



PRODUCT FEATURES KS2

- For natural ventilation, smoke and heat exhausting systems and ferralux® NRWG (EN12101-2)
- Versions R (right) or L (left) or TWIN
- Aluminium housing anodized or optionally in RAL colors
- High-quality stainless steel sidebow roller chain, without protruding rivet heads
- Slim line body that suits concealed fitting within profiles
- Rigid drive mounting on frame without brackets
- Programmable parameters of Intelligent Control Electronics S12
 - Synchronised multi-operation and sequence control without add. devices
 - Electronic soft-start, soft-close and soft-stop at end of stroke control
 - Stroke, force, speed
 - Rebate control
- Suitable for operation with M-COM for the automatic configuration of synchronised run of multi drive systems and sequence control

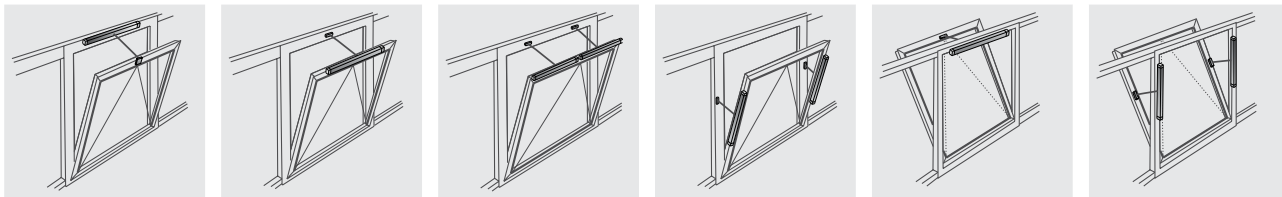
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue.

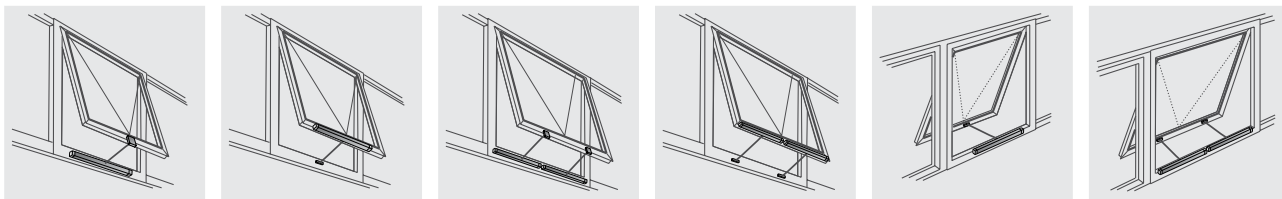
The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

