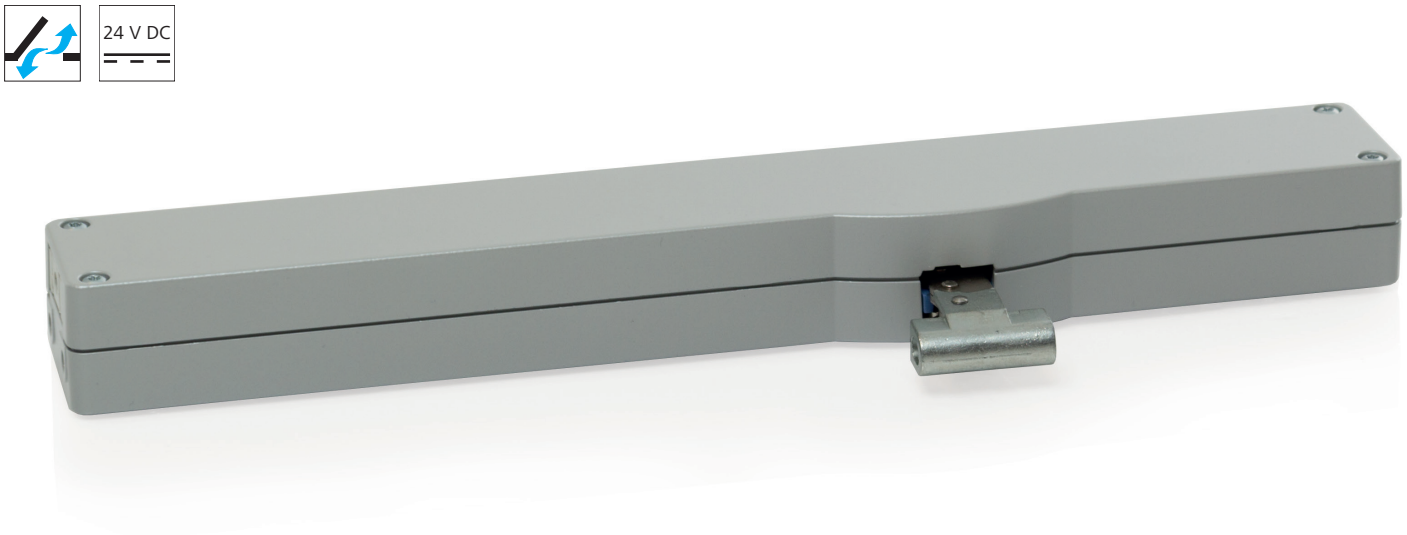
VCD 203 drive



5014068.14001

Find out about permission details from your D+H Partner

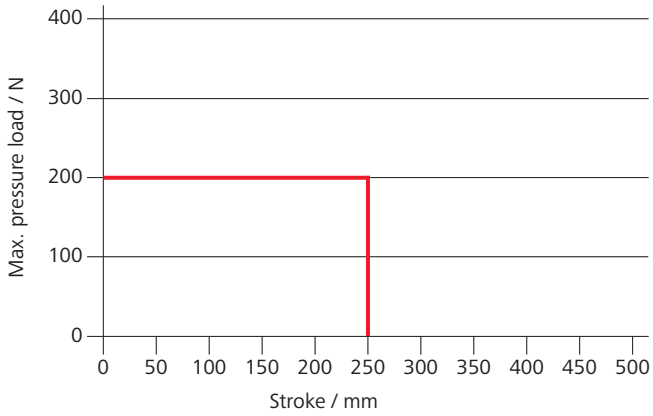
Performance features

- For façade windows, roof windows and ventilation flaps in conservatories
- With motor electronics controlled via microprocessor
- “TMS+” tandem safety function for operating 2 drives on one sash
- Option of chain stroke programming via magnet
- Reprogrammed opening stroke is transmitted to the tandem drive
- Simple connection via plug connector
- Programmable drive functions and different drive parameters
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

Potential drive options

You can find the explanations for the icons on the last page

Pressure load diagram



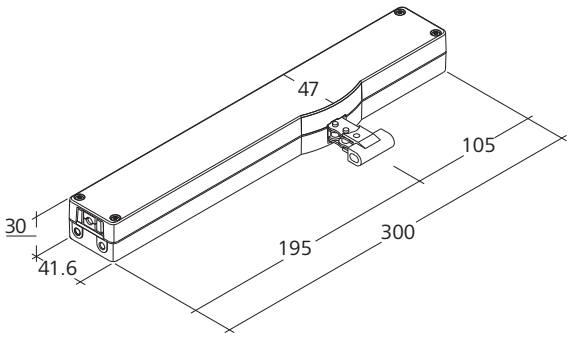
Technical data

Supply	24 V DC / ±20 % / 0.35 A
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	2000 N
Service life	20000 double strokes *
OPEN running speed	6 mm/s
CLOSED running speed	6 mm/s
Type of protection	IP 30
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	0 °C ... +60 °C
Housing	Die-cast zinc
Surface	Powder-coated
Connection	2.5 m PVC-cable
W x H x D	300 x 30 x 47 mm
Weight	1.40 kg

* For vertical use, please consult with D+H Sales !

Dimensions

All specifications in mm



Design

Type	Art. No.	Stroke	Colour	Remark
VCD 203/250 (SR)	25.150.05	250 mm	Silver (~ RAL 9006)	
VCD 203/250 (BK)	25.150.07	250 mm	Black (~ RAL 9005)	
VCD 203/250 (WH)	25.150.06	250 mm	White (~ RAL 9016)	
VCD 203-PLP	25.150.00			Variable equipment possible

Brackets are not included and have to be ordered separately.

