver for control of one light source
- Operation via all handheld and wall-mounted transmitters of the VRS series
- Operation: On/Off, timer (7 minutes)
- Installation: Flush-mounted box

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Power consumption	35 mA
Radio frequency	868 MHz
Type of protection	IP 40 (FMT)
Protection class	II
Operating temp range	-20 °C to +60 °C
Dimensions (L x W x H)	46 x 46 x 25 mm
Conformity	CE

LOAD TABLE

Type of load	Max. load	Example
Ohmic load	10 A / 2300 VA	Incandescent lamp 230 VAC, halogen lamps etc.
Inductive load	2.6 A / 600 VA 10 A / 2300 VA 2.6 A / 600 VA	Halogen lamps with wound transformers Fluorescent lamps (series) Fluorescent lamps (parallel)
Capacity ECG	4 A / 920 VA	Electronic control gears, electronic transformers etc.

Socket outlet receiver



VRS 230 V receiver for socket outlet*

Article number	606 650 159
----------------	-------------

- Radio receiver for control of one load
- Operation via all handheld and wall-mounted transmitters of the VRS series
- Operation: On/Off
- Installation: Socket outlet, adapter plug

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Power consumption	35 mA
Switching capacity	2000 W
Radio frequency	868 MHz
Type of protection	IP 40 (FMT)
Protection class	II
Operating temp range	-20 °C to +60 °C
Dimensions (L x W x H)	46 x 46 x 25 mm
Conformity	CE

* available from 2016

Radio repeater



Radio repeater VRS FMT Repeater for flush-mounted box

Article number	606 650 157
----------------	-------------

- Flush-mounted device for repeating the VRS signal in installation situations with poor radio range
- Operation via all handheld and wall-mounted transmitters of the VRS series
- Installation: Flush-mounted box

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Power consumption	35 mA
Radio frequency	868 MHz
Type of protection	IP 40 (FMT)
Protection class	II
Operating temp range	-20 °C to +60 °C
Dimensions (L x W x H)	46 x 46 x 25 mm
Conformity	CE

Socket outlet repeater



VRS FMT repeater for socket outlet*

Article number	606 650 158
----------------	-------------

- VRS radio repeater for installation situations with poor radio range
- Operation via all handheld and wall-mounted transmitters of the VRS series
- Installation: Socket outlet, adapter plug

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Power consumption	35 mA
Radio frequency	868 MHz
Type of protection	IP 40 (FMT)
Protection class	II
Operating temp range	-20 °C to +60 °C
Dimensions (L x W x H)	52 x 120 x 40 mm
Conformity	CE

* available from 2016

APP control



APP control 2x230 V + 1x light

Wi-Fi shade control for 2 drives 230 VAC and 1 light 230 VAC. The drives can be controlled automatically depending on wind and sun. The manual control of the drives and light can be effected with the supplied remote control and via Apple devices. Control via Android, Windowsphone or PC is possible with the webserver set (not included).

Components: Wi-Fi Centre VRS S incl. control box, Wi-So Crystal Station and 5-channel handheld radio transmitter VRS Wi-So white

Article number	606632108
-----------------------	-----------

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Fuse	230 VAC, 7 AT
Power consumption	max. 10m A
Control box dimensions (W x H x D)	169 x 134 x 84 mm
Type of protection	IP 54
Protection class	I
Radio frequency	868 MHz
WLAN frequency	2.4 GHz
Battery remote	CR 2032 (1 piece)
Wind sensor measuring range	3–30 m/s
Sun sensor measuring range	1–100 kLux
Relay / motor 1 + 2	230 VAC, 2 A, cos f > 0.8 ind.
Relay / light	230 VAC, 2 A, cos f = 1
Operating temp range	0 °C to +40 °C
Conformity	CE

Push button/switch



Designation	Article number
Push button Busch-Jaeger white	602 630 151
Switch Busch-Jaeger white	602 630 152

Designation	Article number
Push button Gira Standard 55 white	602 630 161
Switch Gira Standard 55 white	602 630 162

Timer Touch Control 1x230 V

For technical data refer to page 10

Article number	606 660 101
-----------------------	-------------

1 drive 230 V



Motor control MC P1 FMT 1x230 V

Article number	606 632 103
-----------------------	-------------

- Motor control for central control and single control of one 230 V drive
- Mode of operation: Inching / push button with time logic
- Installation: Flush-mounted box (Ø 55mm)

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	< 0.5 W
Output (UP/DOWN)	230 VAC, 50 Hz
Switching capacity	250 VAC, 3 A, cos f > 0.8 ind.
Switching time	180 seconds
Operating temp range	0 °C to +40 °C
Type of protection	IP 20
Dimensions (L x W x H)	48.5 x 52.5 x 28 mm
Conformity	CE

2 drives 230 V



Motor control MC P2 2x230 V with single / group control

Article number	606 632 102
----------------	-------------

- Microprocessor-powered motor control for two drives
- Control possible via central command and 2 local buttons
- 8 different operating modes can be set, incl. inching and intelligent decentralised operation
- Motor run time / tilting time can be set individually