FACADE

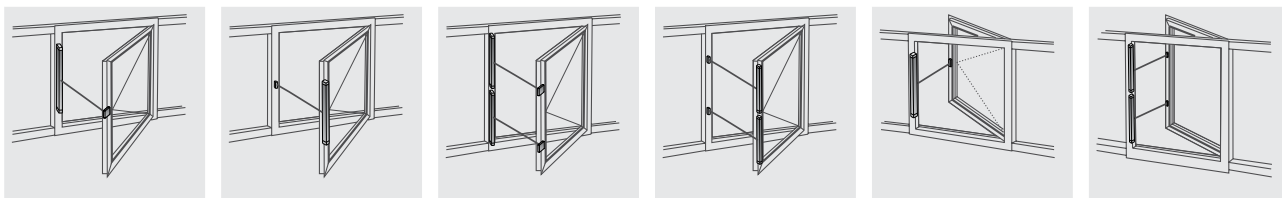
Bottom-hung



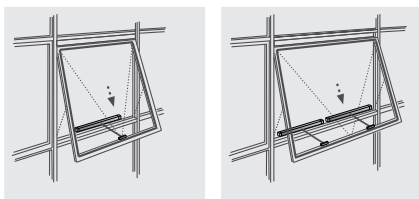
Top-hung



Side-hung



Friction hinged

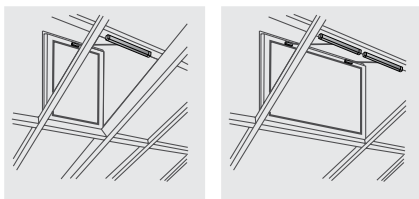


Parallel outward opening

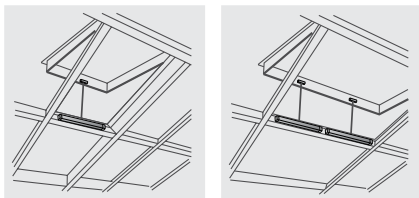


ROOF

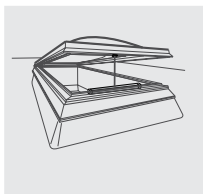
Bottom-hung

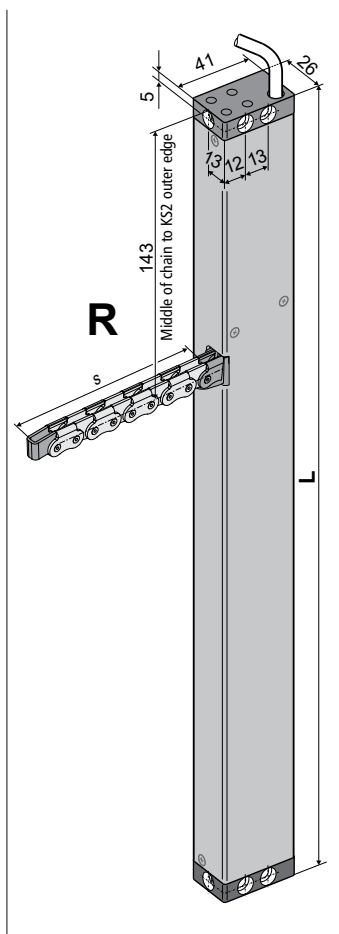


Top-hung

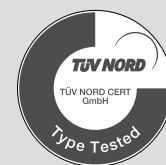


Sky light



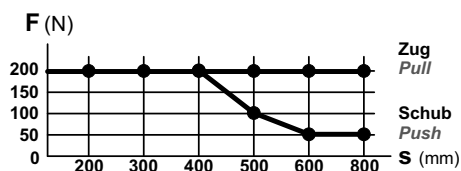


- Application: Natural ventilation as single-drive
- Internal load dependent cut-off switch S2 in OPEN / CLOSE direction



TECHNICAL DATA

U_N	Rated voltage	24 V DC (19 V ... 28 V)
I_N	Rated current	0,5 A
I_A	Cut-off current	0,7 A
P_N	Rated power	12 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_Z	Pulling force max.	200 N
F_A	Pushing force max.	



s > 600 mm only for pulling application

F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.

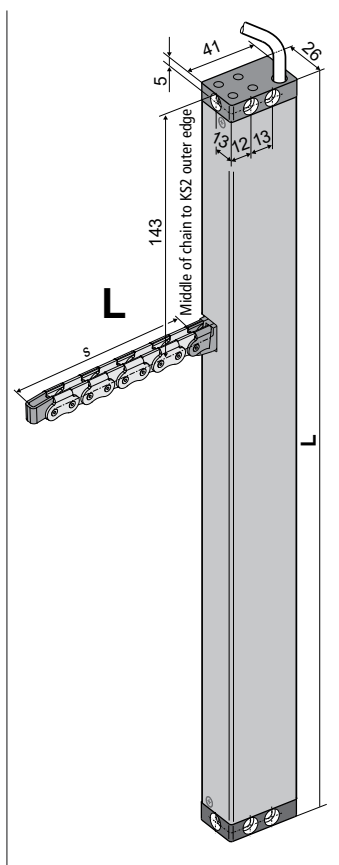
Connecting cable non-halogen, grey 3 x 0,5 mm², ~ 3 m