VCD 204 drive

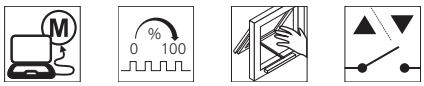
5014068.14001

Find out about permission details from your D+H Partner

Performance features

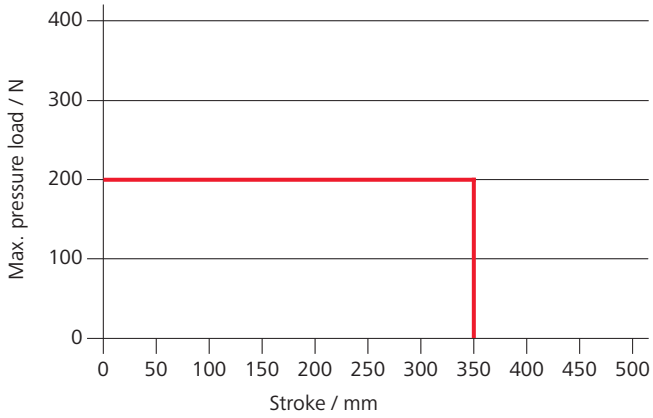
- For façade windows, roof windows and ventilation flaps in conservatories
- With motor electronics controlled via microprocessor
- Special chain stabilisation and centred chain outlet
- "TMS+" tandem safety function for operating 2 drives on one sash
- Option of chain stroke programming via magnet
- Reprogrammed opening stroke is transmitted to the tandem drive
- Simple connection via plug connector
- Programmable drive functions and different drive parameters
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

Potential drive options



You can find the explanations for the icons on the last page

Pressure load diagram



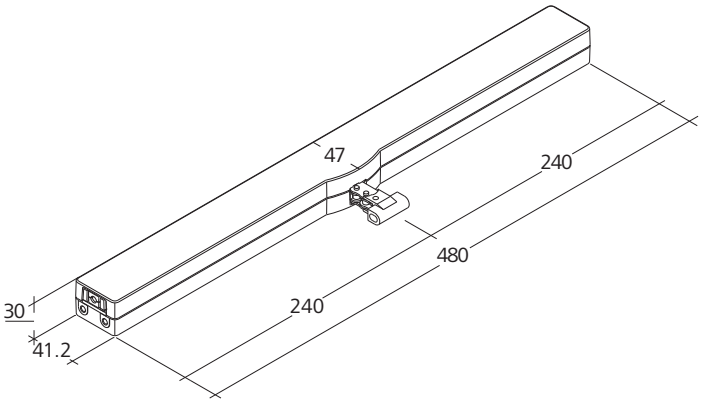
Technical data

Supply	24 V DC / ±20 % / 0.35 A
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	2000 N
Service life	20000 double strokes *
OPEN running speed	6 mm/s
CLOSED running speed	6 mm/s
Type of protection	IP 30
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	0 °C ... +60 °C
Housing	Die-cast zinc
Surface	Powder-coated
Connection	2.5 m PVC-cable
W x H x D	480 x 30 x 47 mm
Weight	1.50 kg

* For vertical use, please consult with D+H Sales !

Dimensions

All specifications in mm

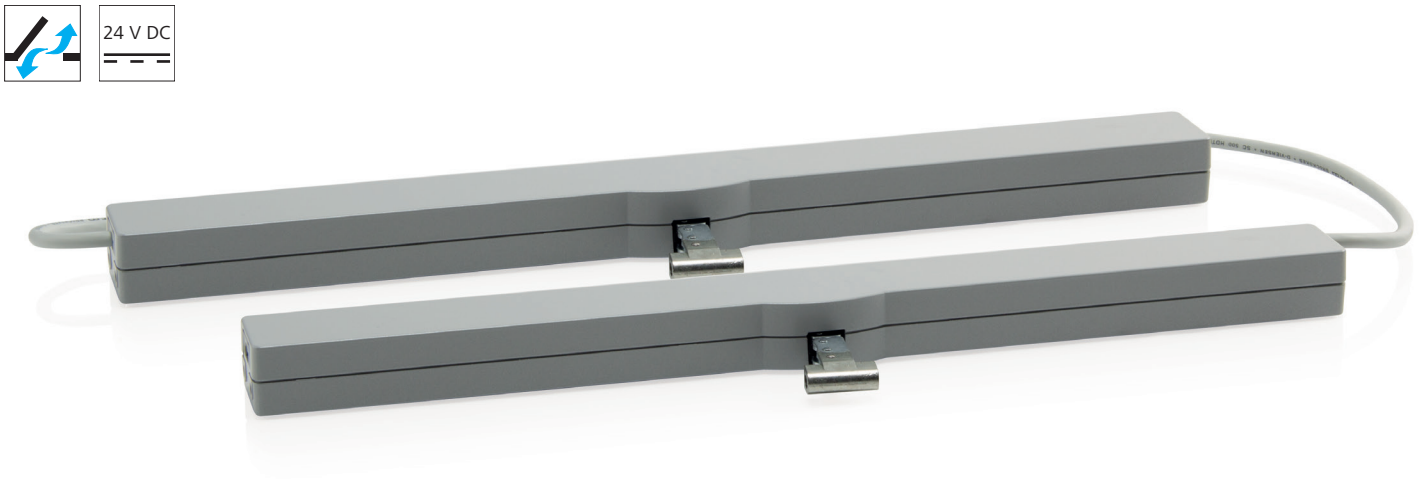


Design

Type	Art. No.	Stroke	Colour	Remark
VCD 204/250 (SR)	25.100.05	250 mm	Silver (~ RAL 9006)	
VCD 204/250 (BK)	25.100.07	250 mm	Black (~ RAL 9005)	
VCD 204/250 (WH)	25.100.06	250 mm	White (~ RAL 9016)	
VCD 204/350 (SR)	25.100.10	350 mm	Silver (~ RAL 9006)	
VCD 204/350 (BK)	25.100.12	350 mm	Black (~ RAL 9005)	
VCD 204/350 (WH)	25.100.11	350 mm	White (~ RAL 9016)	
VCD 204-PLP	25.100.00			Variable equipment possible

Brackets are not included and have to be ordered separately.

VCD 204-TMS+ Set drive



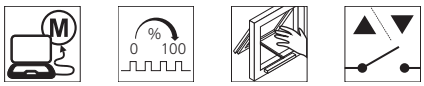
5014068.14001

Find out about permission details from your D+H Partner

Performance features

- For façade windows, roof windows and ventilation flaps in conservatories
- With motor electronics controlled via microprocessor
- Special chain stabilisation and centred chain outlet
- “TMS+” tandem safety function for operating 2 drives on one sash
- Option of chain stroke programming via magnet
- Reprogrammed opening stroke is transmitted to the tandem drive
- Direct cable guidance between the drives for visually appealing solution
- Simple connection via plug connector
- Programmable drive functions and different drive parameters
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