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	1.8 W
Fuse	6 AT
Output	230 VAC, 50 Hz
Switching capacity	250 VAC, 6 A, cos f > 0.8 ind.
Switching time DOWN	3 – 180 seconds
Switching time UP	180 seconds
Permissible motor current	
- 1 motor connected	6 A max.
- 2 motors connected	max. 3 A each
Operating temp range	0 °C to +40 °C
Type of protection	IP 40
Dimensions (L x W x H)	186 x 55 x 74 mm
Conformity	CE

4 drives 230 V



Motor control MC P4 4x230 V

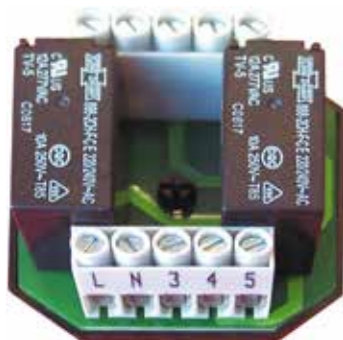
Article number	606 632 099
----------------	-------------

- Microprocessor-powered motor control for four drives
- Control possible via central command, one group button and 4 local buttons
- 10 different operating modes can be set, incl. inching and intelligent decentralised operation
- Motor run time / tilting time can be set individually

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	2.6 W
Fuse	T 6,3 A
Output	230 VAC, 50 Hz
Switching capacity	250 VAC, 4 A, cos f > 0.8 ind.
Switching time DOWN	3 – 180 s
Switching time UP	180 seconds
Permissible motor current (total)	max. 6 A
Operating temp range	0 °C to +40 °C
Type of protection	IP54
Dimensions (L x W x H)	170 x 134 x 85 mm (w/o connections)
Conformity	CE

2 drives 230 V - cut-off relay



Cut-off relay MC TR 25 FMT 2x230 V

Article number	606 610 120
----------------	-------------

- Cut-off relay for parallel connection of 2 drives 230 V
- Control possible via central command and 2 local buttons
- No time logic
- Installation: Flush-mounted box (Ø55mm, deep version)

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	< 1 W
Control voltage	230 VAC
Output	230 VAC, 50 Hz
Switching capacity (per output)	250 VAC, 4 A, cos f > 0.8 ind.
Operating temp range	0 °C to +40 °C
Type of protection	IP 20
Degree of contamination	2
Dimensions (L x W x H)	52.4 x 46.6 x 21.1 mm
Conformity	CE

4 drives 230 V with integrated radio



Motor control MC P4 4x230 V VRS

Article number	606 632 101
----------------	-------------

- Microprocessor-powered motor control for four drives
- Control possible via central command, one group button and 4 local buttons
- Integrated 4-channel receiver
- 10 different operating modes can be set, incl. inching and intelligent decentralised operation
- Motor run time / tilting time can be set individually

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Radio frequency	868 MHz
Power consumption	2.6 W
Fuse	T 6,3 A
Output	230 VAC, 50 Hz
Switching capacity	250 VAC, 4 A, cos f > 0.8 ind.
Switching time DOWN	3 – 180 seconds
Switching time UP	180 seconds
Permissible motor current (total)	max. 6 A
Operating temp range	0 °C to +40 °C
Type of protection	IP54
Dimensions (L x W x H)	170 x 134 x 85 mm (w/o connections)
Conformity	CE

Central control



Central control Touch Centre XL 4C wired with colour display

Touch Centre is a microprocessor-controlled central control for various products, such as external venetian blinds, awnings, roller shutters, roof lights, ventilation systems, heating and light. The control is designed for medium-sized projects with up to 4 façades and/or storeys and it can be combined with motor controls of the MC-P and MC-R series.

The connected sun protection and closing units are controlled centrally depending on the sun, wind speed, rainfall and time of day. External systems, such as security windows, fire alarm or building services control systems, can be integrated easily. The sensor inputs allow the simultaneous connection (depending on control type) of up to:

- 2 wind sensors (heated / unheated)
- 8 lux sensors
- 1 rain sensor
- 2 temperature sensors
- 1 DCF 77 radio clock receiver
- Additional connections:
- 4 UP/DOWN group buttons
- 1 maintenance switch
- 1 connection for fire alarm unit

The control and communication of the display box are performed via the installed RS 485 4-wire interface. The coloured touch screen display in the display box shows symbols for easiest control and setting of the connected sun protection units.

Article number	606 632 800
-----------------------	-------------

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	10 W
Max. switching capacity	250 VAC, 4 A, cos f > 0.8 ind.
Max. switching capacity (total)	1380 W, 6 A, 230 VAC
Switching time DOWN	3 – 180 s or continuously
Conductor cross-section	
- motor connection	0.14 mm – 2.5 mm ²
- sensors/buttons	0.14 mm – 1.5 mm ²
Operating temp range	0 °C to +40 °C
Type of protection	IP 20 (control box) IP 20 (display box)
Degree of contamination	2 (control box) 2 (display box)
Battery	CR 2032
Dimensions (L x W x H)	270 x 220 x 108 mm (control box)
Colour	Display box black (similar to RAL 9005) / standard version
Conformity	CE

SMI - Standard Motor Interface

WHAT IS SMI?