v Speed ∇ 10,0 mm/s $\curvearrowright$ 10,0 mm/s

s Stroke see order data

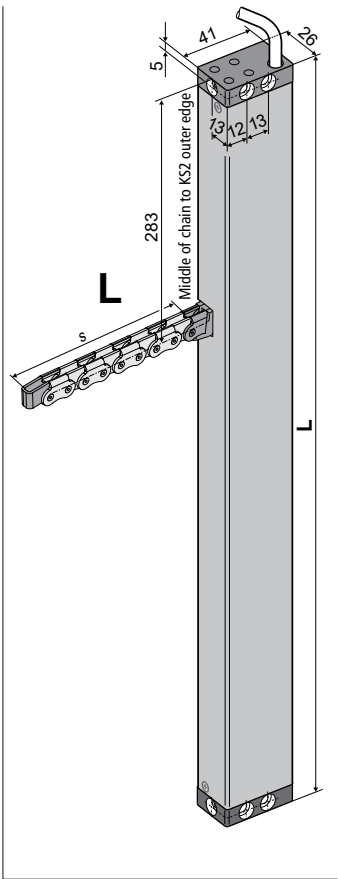
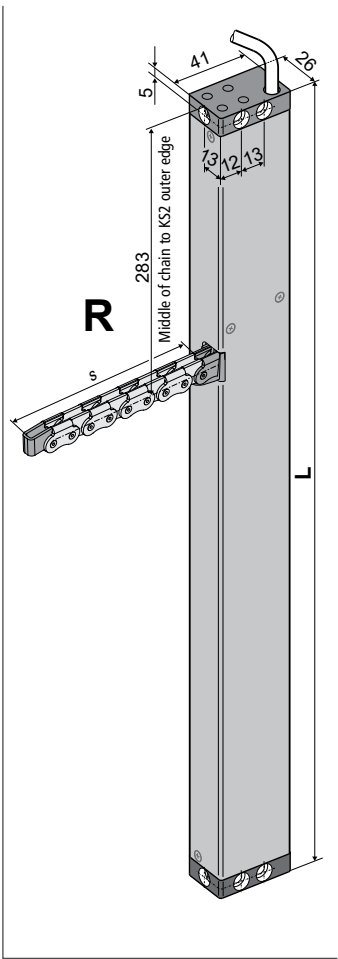
L Length see order data

Sound pressure level ≤ 70 dB (A)



ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	335	KS2 200 S2 24V R	E6/C-0	1	521120		
		KS2 200 S2 24V L	E6/C-0	1	521420		
300	380	KS2 300 S2 24V R	E6/C-0	1	521130		
		KS2 300 S2 24V L	E6/C-0	1	521430		
400	430	KS2 400 S2 24V R	E6/C-0	1	521140		
		KS2 400 S2 24V L	E6/C-0	1	521440		
500	545	KS2 500 S2 24V R	E6/C-0	1	521150		
		KS2 500 S2 24V L	E6/C-0	1	521450		
600	545	KS2 600 S2 24V R	E6/C-0	1	521160		
		KS2 600 S2 24V L	E6/C-0	1	521460		
800	625	KS2 800 S2 24V R	E6/C-0	1	521180		
		KS2 800 S2 24V L	E6/C-0	1	521480		

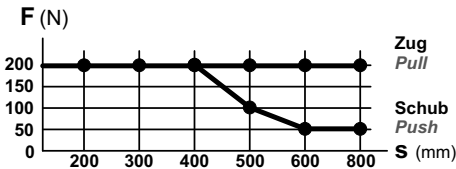
OPTIONS							
Special model				PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours							
Lump sum for coating					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
Extra length connecting cable:							
5 m – non-halogen, grey – 3 x 0,5 mm ²					501034		
10 m – non-halogen, grey – 3 x 0,5 mm ²					501036		



- Application: Natural ventilation as single-drive
- Internal load dependent cut-off switch S2 in OPEN / CLOSE direction
- Parallel connection up to 8 drives in one group

TECHNICAL DATA

U_N	Rated voltage	230 V AC (50 Hz)
I_N	Rated current	0,13 A
I_A	Cut-off current	0,2 A
P_N	Rated power	30 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60°C
F_Z	Pulling force max.	200 N
F_A	Pushing force max.	



s > 600 mm only for pulling application

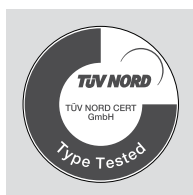
F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.
	Connecting cable	non-halogen, grey 6 x 0,75 mm ² , ~ 3 m
v	Speed	10,0 mm/s 10,0 mm/s
s	Stroke	see order data
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