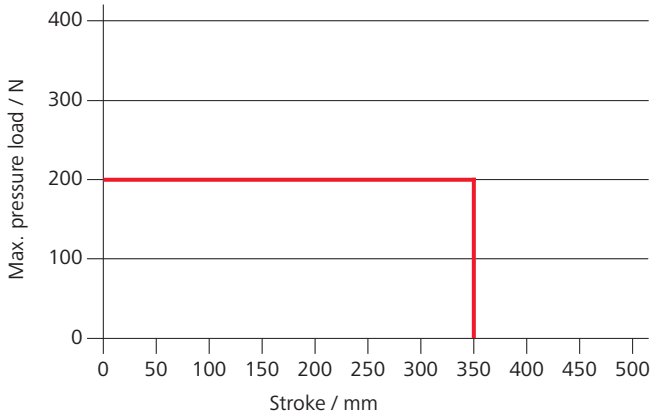
Potential drive options



You can find the explanations for the icons on the last page

Pressure load diagram

Specification per drive



Technical data

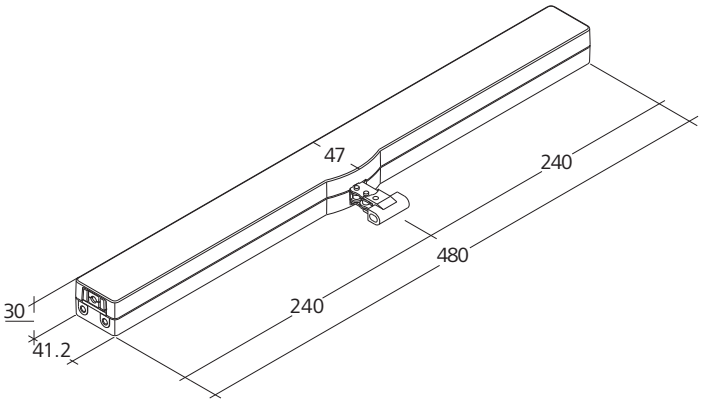
Specification per drive

Supply	24 V DC / ±20 % / 0.35 A
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	2000 N
Service life	20000 double strokes *
OPEN running speed	6 mm/s
CLOSED running speed	6 mm/s
Type of protection	IP 30
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	0 °C ... +60 °C
Housing	Die-cast zinc
Surface	Powder-coated
Connection	2.5 m PVC-cable
W x H x D	480 x 30 x 47 mm
Weight	1.50 kg

* For vertical use, please consult with D+H Sales !

Dimensions

All specifications in mm



Design

Type	Art. No.	Stroke	Colour	Remark
VCD 204/350-TMS+ Set (SR)	25.122.05	350 mm	Silver (~ RAL 9006)	
VCD 204/350-TMS+ Set (BK)	25.122.07	350 mm	Black (~ RAL 9005)	
VCD 204/350-TMS+ Set (WH)	25.122.06	350 mm	White (~ RAL 9016)	
VCD 204-PLP	25.100.00			Variable equipment possible

Brackets are not included and have to be ordered separately.

VCD 204-K drive

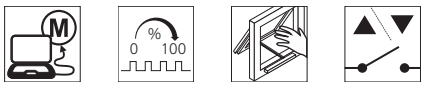
5014068.14001

Find out about permission details from your D+H Partner

Performance features

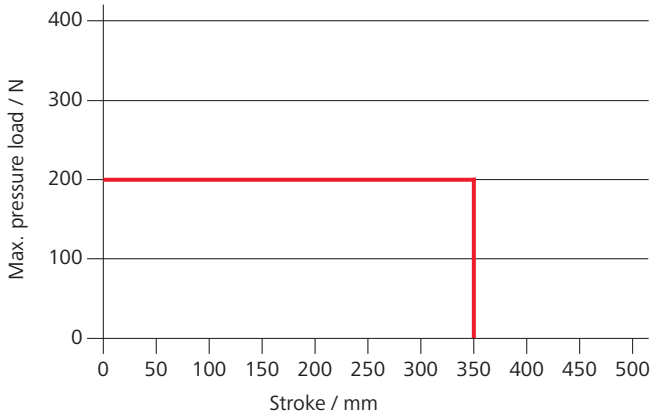
- For façade windows, roof windows and ventilation flaps in conservatories
- With motor electronics controlled via microprocessor
- Direct control via 230 V AC
- Special chain stabilisation and centred chain outlet
- Option of chain stroke programming via magnet
- Simple connection via plug connector
- Programmable drive functions and different drive parameters
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

Potential drive options



You can find the explanations for the icons on the last page

Pressure load diagram



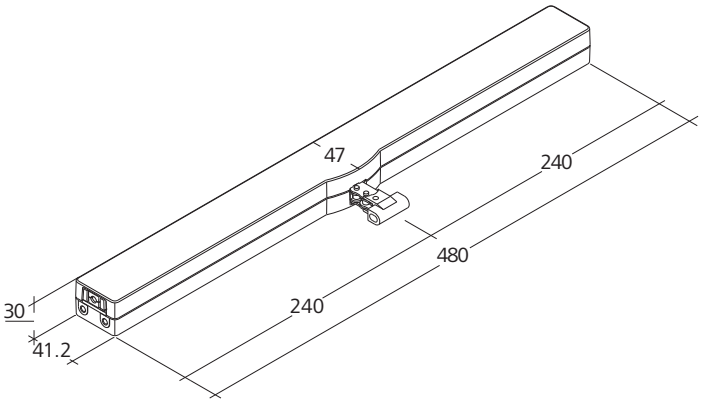
Technical data

Supply	230 V AC / +10 % ... -15 % / 50 ... 60 Hz
Performance	10 W / 15 VA
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	2000 N
Service life	20000 double strokes *
OPEN running speed	6 mm/s
CLOSED running speed	6 mm/s
Type of protection	IP 30
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	0 °C ... +60 °C
Housing	Die-cast zinc
Surface	Powder-coated
Connection	2.5 m PVC-cable
W x H x D	480 x 30 x 47 mm
Weight	1.60 kg

* For vertical use, please consult with D+H Sales !