SMI is the abbreviation for Standard Motor Interface. SMI was developed for connecting intelligent drives with shutter and sun protection systems. SMI permits the transmission of messages from the control system to the drive and vice versa. SMI allows combining products of various makes. The SMI interface makes using high-quality solutions easier and it increases the compatibility of common drives and controls of different makes. Shutter and sun protection equipment must be extraordinarily robust and highly economical. SMI was developed to meet these requirements.



Motor control IF SMI BS 24 V 16 SMI drives 24 V

Intelligent motor control for 16 SMI motors, compatible with all Vestamatic BS central controls. Direct connection possible for 4 SMI motors 24 VDC. Connection programmable for 4 buttons for single command or group command. Up to 3 central groups can be programmed; overlapping groups possible. Programmable with BS Config Software via Vestamatic Bus.

Article number	606 632 003
-----------------------	-------------

TECHNICAL DATA

Supply voltage range	22 – 28 VDC
Rated surge voltage	500 V
Max. output current	2A per SMI motor connection
Operating temp range	0 °C to +40 °C
Type of protection	IP 55
Dimensions (L x W x H)	170 x 135 x 85 mm
Conformity	CE



Motor control IF SMI BS 230 V 16 SMI drives 230 V

Intelligent motor control for 16 SMI motors 230 V, compatible with all Vestamatic BS central controls. Connection programmable for 4 buttons for single command or group command. Up to 3 central groups can be programmed; overlapping groups possible. Programmable with BS Config via PC Vestamatic BUS (BS).

Article number	606 632 107
-----------------------	-------------

TECHNICAL DATA

Supply voltage range	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Max. output current	0 °C to +40 °C
Operating temp range	Software class: A
Type of protection	Type of protection: IP 55
Dimensions (L x W x H)	170 x 135 x 85 mm
Conformity	CE

SMI KNX controls

**Motor control SMI-KNX 8x24 V**

- Connection possible for up to 8 SMI-LoVo motors 24 VDC
- For controlling internal venetian blinds and internal motors
- Compatible with the KNX-BUS system
- Programming button and LED for address signalling at the device
- KNX objects, UP/DOWN, step/stop, shading position, automatic
- Shutter height %, slat %, shutter height status %, slat status %
- Store/call up scene 1+2, drive status
- Individual and group control via KNX output devices (corresponding to EIS7 standard or DPT 1.007 and 1.008 as described in KNX System Specifications Interworking Datapoint Types)

Article number	606 632 002
-----------------------	-------------

TECHNICAL DATA

Supply voltage	24 VDC
Housing	REG 2TE
Interface to the BUS system	KNX, Medium TP1
Interface to the motor	SMI
Communication objects	82
Max. number of group addresses	114
Max. allocation of group addresses	162
Operating temp range	0 °C to +40 °C
Type of protection	IP 20
Dimensions (L x W x D)	90 x 35 x 59 mm
Conformity	CE

**Motor control SMI-KNX 8x230 V**

- Connection possible for up to 8 independent SMI motors 230 VAC
- Programming button and LED for address signalling at the device
- KNX objects, UP/DOWN, step/stop, shading position, automatic
- Shutter height %, slat %, shutter height status %, slat status %
- Store/call up scene 1+2, drive status
- Individual and group control via KNX output devices (corresponding to EIS7 standard or DPT 1.007 and 1.008 as described in KNX System Specifications Interworking Datapoint Types)

Article number	606 632 104
-----------------------	-------------

TECHNICAL DATA

Supply voltage	230 VAC
Housing	REG 2TE
Power consumption	0.6 W via BUS
Interface to the BUS system	KNX, Medium TP1
Interface to the motor	SMI
Communication objects	82
Max. number of group addresses	114
Max. allocation of group addresses	162
Operating temp range	0 °C to +40 °C
Type of protection	IP 20
Dimensions (W x H x D)	35.5 x 90 x 58 mm
Conformity	CE

KNX controls

**Motor control MC KNX 9x230 V**

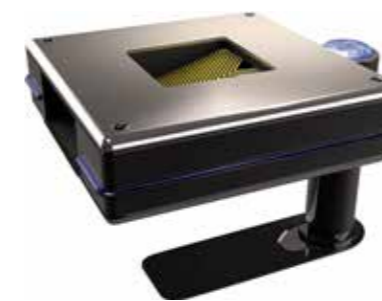
- KNX motor control for the electric drive of venetian blinds, awnings, façade blinds, roller shutters or windows.