ORDER DATA

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	475	KS2 200 S2 230V R	E6/C-0	1	494920		
		KS2 200 S2 230V L	E6/C-0	1	494720		
300	520	KS2 300 S2 230V R	E6/C-0	1	494930		
		KS2 300 S2 230V L	E6/C-0	1	494730		
400	570	KS2 400 S2 230V R	E6/C-0	1	494940		
		KS2 400 S2 230V L	E6/C-0	1	494740		
500	685	KS2 500 S2 230V R	E6/C-0	1	494950		
		KS2 500 S2 230V L	E6/C-0	1	494750		
600	685	KS2 600 S2 230V R	E6/C-0	1	494960		
		KS2 600 S2 230V L	E6/C-0	1	494760		
800	765	KS2 800 S2 230V R	E6/C-0	1	494980		
		KS2 800 S2 230V L	E6/C-0	1	494780		

OPTIONS

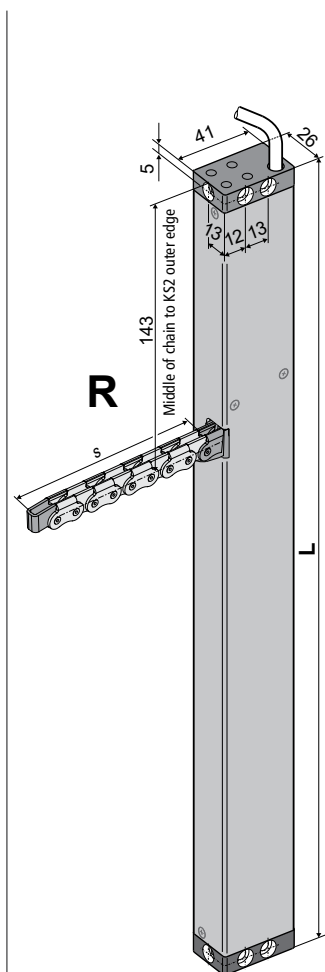
Special model	PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours				
Lump sum for coating		516030		
Specify at order stage:	1 – 20	516004		
	21 – 50	516004		
	51 – 100	516004		
	from 101	516004		
Extra length connecting cable:				
5 m – non-halogen, grey – 6 x 0,75 mm ²		501164		
10 m – non-halogen, grey – 6 x 0,75 mm ²		501166		



- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Z-Version: Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24 V, 500 mA)

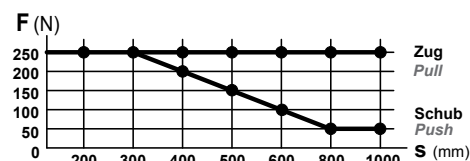
Options

- Programmable special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



TECHNICAL DATA

U_N	Rated voltage	24 V DC (19 V ... 28 V)
I_N	Rated current	0,7 A
I_A	Cut-off current	1,0 A
P_N	Rated power	17 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_Z	Pulling force max.	250 N
F_A	Pushing force max.	

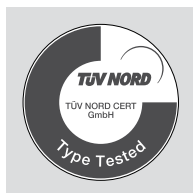


s > 600 mm only for pulling application

F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.
	Connecting cable	non-halogen, grey 3 x 0,5 mm ² , ~ 3 m non-halogen, grey 5 x 0,5 mm ² , ~ 3 m (Z version)
v	Speed	Factory settings: $s \leq 400$ 8,0 mm/s 8,0 mm/s $s > 400 - 600$ 12,0 mm/s 8,0 mm/s $s > 600$ 13,5 mm/s 8,0 mm/s Adjustment range: 5 - 14 mm/s
s	Stroke	Factory settings: see order data Adjustment range: 5 - 800 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	335	KS2 200 S12 24V R	E6/C-0	1	521620		
		KS2 200 S12 24V Z R	E6/C-0	1	521623		
300	380	KS2 300 S12 24V R	E6/C-0	1	521630		
		KS2 300 S12 24V Z R	E6/C-0	1	521633		
400	430	KS2 400 S12 24V R	E6/C-0	1	521640		
		KS2 400 S12 24V Z R	E6/C-0	1	521643		
500	545	KS2 500 S12 24V R	E6/C-0	1	521650		
		KS2 500 S12 24V Z R	E6/C-0	1	521653		
600	545	KS2 600 S12 24V R	E6/C-0	1	521660		
		KS2 600 S12 24V Z R	E6/C-0	1	521663		
800	625	KS2 800 S12 24V R	E6/C-0	1	521680		
		KS2 800 S12 24V Z R	E6/C-0	1	521683		