Dimensions

All specifications in mm

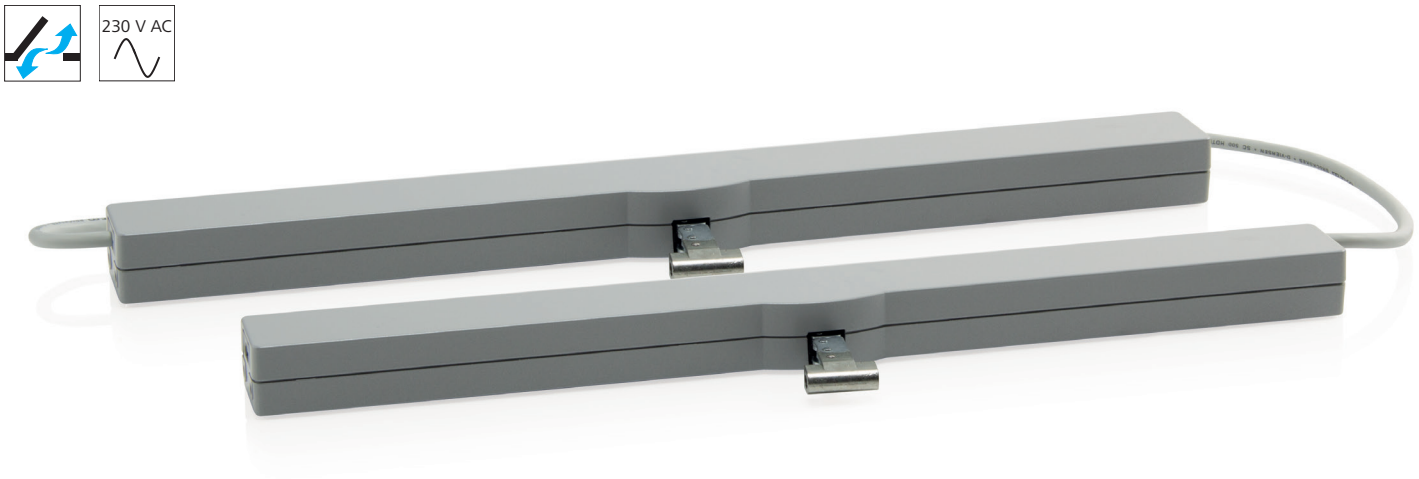


Design

Type	Art. No.	Stroke	Colour	Remark
VCD 204/250-K (SR)	25.120.05	250 mm	Silver (~ RAL 9006)	
VCD 204/250-K (BK)	25.120.07	250 mm	Black (~ RAL 9005)	
VCD 204/250-K (WH)	25.120.06	250 mm	White (~ RAL 9016)	
VCD 204/350-K (SR)	25.120.10	350 mm	Silver (~ RAL 9006)	
VCD 204/350-K (BK)	25.120.12	350 mm	Black (~ RAL 9005)	
VCD 204/350-K (WH)	25.120.11	350 mm	White (~ RAL 9016)	
VCD 204-K	25.120.00			Variable equipment possible

Brackets are not included and have to be ordered separately.

VCD 204-K-TMS+ Set drive



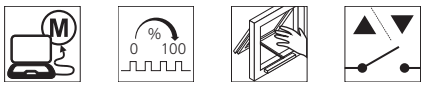
5014068.14001

Find out about permission details from your D+H Partner

Performance features

- For façade windows, roof windows and ventilation flaps in conservatories
- With motor electronics controlled via microprocessor
- Direct control via 230 V AC
- Special chain stabilisation and centred chain outlet
- “TMS+” tandem safety function for operating 2 drives on one sash
- Option of chain stroke programming via magnet
- Reprogrammed opening stroke is transmitted to the tandem drive
- Simple connection via plug connector
- Programmable drive functions and different drive parameters
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

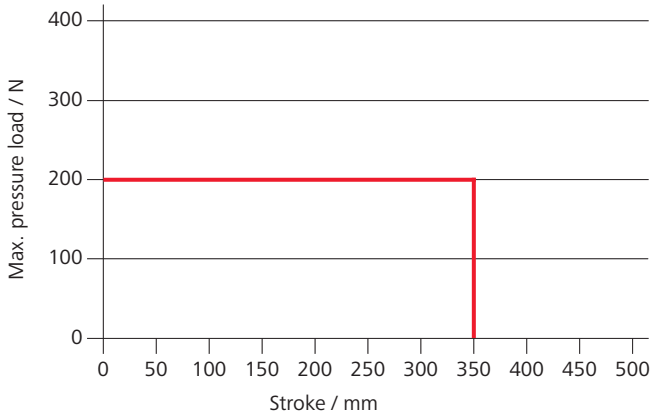
Potential drive options



You can find the explanations for the icons on the last page

Pressure load diagram

Specification per drive



Technical data

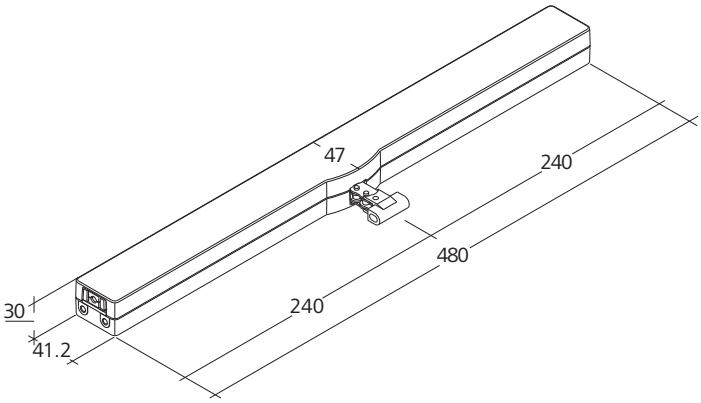
Specification per drive

Supply	230 V AC / +10 % ... -15 % / 50 ... 60 Hz
Performance	10 W / 15 VA
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	2000 N
Service life	20000 double strokes *
OPEN running speed	6 mm/s
CLOSED running speed	6 mm/s
Type of protection	IP 30
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	0 °C ... +60 °C
Housing	Die-cast zinc
Surface	Powder-coated
Connection	2.5 m PVC-cable
W x H x D	480 x 30 x 47 mm
Weight	1.60 kg

* For vertical use, please consult with D+H Sales !