Article number	606 632 104
-----------------------	-------------

TECHNICAL DATA

Connection data	
Operating voltage	230 VAC, 50 Hz
Cable	3 conductors (L, N, PE), 1.5 mm ²
Fuse	Single-wire or fine-wire, protection switch max. 13 A
Motor connection	
Type of protection	IP 20
Motor type	Asynchronous motor 230 VAC, 50 Hz, max. 2.5 A, with 2 mechanical limit switches > 0.9
Power factor cable	4 conductors (UP, DOWN, N, PE), 1.5 mm ² , single-wire or fine-wire. Motor neutral conductor can be led separately or together

KNX central controller

**KNX Shade Centre**

KNX central controller with sensors for controlling 8 groups via KNX.

Functions:

- Solar tracking
- Safety program (wind, frost, rain)
- Comfort programs (shade, time, temperature)
- Each sector can be controlled individually
- All thresholds adjustable via KNX
- Integrated sensors for wind, rain/snow, temperature, brightness, global radiation
- Determination of wind direction
- Wear-free wind measurement via ultrasound
- Regulates heat and temperature for a comfortable environment
- Automation for global radiation
- Daylight control for illumination
- Additional sensors can be read in via KNX
- 8 independent sectors/façade sections
- Fault indications for every sensor
- Shading programs with fuzzy logic

Article number	606 632 850
-----------------------	-------------

TECHNICAL DATA

Operating voltage	19 – 28 VDC
Power loss	2.5 W (without heating)
Operating temp range	-30 °C to +60 °C
Sensors	
- temperature	-40 °C to +90 °C
- brightness	0 to 100 kLux
- global radiation	0 to 1200 W/m ²
- wind speed	0 to 35 m/s
- wind direction	0 to 360°
Type of protection:	Type of protection: IP X4
Dimensions (W x D x H)	157 x 198 x 132 mm
Conformity	CE

Lux sensor

**Lux sensor LS30**

Lux sensor for outdoor installation. Sunlight detection angle of approx. 120°, compatible with all Vestamatic controls.

Article number	606 661 301
-----------------------	-------------

TECHNICAL DATA

Operating voltage	5 VDC
Power consumption	0.5 – 4.5 mA
Type of protection	IP 54
Max. line length (lux sensor - control unit)	100 m
Operating temp range	-15 °C to +45 °C
Connection cable	5 m long, LIYY 2 × 0.34 mm ² , white
Dimensions (L × W × H)	85 × 27.5 × 27.5 mm
Conformity	CE

Wind / lux sensor

**Wind / lux sensor WiSo Crystal Station**

Combined wind / lux sensor. Compatible with all Vestamatic controllers

Article number	606 663 302
-----------------------	-------------

TECHNICAL DATA

Wind speed sensor	
Measuring range	2 ... 32 m/s
Output	4 ... 94 Hz
Contact type	1 reed switch
Switching capacity	7.5 VA, max. 30 V _~ , max. 250 mA
Measuring range / lux sensor	0 ... 120 kLux
Power consumption	0.5 ... 4 mA
Operating temp range	-15 °C to +60 °C
Type of protection (sensor unit)	IP 54
Material (plastic parts)	UV-stabilised polycarbonate
Conformity	CE

Power supply units

**Power supply HT 24 V with 2 m cable white with power plug, surface-mounted**

Art. No. 606 600 100

**Power supply 24 V Vestamatic for 1 motor, flush-mounted**

Art. No. 606 600 200

**Power supply 24 V Power 3.0 with 2 m cable white, surface-mounted**

Art. No. 606 600 003



Designation	Switching capacity	No. of 24 V drives possible	Dimensions	Article no.
Power supply HT 24 V with 2 m cable white with power plug, surface-mounted	1A	1	160 × 14 × 12	602 600 100
Power supply 24 V Vestamatic for 1 motor, flush-mounted	1A	1	∅ 55 × 25	606 600 200
Power supply 24 V Power 3.0 with 2 m cable white, surface-mounted	3A	4	103 × 97 × 48	602 610 003
Power supply 24 V Vestamatic for 8 motors, top-hat rail	5A	8	121 × 75 × 110	606 600 300
Power supply 24 V Vestamatic for 16 motors, top-hat rail	10A	16	121 × 100 × 110	606 600 301

**Power supply 24 V Vestamatic for 8 motors, top-hat rail**

Art. No. 606 600 300

**Power supply 24 V Vestamatic for 16 motors, top-hat rail**

Art. No. 606 600 301

Commissioning set Vestamatic for 24 V

Article number	602 700 002
-----------------------	-------------

Vestamatic building controllers as individual as your project

SYSTEM STANDARD

- 8-channel control (can be expanded to 64 channels)
- Conventional system (no BUS)
- User-friendly commissioning / installation
- PC operation and visualisation possible
- Cost-effective

SYSTEM BS

- 8-channel control (can be expanded to 64 channels)
- BUS system
- Parameterisation completely via software
- Maximum flexibility, e.g. changing of groups without the need for installation changes
- Only one BUS line for the entire system
- PC operation and visualisation possible

SYSTEM BS-SMI

- See System BS
- + BUS line to the motors (up to 16 motors)
- + Motor end positions easily adjustable via BUS
- + Cost-effective wiring of the motors