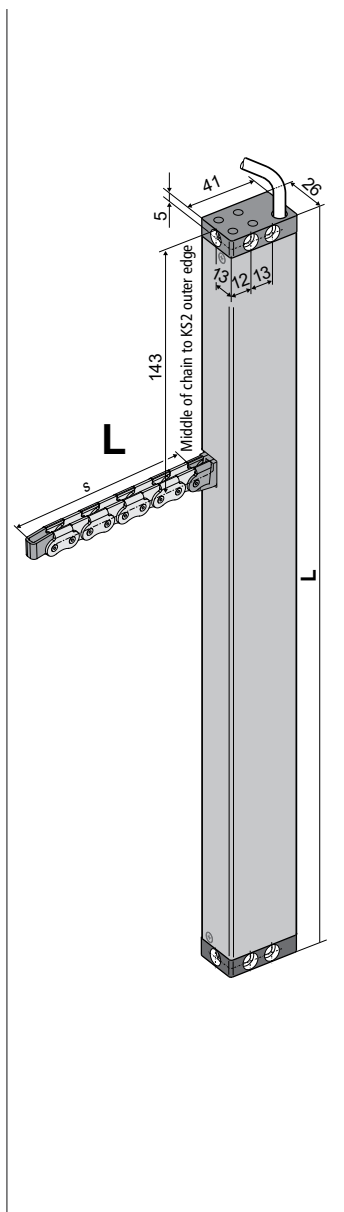
OPTIONS							
Special model				PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours							
Lump sum for coating					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
Extra length connecting cable:							
5 m – non-halogen, grey – 3 x 0,5 mm ²					501034		
10 m – non-halogen, grey – 3 x 0,5 mm ²					501036		
5 m – non-halogen, grey – 5 x 0,5 mm ²					501054		
10 m – non-halogen, grey – 5 x 0,5 mm ²					501056		
Microprocessor programming S12							
Electronic stroke reduction 24V S12					524190		
Programming drives 24V / 230V S12					524180		
Optional accessories				PU/pcs.	Part.-No.		
M-COM Configuration module for synchronised multi-drive systems				1	524177		



- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Z-Version: Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24 V, 500 mA)

Options

- Programmable special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



TECHNICAL DATA

U_N Rated voltage 24 V DC (19 V ... 28 V)

I_N Rated current 0,7 A

I_A Cut-off current 1,0 A

P_N Rated power 17 W

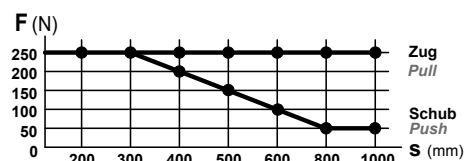
DC Duty cycle 5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)

Protection rating IP 32

Ambient temperature range range -5 °C ... +60 °C

F_Z Pulling force max. 250 N

F_A Pushing force max.



s > 600 mm only for pulling application

F_H Pullout force 1.800 N (fastening depended)

Chain

Stainless steel, without protruding rivet heads.
Simple connection to casement brackets.
Small bending radii allow maximum opening angles of small windows.

Connecting cable

non-halogen, grey 3 x 0,5 mm², ~ 3 m
non-halogen, grey 5 x 0,5 mm², ~ 3 m (Z version)

v Speed

Factory settings:

s ≤ 400 8,0 mm/s 8,0 mm/s
s > 400 – 600 12,0 mm/s 8,0 mm/s
s > 600 13,5 mm/s 8,0 mm/s
Adjustment range: 5 - 14 mm/s

s Stroke Factory settings: see order data
Adjustment range: 5 – 800 mm

L Length see order data

Sound pressure level ≤ 70 dB (A)