Dimensions

All specifications in mm

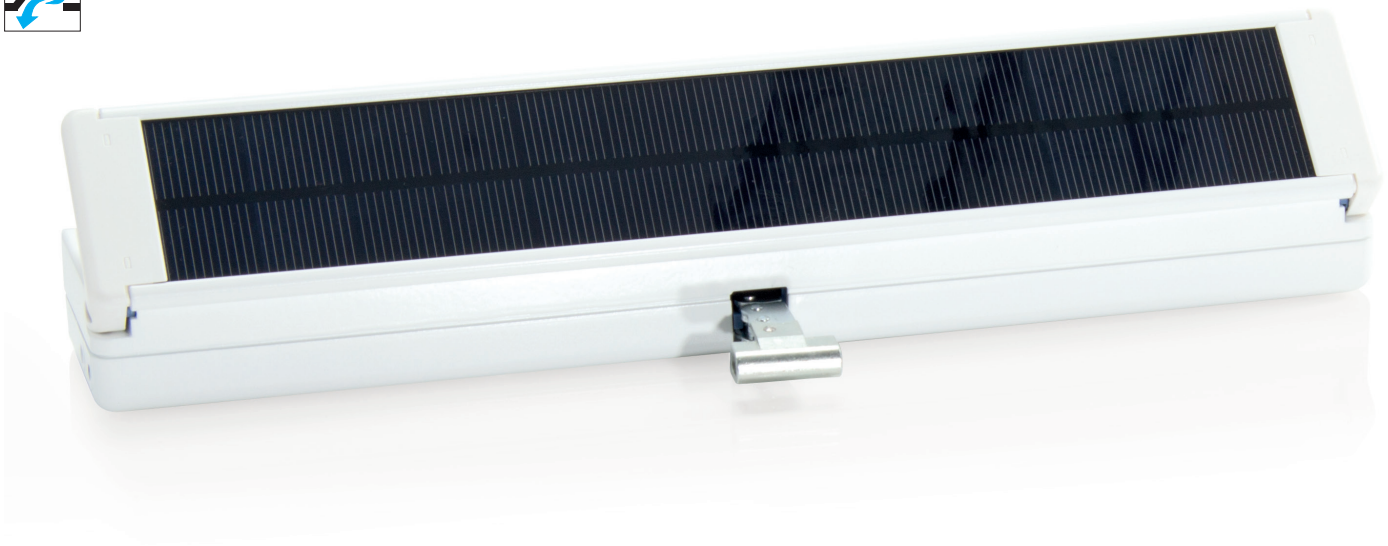


Design

Type	Art. No.	Stroke	Colour	Remark
VCD 204/250-K-TMS+ Set (SR)	25.121.05	250 mm	Silver (~ RAL 9006)	
VCD 204/250-K-TMS+ Set (BK)	25.121.07	250 mm	Black (~ RAL 9005)	
VCD 204/250-K-TMS+ Set (WH)	25.121.06	250 mm	White (~ RAL 9016)	
VCD 204/350-K-TMS+ Set (SR)	25.121.10	350 mm	Silver (~ RAL 9006)	
VCD 204/350-K-TMS+ Set (BK)	25.121.12	350 mm	Black (~ RAL 9005)	
VCD 204/350-K-TMS+ Set (WH)	25.121.11	350 mm	White (~ RAL 9016)	
VCD 204-K-TMS+ Set	25.121.00			Variable equipment possible

Brackets are not included and have to be ordered separately.

VCD-S drive



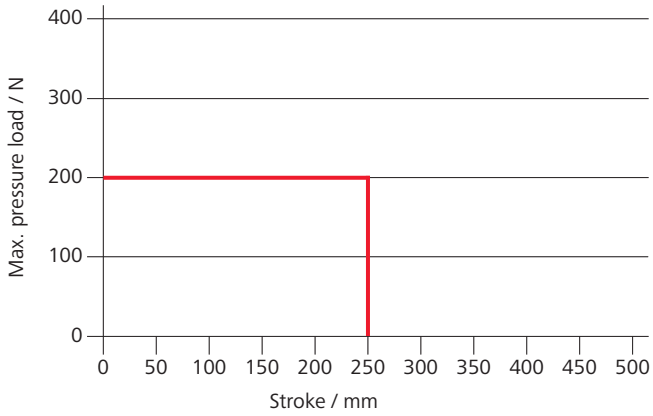
Performance features

- For opening and closing roof windows and conservatories for which a sufficient drive charge is possible using direct sunlight
- Solar-powered - no power supply or cable routing required
- Energy-saving - integrated automatic 10 min. ventilation
- Convenient - Control for half or full ventilation opening
- Flexible, can control up to 10 drives with one remote control
- Easy and quick installation for new constructions, retrofitting and DIY
- “TMS+” tandem safety function for operating 2 drives on one sash
- Ability to be controlled wirelessly via remote with secure 128 bit AES wireless encryption to protect against external control
- High level of security against external control – 32 bit address code and transmitting code change at each button press (hopping code)

Accessories

Radio remote control

Pressure load diagram

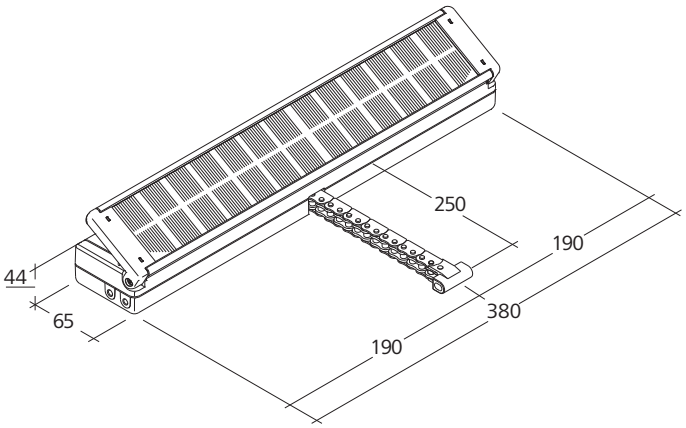


Technical data

Supply	Monocrystalline solar panel
Battery pack	2x NiMH 4.8 V / 2000 mAh
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	1500 N
Service life	> 10000 double strokes
OPEN running speed	5 mm/s
CLOSED running speed	5 mm/s
Type of protection	IP 50
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	+5 °C ... +60 °C
Radio frequency	868.3 MHz / FSK
Transmitter range	Max. 100 m free field
Housing	Die-cast zinc
W x H x D	380 x 44 x 65 mm
Weight	2.30 kg

Dimensions

All specifications in mm



Design

Type	Art. No.	Stroke	Colour
VCD-S 200/250-RC-TMS (SR)	25.033.11	250 mm	Silver (~ RAL 9006)
VCD-S 200/250-RC-TMS (BK)	25.033.16	250 mm	Black (~ RAL 9005)
VCD-S 200/250-RC-TMS (WH)	25.033.06	250 mm	White (~ RAL 9016)

Brackets are not included and have to be ordered separately.