SYSTEM KNX-SMI

- See System KNX
- + BUS line to the motors (up to 16 motors)
- + cost-effective wiring of the motors

SYSTEM KNX

- Control of 8 sectors with automatic solar tracking
- Unlimited number of control groups
- All measured values can be sent via the BUS; this makes more sensors unnecessary for other systems
- The options of combination with other KNX products are unlimited: the KNX certification process ensures that different products of different makes can interact and communicate in different applications = a high degree in flexibility for expansion and modification is ensured

SYSTEM WISO

- 1-channel control
- Conventional system (no BUS)
- User-friendly commissioning / installation
- Very cost-effective
- Elegant touch control

SYSTEM TOUCH CENTRE

- 2 or 4-channel control
- Conventional system (no BUS)
- User-friendly commissioning / installation
- Very cost-effective
- Elegant touch control incl. coloured display



System Standard

VESTA BUILDING CONTROLLER (VBC) IN COMBINATION WITH MOTOR CONTROLS OF THE MC P SERIES



Central control Vesta Building Controller VBC

For motor controls see pages 16 to 17

Article number

606 632 852

System description:

This system offers the control of 8 façades, storeys or control groups ("standard building" with up to ca. 500 sun protection units).

Up to 8 VBCs can communicate in the "Master/Slave" procedure. Control of up to 64 façades, storeys or control groups (channels) possible (for buildings with > 500 sun protection units).

The control of the channel groups (motor controls) is effected via conventional slipring leads (5V). Every channel needs a separate conductor line. However, an external power supply of the conductor line is not required.

Every façade is parameterised individually - depending on the sun protection product - and/or via several channels according to the building conditions.

Weather data, status messages and all parameters can be read and configured directly on the central control. Optionally, these settings can be made with our Internet module at the PC. This also allows easy remote maintenance. Passwords protect our system against manipulations by unauthorised personnel. Any safety-relevant changes and fault indications are stored in a logbook. Various installation options: UP, AP, top-hat rail 230 V and 24 V variants exist.

Control options:

The individual control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective individual button inputs of the motor controls.

Group control is also easily possible with the group button inputs of the motor controls.

Various operating modes depending on the sun protection product offer a great ease of operation e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching.

Every channel has an external input; easy connection of external systems or external operation per channel possible. Input for RWA system, fire protection system and input for maintenance (e.g. window cleaner) available.

Special features:

- No delay → conventional control
- Remote control possible (MC P4 VRS) → teaching method extremely easy
- High resistance to interference → inputs are pulled to ground
- Visualisation at the PC
- Use of a sensor box possible but not mandatory
- No limitation of the lux sensors → 1 sensor per channel possible
- Control of up to 64 channels
- Every VBC can manage 2 wind sensors
- Integrated logbook in VBC
- Easy and cost-effective remote maintenance through VBC Internet modules possible
- Parallel connection of the individual button inputs possible
- Motor runtime can be set for individual control

System BS

VESTA BUILDING CONTROLLER BS (VBC BS) IN COMBINATION WITH MOTOR CONTROL OF THE MC BS SERIES



Central control Vesta Building Controller VBC BS

Article number	606 632 851
----------------	-------------

System description:

This BUS system allows control of 8 façades, storeys or control groups. ("Standard building" with up to ca. 500 sun protection units).

Up to 8 VBCs can communicate in the "Master/Slave" procedure. Control of up to 64 façades, storeys or control groups (channels) possible (for buildings with > 500 sun protection units).

The control of all channel groups (motor controls) is effected via a BUS line. However, an external power supply of the conductor line is not required.

Every façade is parameterised individually - depending on the sun protection product - and/or via several channels according to the building conditions.

The connected sensors (e.g. wind, wind direction, sun, rain, temperature, etc.) can be evaluated and parameterised separately for every channel. Weather data, status messages and all parameters can be read and configured directly on the central control. Optionally, these settings can be made with our Internet module at the PC. This also allows easy remote maintenance. Passwords protect our system against manipulations by unauthorised personnel. Any safety-relevant changes and fault indications are stored in a logbook.

Control options:

The individual control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective individual button inputs of the motor controls. The group control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective freely programmable group button inputs of the motor controls.

Various operating modes depending on the sun protection product offer a great ease of operation e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching. Every channel has an external input; easy connection of external systems or external operation per channel possible. Input for RWA system, fire protection system and input for maintenance (e.g. window cleaner) available.