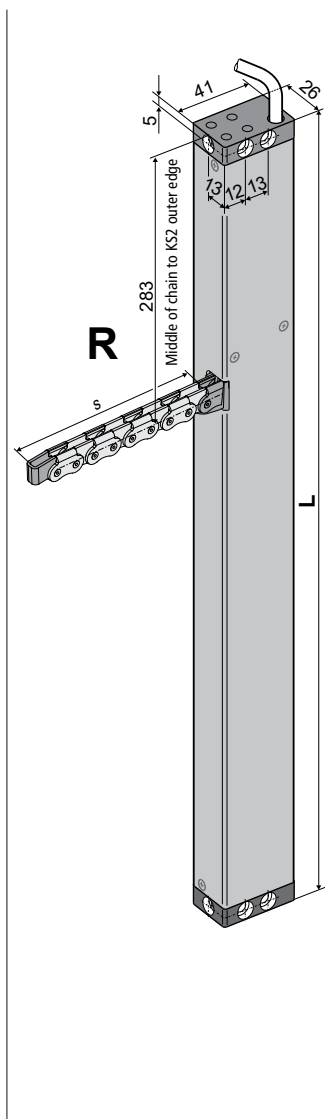
ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	335	KS2 200 S12 24V L	E6/C-0	1	521720		
		KS2 200 S12 24V Z L	E6/C-0	1	521723		
300	380	KS2 300 S12 24V L	E6/C-0	1	521730		
		KS2 300 S12 24V Z L	E6/C-0	1	521733		
400	430	KS2 400 S12 24V L	E6/C-0	1	521740		
		KS2 400 S12 24V Z L	E6/C-0	1	521743		
500	545	KS2 500 S12 24V L	E6/C-0	1	521750		
		KS2 500 S12 24V Z L	E6/C-0	1	521753		
600	545	KS2 600 S12 24V L	E6/C-0	1	521760		
		KS2 600 S12 24V Z L	E6/C-0	1	521763		
800	625	KS2 800 S12 24V L	E6/C-0	1	521780		
		KS2 800 S12 24V Z L	E6/C-0	1	521783		

OPTIONS				
Special model	PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours				
Lump sum for coating		516030		
Specify at order stage:	1 – 20	516004		
	21 – 50	516004		
	51 – 100	516004		
	from 101	516004		
Extra length connecting cable:				
5 m – non-halogen, grey – 3 x 0,5 mm²		501034		
10 m – non-halogen, grey – 3 x 0,5 mm²		501036		
5 m – non-halogen, grey – 5 x 0,5 mm²		501054		
10 m – non-halogen, grey – 5 x 0,5 mm²		501056		
Microprocessor programming S12				
Electronic stroke reduction 24V S12		524190		
Programming drives 24V / 230V S12		524180		
Optional accessories	PU/pcs.	Part.-No.		
M-COM Configuration module for synchronised multi-drive systems	1	524177		

- Application: natural ventilation
- Internal Intelligent Control Electronics S12
- Parallel connection up to 8 drives in one group
- Z-Version: Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24 V, 500 mA)

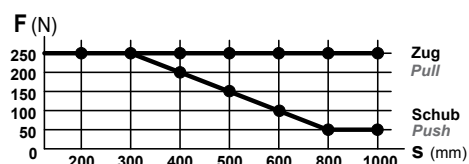
Options

- Programmable synchronised run (max. 4 drives) and special functions
(Attention: not possible with Z-version)



TECHNICAL DATA

U_N	Rated voltage	230 V AC (50 Hz)
I_N	Rated current	0,13 A
I_A	Cut-off current	0,2 A
P_N	Rated power	30 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_Z	Pulling force max.	250 N
F_A	Pushing force max.	



s > 600 mm only for pulling application

F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.
	Connecting cable	non-halogen, grey 6 x 0,75 mm ² , ~ 3 m
v	Speed	Factory settings: $\curvearrowright$ 8,0 mm/s $\curvearrowleft$ 8,0 mm/s Adjustment range: 5 - 14 mm/s
s	Stroke	Factory settings: see order data Adjustment range: 5 – 800 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