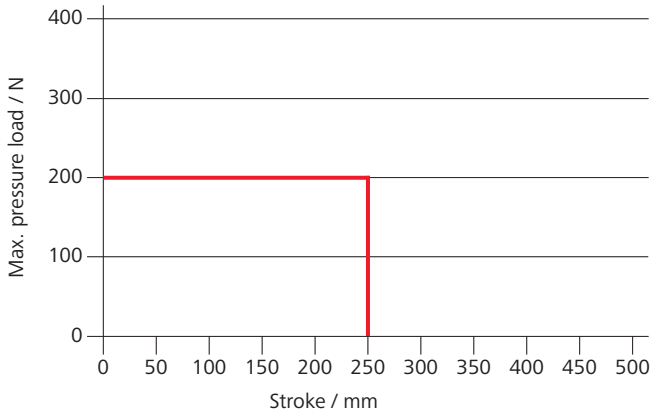
VCD-S Set drive

Including brackets + remote control

Performance features

- For opening and closing roof windows and conservatories for which a sufficient drive charge is possible using direct sunlight
- Solar-powered - no power supply or cable routing required
- Energy-saving - integrated automatic 10 min. ventilation
- Convenient - Control for half or full ventilation opening
- Flexible, can control up to 10 drives with one remote control
- Easy and quick installation for new constructions, retrofitting and DIY
- “TMS+” tandem safety function for operating 2 drives on one sash
- Ability to be controlled wirelessly via remote with secure 128 bit AES wireless encryption to protect against external control
- High level of security against external control – 32 bit address code and transmitting code change at each button press (hopping code)

Pressure load diagram

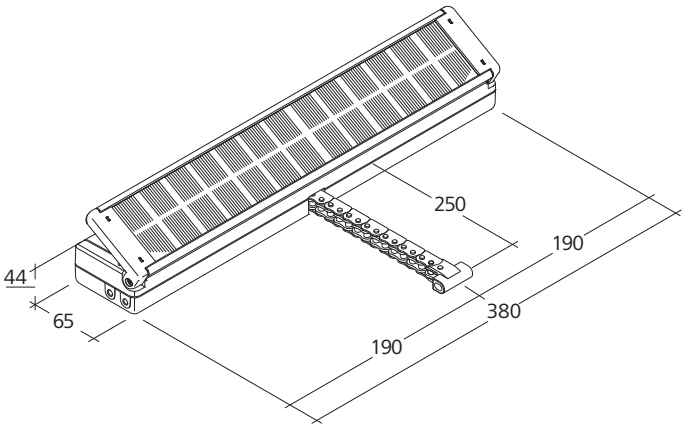


Technical data

Supply	Monocrystalline solar panel
Battery pack	2x NiMH 4.8 V / 2000 mAh
Duty cycle	30 %
Force of pressure	200 N
Tensile force	150 N
Nominal locking force	1500 N
Service life	> 10000 double strokes
OPEN running speed	5 mm/s
CLOSED running speed	5 mm/s
Type of protection	IP 50
Emission sound pressure level	LpA ≤ 70 dB(A)
Temperature range	+5 °C ... +60 °C
Radio frequency	868.3 MHz / FSK
Transmitter range	Max. 100 m free field
Housing	Die-cast zinc
W x H x D	380 x 44 x 65 mm
Weight	2.70 kg