Special features:

- The software "BS Config" allows to configure fast and easily central groups, subgroups and individual control; later building-related modifications are also possible.
- No BUS delay → LONMark network (extremely fast)
- All BS motor controls and the BUS are permanently monitored for proper functioning
- Visualisation at the PC
- Use of a sensor box possible but not mandatory
- No limitation of the lux sensors → 1 sensor per channel possible
- Control of up to 64 channels
- Every VBC can manage 2 wind sensors
- Integrated logbook in VBC
- Easy and cost-effective remote maintenance through VBC Internet modules possible
- Parallel connection of the individual button inputs possible
- Motor runtime can be set for individual control



System BS - SMI

VESTA BUILDING CONTROLLER BS (VBC BS) IN COMBINATION WITH IF SMI BS



Central control Vesta Building Controller VBC BS

Article number	606 632 851
----------------	-------------

Motor control IF SMI BS 24 V 16 SMI drives 24 V

Article number	606 632 003
----------------	-------------

System description:

This system is a combination of two different BUS systems: Vestamatic BUS (BS) in combination with SMI-BUS (Standard Motor Interface). The interface used is (motor control) IF SMI BS. This combination offers the control of 8 façades, storeys or control groups ("standard building" with up to ca. 500 sun protection units). Up to 8 VBCs can communicate in the "Master/Slave" procedure; control of up to 64 façades, storeys or control groups (channels) possible (for buildings with > 500 sun protection units). The control of all channel groups (motor controls) is effected via a BUS line. However, an external power supply of the conductor line is not required.

The two BUS systems communicate via the interface (motor control) IF SMI BS. Every façade is parameterised individually - depending on the sun protection product - and/or via several channels according to the building conditions. The connected sensors (e.g. wind, wind direction, sun, rain, temperature, etc.) can be evaluated and parameterised separately for every channel.

Weather data, status messages and all parameters can be read and configured directly on the central control. Optionally, these settings can be made with our Internet module at the PC. This also allows easy remote maintenance. Passwords protect our system against manipulations by unauthorised personnel. Any safety-relevant changes and fault indications are stored in a logbook. 230 V and 24 V variants exist.

Control options:

The individual / and group control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective freely programmable inputs of the motor controls. Various operating modes depending on the sun protection product offer a great ease of operation → e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching. Every channel has an external input; easy connection of external systems or external operation per channel possible. Input for RWA system, fire protection system and input for maintenance (e.g. window cleaner) available.

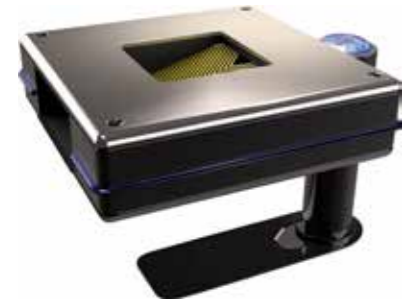
Special features:

- Synchronous run of the SMI motors
- End positions easily adjustable via BUS
- Direct control of tilting position (no delay as with common motors)
- Motor runtime and tilt can be set individually per motor; even different control behaviours (central command - individual command) possible → saving of energy
- Up to 16 motors can be connected to one BS motor control
- Cost-effective solution despite BUS system
- SMI-BUS offers high saving
- Installation cost → BUS line to the motors
- The software "BS Config" allows to configure fast and easily central groups, subgroups and individual control; later building-related modifications are also possible.
- No BUS delay → LONMark network (extremely fast)
- All BS motor controls and the BUS are permanently monitored for proper functioning (motor monitoring is also possible if required)
- One BS motor control can be allocated to several channels (important aspect for connection of 16 motors)
- Visualisation at the PC (even motor position possible)



System KNX

KNX SHADE CENTRE IN COMBINATION WITH MOTOR CONTROL MC KNX9



Central control KNX Shade Centre with sensors for controlling 8 KNX groups	
Article number	606 632 850

Power supply for KNX Shade Centre	
Article number	606 632 880

Mast extension for KNX Shade Centre	
Article number	606 632 881

Motor control MC KNX 9x230 V	
Article number	606 632 104



System description:

This system is a combination of two different BUS systems: Vestamatic BUS (BS) in combination with SMI-BUS (Standard Motor Interface). The interface used is (motor control) IF SMI BS. This combination allows control of 8 façades, storeys or control groups. ("Standard building" with up to ca. 500 sun protection units). Up to 8 VBCs can communicate in the "Master/Slave" procedure; control of up to 64 façades, storeys or control groups (channels) possible. (for buildings with > 500 sun protection units). The control of all channel groups (motor controls) is effected via a BUS line. However, an external power supply of the conductor line is not required.

The two BUS systems communicate via the interface (motor control) IF SMI BS. Every façade is parameterised individually - depending on the sun protection product - and/or via several channels according to the building conditions. The connected sensors (e.g. wind, wind direction, sun, rain, temperature, etc.) can be evaluated and parameterised separately for every channel. Weather data, status messages and all parameters can be read and configured directly on the central control. Optionally, these settings can be made with our Internet module at the PC. This also allows easy remote maintenance. Passwords protect our system against manipulations by unauthorised personnel. Any safety-relevant changes and fault indications are stored in a logbook. 230 V and 24 V variants exist.

Control options:

The individual / and group control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective freely programmable button inputs of the motor controls. Alternatively, all KNX buttons or all binary input modules can be combined with our system.