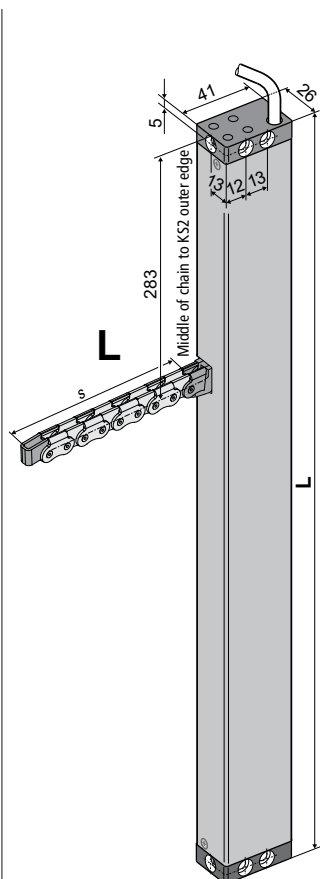
ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	475	KS2 200 S12 230V R	E6/C-0	1	494020		
		KS2 200 S12 230V Z R	E6/C-0	1	494023		
300	520	KS2 300 S12 230V R	E6/C-0	1	494030		
		KS2 300 S12 230V Z R	E6/C-0	1	494033		
400	570	KS2 400 S12 230V R	E6/C-0	1	494040		
		KS2 400 S12 230V Z R	E6/C-0	1	494043		
500	685	KS2 500 S12 230V R	E6/C-0	1	494050		
		KS2 500 S12 230V Z R	E6/C-0	1	494053		
600	685	KS2 600 S12 230V R	E6/C-0	1	494060		
		KS2 600 S12 230V Z R	E6/C-0	1	494063		
800	765	KS2 800 S12 230V R	E6/C-0	1	494080		
		KS2 800 S12 230V Z R	E6/C-0	1	494083		

OPTIONS							
Special model				PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours							
Lump sum for coating					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
Extra length connecting cable:							
5 m – non-halogen, grey – 6 x 0,75 mm ²					501164		
10 m – non-halogen, grey – 6 x 0,75 mm ²					501166		
Microprocessor programming S12							
Programming synchronised multi-drive systems 230V S12 (each drive)					495588		
Electronic stroke reduction 230V S12					495590		
Programming drives 24V / 230V S12					524180		

- Application: natural ventilation
- Internal Intelligent Control Electronics S12
- Parallel connection up to 8 drives in one group
- Z-Version: Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24 V, 500 mA)

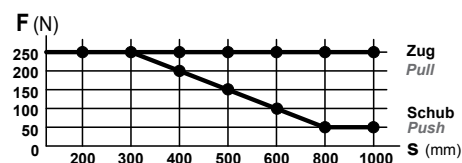
Options

- Programmable synchronised run (max. 4 drives) and special functions
(Attention: not possible with Z-version)



TECHNICAL DATA

U_N	Rated voltage	230 V AC (50 Hz)
I_N	Rated current	0,13 A
I_A	Cut-off current	0,2 A
P_N	Rated power	30 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_Z	Pulling force max.	250 N
F_A	Pushing force max.	

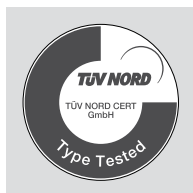


s > 600 mm only for pulling application

F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.
	Connecting cable	non-halogen, grey 6 x 0,75 mm ² , ~ 3 m
v	Speed	Factory settings: $\curvearrowright$ 8,0 mm/s $\curvearrowleft$ 8,0 mm/s Adjustment range: 5 - 14 mm/s
s	Stroke	Factory settings: see order data Adjustment range: 5 – 800 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	475	KS2 200 S12 230V L	E6/C-0	1	494120		
		KS2 200 S12 230V Z L	E6/C-0	1	494123		
300	520	KS2 300 S12 230V L	E6/C-0	1	494130		
		KS2 300 S12 230V Z L	E6/C-0	1	494133		
400	570	KS2 400 S12 230V L	E6/C-0	1	494140		
		KS2 400 S12 230V Z L	E6/C-0	1	494143		
500	685	KS2 500 S12 230V L	E6/C-0	1	494150		
		KS2 500 S12 230V Z L	E6/C-0	1	494153		
600	685	KS2 600 S12 230V L	E6/C-0	1	494160		
		KS2 600 S12 230V Z L	E6/C-0	1	494163		
800	765	KS2 800 S12 230V L	E6/C-0	1	494180		
		KS2 800 S12 230V Z L	E6/C-0	1	494183		