Dimensions

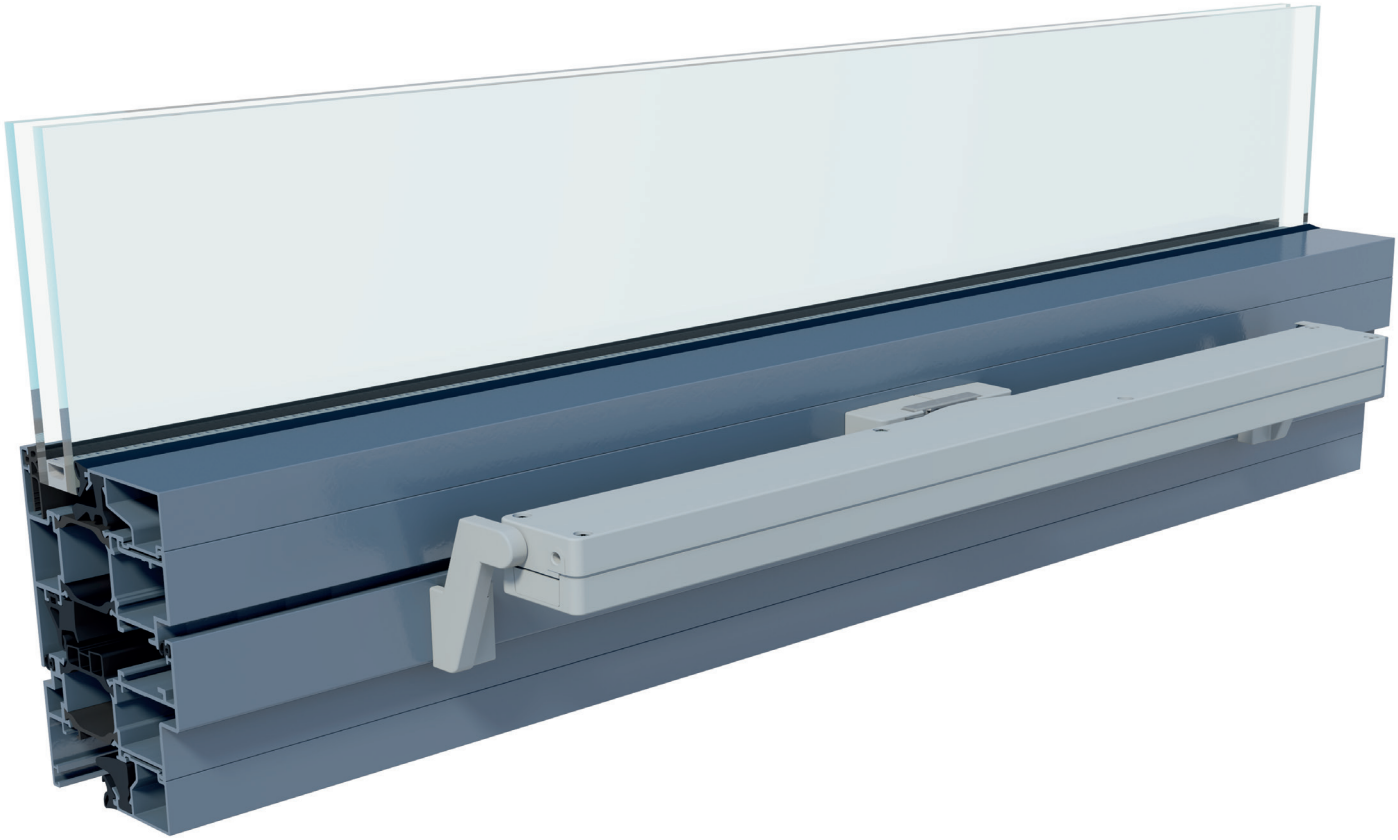
All specifications in mm

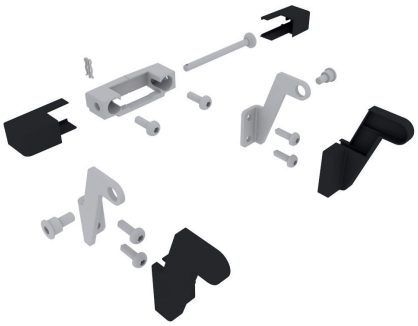


Design

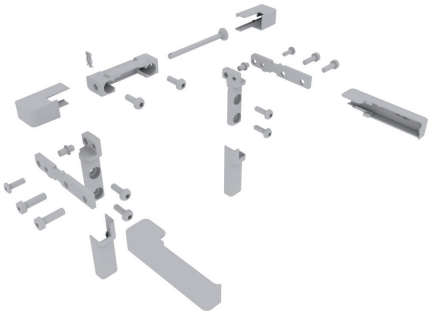
Type	Art. No.	Stroke	Colour
VCD-S Starter-Set (SR)	25.030.10	250 mm	Silver (~ RAL 9006)
VCD-S Starter-Set (BK)	25.030.15	250 mm	Black (~ RAL 9005)
VCD-S Starter-Set (WH)	25.030.05	250 mm	White (~ RAL 9016)

Bracket sets for VCD

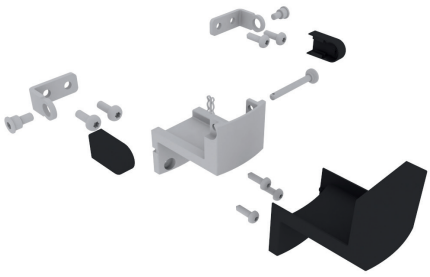




VCD-BS007-VFO (BK)



VCD-BS001-VSI (SR)

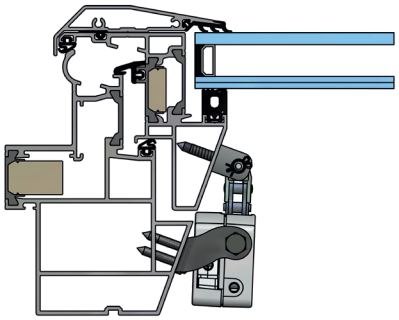


VCD-BS004-VFI (BK)

Performance features

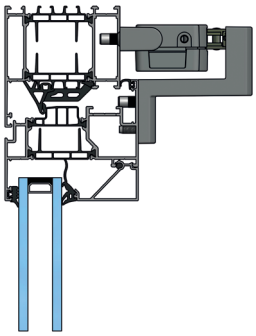
- Optimal adaptation of bracket sets to the respective profile system
- All materials required fastening materials are included in the scope of supply of the bracket sets
- Special colour as an option at the customer's request
- Application drawings suitable for window and façade manufacturers available

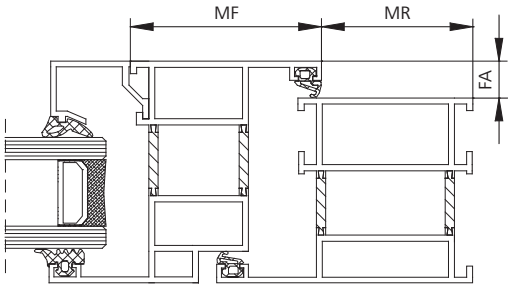
Roof window, outward opening



Profile manufacturer	Profile series	Art. No.	Bracket set
Reynaers®	CR 120	25.BAE.KS	VCD-BS014-VFO
Schüco®	AWS 57 RO	25.BAK.KS	VCD-BS010-VFO
Schüco®	Royal S 106D	25.BAF.KS	VCD-BS015-VFO
Schüco®	Royal S 47D	25.BAG.KS	VCD-BS016-VFO
Schüco®	Royal S 88D	25.BAK.KS	VCD-BS010-VFO

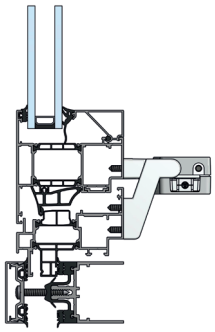
Façade windows, inward opening

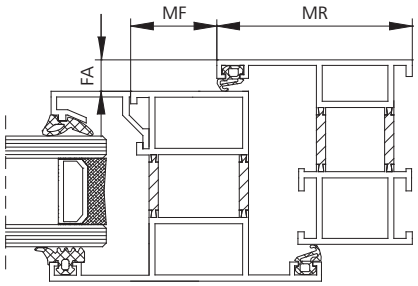




Profile manufacturer	Profile series	Art. No.	Bracket set	MF	MR	FA
Raico®	FRAME+ 75	25.CAL.KS	VCD-BS017-VSI (SR)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 75	25.CAK.KS	VCD-BS017-VSI (BK)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 75	25.CAM.KS	VCD-BS017-VSI (WH)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 75	25.CAP.KS	VCD-BS018-VFI (SR)	42 mm	40 mm	0 - 15 mm
Raico®	FRAME+ 75	25.CAN.KS	VCD-BS018-VFI (BK)	42 mm	40 mm	0 - 15 mm
Raico®	FRAME+ 75	25.CAR.KS	VCD-BS018-VFI (WH)	42 mm	40 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAL.KS	VCD-BS017-VSI (SR)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAK.KS	VCD-BS017-VSI (BK)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAM.KS	VCD-BS017-VSI (WH)	43 mm	21 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAP.KS	VCD-BS018-VFI (SR)	42 mm	40 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAN.KS	VCD-BS018-VFI (BK)	42 mm	40 mm	0 - 15 mm
Raico®	FRAME+ 90 WI	25.CAR.KS	VCD-BS018-VFI (WH)	42 mm	40 mm	0 - 15 mm

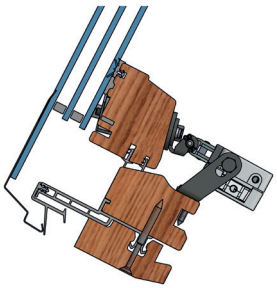
Façade windows, outward opening





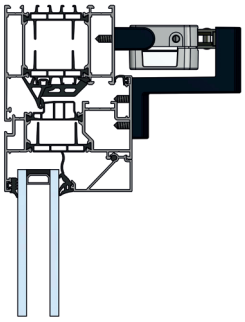
Profile manufacturer	Profile series	Art. No.	Bracket set	MF	MR	FA
Raico®	FRAME+ 75 WA	25.CAT.KS	VCD-BS019-VFO (SR)	25 mm	42 mm	0 - 15 mm
Raico®	FRAME+ 75 WA	25.CAS.KS	VCD-BS019-VFO (BK)	25 mm	42 mm	0 - 15 mm
Raico®	FRAME+ 75 WA	25.CAU.KS	VCD-BS019-VFO (WH)	25 mm	42 mm	0 - 15 mm