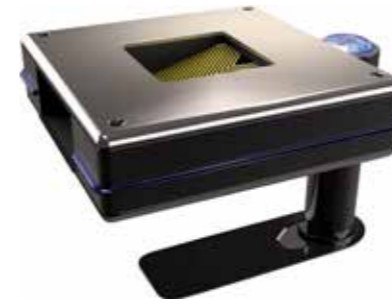
Various operating modes depending on the sun protection product offer a great ease of operation → e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching. Control via App possible → IF KNX IP Wireless.

Special features:

- A complete sun protection system can be built with only two products. Our motor control can also be used as KNX input module → 18 binary inputs.
- Every sector is equipped with automatic solar tracking → maximum light comfort + maximum energy saving.
- Automatic functions make complicated commissioning unnecessary; when mechanical motors are connected the motor runtime is determined automatically. 33 different automatic programs can be freely selected.
- All measured values can be sent to the BUS. This makes other sensors for other systems unnecessary.
- The options of combination with other KNX products are unlimited: the KNX certification process ensures that different products of different makes can interact and communicate in different applications. This offers a high degree of flexibility when extending and modifying installations.
- Communication with other systems (e.g. building services control, fire protection, RWA, etc.) is easily feasible.

System KNX - SMI

KNX SHADE CENTRE IN COMBINATION WITH MOTOR CONTROL IF SMI KNX



Central control KNX Shade Centre with sensors for controlling 8 KNX groups	
Article number	606 632 850

Power supply for KNX Shade Centre	
Article number	606 632 880

Mast extension for KNX Shade Centre	
Article number	606 632 881

Motor control SMI-KNX 8x24 V	
Article number	606 632 002

Motor control SMI-KNX 8x230 V	
Article number	606 632 106



System description:

This system is a combination of two different BUS systems: KNX in combination with SMI-BUS (Standard Motor Interface). The interface used is (motor control) IF SMI KNX. This BUS system allows the individual control of 8 sectors (in connection with solar tracking). The number of controlled groups is unlimited. The control of the actuators (motor controls) is effected via a BUS line. An external power supply of the conductor line is mandatory. Every façade is parameterised individually - depending on the sun protection product - and/or via several channels/sectors according to the building conditions.

The integrated sensors in the central control (e.g. wind, wind direction, global radiation, sun, rain, temperature, etc.) can be evaluated and parameterised separately for every sector/channel. The commissioning is made with the KNX System Integrator using the commissioning tool (ETS) that is independent of the product. 230 V and 24 V variants exist.

Control options, e.g.:

- MC KNX9 as binary input module: The individual / and group control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective freely programmable button inputs of the binary input module.
- All KNX buttons
- All binary input modules → Control via App possible IF KNX IP Wireless

Special features:

- Synchronous run of the SMI motors
- End positions easily adjustable via BUS
- Direct control of tilting position (no delay as with common motors)
- Motor runtime and tilt can be set individually per motor; even different control behaviours (central command - individual command) possible → saving of energy
- SMI-BUS offers high saving
- Installation cost → BUS line to the motors
- Every sector is equipped with automatic solar tracking → maximum light comfort + maximum energy saving
- Automation functions make complicated commissioning unnecessary
- 33 different automatic programs can be freely selected.
- All measured values can be sent to the BUS. This makes other sensors for other systems unnecessary.
- The options of combination with other KNX products are unlimited: the KNX certification process ensures that different products of different makes can interact and communicate in different applications. This offers a high degree of flexibility when extending and modifying installations.
- Communication with other systems (e.g. building services control, fire protection, RWA, etc.) is easily feasible.

SYSTEM WiSo Quattro

COMBINATION WITH MOTOR CONTROLS OF THE MC P SERIES



Timer WiSo Quattro

Article number 606 660 102

System description:

This system allows control of one façade, storey or control group. ("Standard building" with up to ca. 50 sun protection units). The control of the channel group (motor controls) is effected via conventional slipring leads (5V). An external power supply of the conductor line is not required.

The central control is parameterised for the respective sun protection product depending on the connected sensors (e.g. wind, sun, rain).

Weather data, status messages and all parameters can be read and configured directly on the central control. Various installation options: UP, AP, top-hat rail. 230 V and 24 V variants exist.

TECHNICAL DATA

Operating voltage	230 VAC, 50 Hz
Rated surge voltage	2.5 kV
Power consumption	2 W
Output (UP/DOWN)	230 VAC, 50 Hz
Switching capacity	250 VAC, 3 A, cos f > 0.8 ind.
Switching time DOWN	3 - 180 seconds
Tilting time	0 - 30 seconds
Software class	A
Operating temp range	0 °C to +40 °C
Type of protection	IP 30
Battery:	CR 2032
Dimensions (L x W x H)	50 x 50 x 46 mm (w/o frame)
Colour	Signal white (similar to RAL 9016)
Conformity	CE

Control options:

- Touch display
- The individual control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective individual button inputs of the motor controls.
- Group control is also easily possible with the group button inputs of the motor controls.
- Various operating modes depending on the sun protection product offer a great ease of operation, e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching.
- WiSo Time and WiSo Quattro can be time-programmed (e.g. fixed times per day for extending / retracting).
- The WiSo Quattro has an illuminated touch display.

Special features:

- No delay → conventional control
- Remote control possible (MC P4 VRS) → teaching method extremely easy
- High resistance to interference → inputs are pulled to ground
- Parallel connection of the individual button inputs possible
- Motor runtime can be set for individual control

SYSTEM Touch Centre 4-channel

COMBINATION WITH MOTOR CONTROLS OF THE MC P SERIES



Central control Touch Centre XL 4C wired with colour display

For motor controls see pages 16 to 17

Article number 606 632 800

System description:

This system offers the control of 2 / 4 façades, storeys or control groups ("standard building" with up to ca. 100 / 250 sun protection units). The control of the channel groups (motor controls) is effected via conventional slipring leads (5V). Every channel needs a separate conductor line. However, an external power supply of the conductor line is not required.

Every façade is parameterised individually - depending on the sun protection product - and/or via several channels according to the building conditions. The connected sensors (e.g. wind, sun, rain, temperature, etc.) can be evaluated and parameterised separately for every channel.

Weather data, status messages and all parameters can be read and configured directly on the central control. Passwords protect our system against manipulations by unauthorised personnel. Any safety-relevant changes and fault indications are stored in a logbook. Various installation options: UP, AP, top-hat rail. 230 V and 24 V variants exist.

Control options:

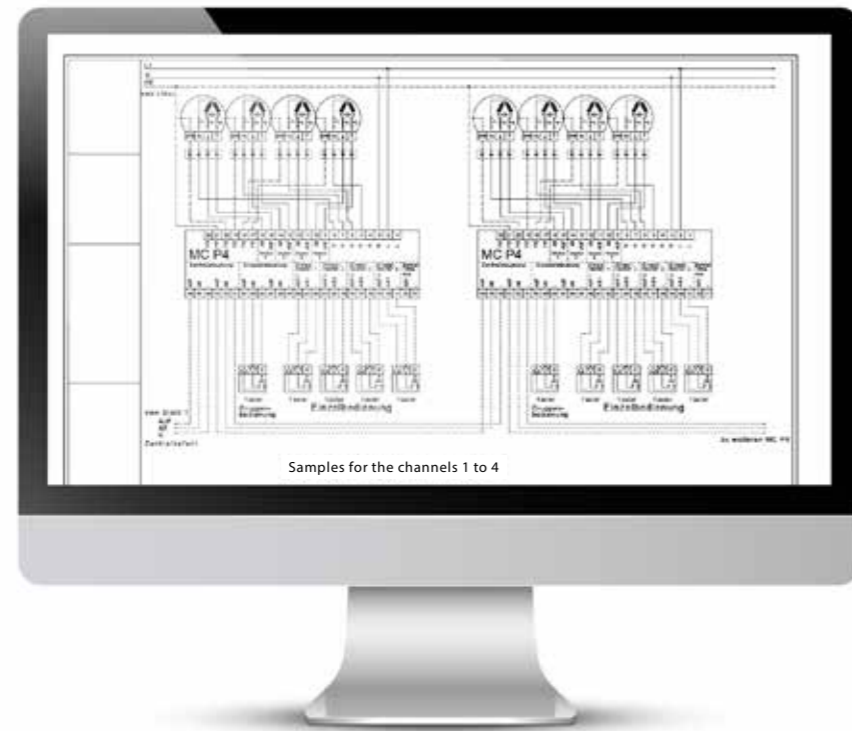
- Coloured touch display
- The individual control of the sun protection units is made with common buttons (usually provided on site). They are connected to the respective individual button inputs of the motor controls. Group control is also easily possible with the group button inputs of the motor controls.
- Various operating modes depending on the sun protection product offer a great ease of operation, e.g. operating mode "venetian blind": Inching mode up to 2 s, then latching.
- Every channel has an external input
- Easy connection of external systems or remote control per channel possible
- Input for RWA or fire protection system available
- Input for maintenance, e.g. window cleaner, available
- Central control with operation via coloured touch display for two or four potential-free groups to control motors or motor controls (of the R and P series).
- 24 VDC / 230 VAC.
- Sensor connections (max.): 2 wind sensors
4 / 8 lux sensors
1 rain- / frost sensor
2 temperature sensors
1 DCF 77
1 fire alarm system
1 maintenance switch

Special features:

- No delay → conventional control
- Remote control possible (MC P4 VRS) → teaching method extremely easy
- High resistance to interference → inputs are pulled to ground
- Integrated logbook
- Parallel connection of the individual button inputs possible
- Motor runtime can be set for single control

Operating and installation instructions

erfal provides all operating and installation instructions for downloading in the specialist retailer section at www.erfal.de.





Drive and control programme – Objecta
This catalogue is protected by copyright. Reproduction, including excerpts, is subject to the previous permission
by erfal GmbH & Co. KG. Errors, printing and typesetting errors excepted.
Edition of January 2016

erfal GmbH & Co. KG
www.erfal.de

EN

a new room experience – www.erfal.de