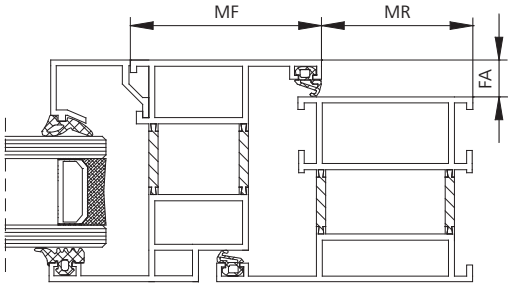
Roof windows



Profile manufacturer	Profile series	Art. No.	Bracket set
ROTO®	R6	25.BAB.KS	VCD-BS011-VFO (SR)
ROTO®	R6	25.BAC.KS	VCD-BS011-VFO (BK)
ROTO®	R6	25.BAA.KS	VCD-BS011-VFO (WH)
ROTO®	R8	25.BAB.KS	VCD-BS011-VFO (SR)
ROTO®	R8	25.BAC.KS	VCD-BS011-VFO (BK)
ROTO®	R8	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GGL	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GGL	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GGL	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GGU	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GGU	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GGU	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GHL	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GHL	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GHL	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GHU	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GHU	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GHU	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GPL	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GPL	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GPL	25.BAA.KS	VCD-BS011-VFO (WH)
VELUX®	GPU	25.BAB.KS	VCD-BS011-VFO (SR)
VELUX®	GPU	25.BAC.KS	VCD-BS011-VFO (BK)
VELUX®	GPU	25.BAA.KS	VCD-BS011-VFO (WH)

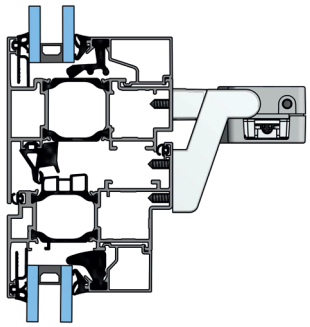
Universal bracket sets, inward opening

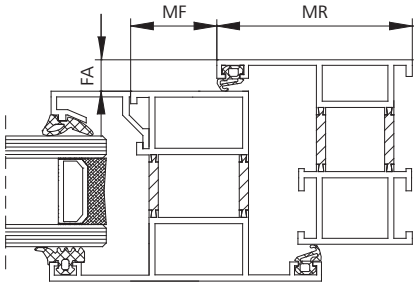




Application	Art. No.	Bracket set	MF	MR	FA
Façade window, inward opening	25.CAB.KS	VCD-BS001-VSI (SR)	43 mm	21 mm	0 - 15 mm
Façade window, inward opening	25.CAA.KS	VCD-BS001-VSI (BK)	43 mm	21 mm	0 - 15 mm
Façade window, inward opening	25.CAC.KS	VCD-BS001-VSI (WH)	43 mm	21 mm	0 - 15 mm
Façade window, inward opening	25.CAE.KS	VCD-BS004-VFI (SR)	42 mm	40 mm	0 - 15 mm
Façade window, inward opening	25.CAD.KS	VCD-BS004-VFI (BK)	42 mm	40 mm	0 - 15 mm
Façade window, inward opening	25.CAF.KS	VCD-BS004-VFI (WH)	42 mm	40 mm	0 - 15 mm

Universal bracket sets, outward opening





Application	Art. No.	Bracket set	MF	MR	FA
Façade window, outward opening	25.CAH.KS	VCD-BS007-VFO (SR)	25 mm	42 mm	0 - 15 mm
Façade window, outward opening	25.CAG.KS	VCD-BS007-VFO (BK)	25 mm	42 mm	0 - 15 mm
Façade window, outward opening	25.CAJ.KS	VCD-BS007-VFO (WH)	25 mm	42 mm	0 - 15 mm
Façade window, outward opening	25.BAD.KS	VCD-BS008-VFO	25 mm	42 mm	0 - 15 mm

Drilling template

Type	Art. No.	Bracket set	Colour
DTP 4	68.700.47	VCD-BS004-VFI	Red
DTP 5	68.700.48	VCD-BS001-VSI	Grey
DTP 6	68.700.49	VCD-BS007-VFO	White

HS “High-Speed”

In the case of SHEV, the high-speed function is used for reliably reaching the defined end position in 60 s. In daily ventilation mode, the drive runs quietly and quickly, as usual.

Function programming

Option for customised configuring of drive parameters (e.g. stroke) via software and associated service tools for drives equipped with PLP, BSY or BSY+ electronics.

BRV signal

Acknowledgement from the drive, via a control cable, to confirm that it has been completely extended or retracted. When used with the AT 41 and ERM 44 modules, this signal is sent to the central building control system, the modules themselves, or to the lock drive. The BRV signal is not isolated.

ACB (Advanced Communication Bus)

Enables direct bus communication between the controller and the drive for, for example, control with perfect positioning or drive feedback. Communication is via the open source Modbus protocol, and it enables the drive to be combined with an ACB-capable control panel or enables it to be directly connected to higher-level controllers such as a building management system.

BSY+ (synchronisation of drives)

In addition to providing the same synchronisation function as BSY, BSY+ enables different components in the window to communicate with each other. For example, the chain drives, during synchronous operation, or the window and lock drives (e.g. FRA 11 BSY+ or VLD-BSY+).

SGI signal (position reporting)

In combination with the D+H servo plug-in unit SE 622, the drives can be controlled with perfect positioning.

SKS (closing edge protection)

Drive option, which enables an anti-trap strip or presence detector to be connected directly to the drive (terminal resistor 5.6 kΩ).

Audible signal (corresponding to protection class)

AS2 corresponding to “Protection class 2” in accordance with ZVEI risk assessment through an audible warning signal in the “CLOSED” running direction. AS3 corresponding to “Protection class 3” in accordance with ZVEI risk assessment, in addition to AS2, stops the drive for 11 s with a remaining stroke of 28 mm.

End position message (OPEN / CLOSED)

Drive feedback via an integrated isolated switching contact. This happens if the chain / rack and pinion has moved completely out or in.

Mechanical adjustment

Drive option for adjusting the overall length or design (e.g.: centred chain outlet).

SBD side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).

SBU side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).