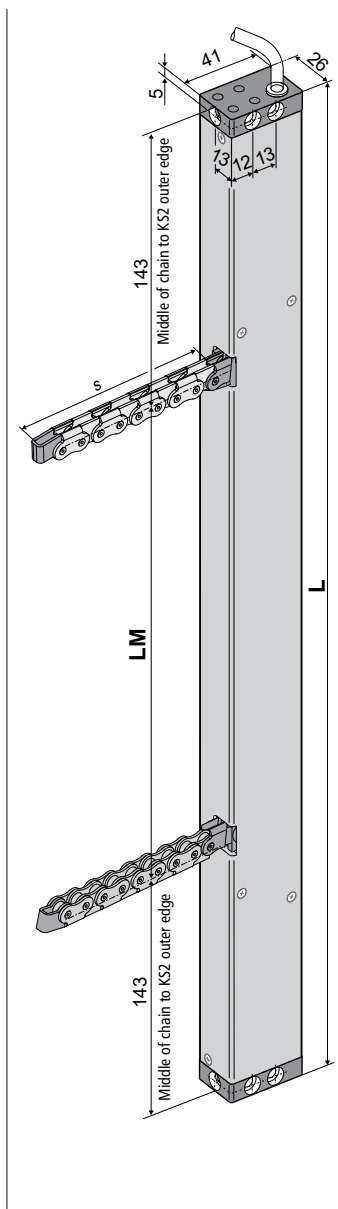
OPTIONS							
Special model				PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours							
Lump sum for coating					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
Extra length connecting cable:							
5 m – non-halogen, grey – 6 x 0,75 mm ²					501164		
10 m – non-halogen, grey – 6 x 0,75 mm ²					501166		
Microprocessor programming S12							
Programming synchronised multi-drive systems 230V S12 (each drive)					495588		
Electronic stroke reduction 230V S12					495590		
Programming drives 24V / 230V S12					524180		



- Application: natural ventilation, RWA
- Internal Intelligent Control Electronics S12
- Z-Version: Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24 V, 500 mA)

Options

- Programmable special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



TECHNICAL DATA

U_N Rated voltage 24 V DC (19 V ... 28 V)

I_N Rated current 1,4 A

I_A Cut-off current 2,0 A

P_N Rated power 34 W

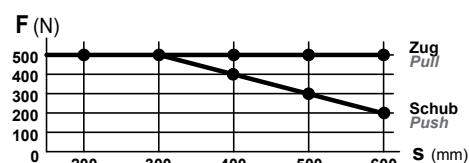
DC Duty cycle 5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)

Protection rating IP 32

 Ambient temperature range -5 °C ... +60 °C

F_Z Pulling force max. 500 N

F_A Pushing force max.



F_H Pullout force 2 x 1.800 N (fastening depended)

Chain Stainless steel, without protruding rivet heads.
Simple connection to casement brackets.
Small bending radii allow maximum opening angles of small windows.

Connecting cable non-halogen, grey 3 x 0,5 mm², ~ 3 m
non-halogen, grey 5 x 0,5 mm², ~ 3 m (Z version)

v Speed Factory settings:
 $s \leq 400$  8,0 mm/s  8,0 mm/s
 $s > 400 - 600$  12,0 mm/s  8,0 mm/s
 Adjustment range: 5 - 12 mm/s

s Stroke Factory settings: see order data
Adjustment range: 5 - 600 mm

L Length see order data

LM Distance in between chains see order data

Sound pressure level ≤ 70 dB (A)

ORDER DATA

s [mm]	L [mm]	LM [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	640	354	KS2 TWIN 200 S12 24V	E6/C-0	1	521820		
			KS2 TWIN 200 S12 24V Z	E6/C-0	1	521823		
400	830	544	KS2 TWIN 400 S12 24V	E6/C-0	1	521840		
			KS2 TWIN 400 S12 24V Z	E6/C-0	1	521843		
500	1060	774	KS2 TWIN 500 S12 24V	E6/C-0	1	521850		
			KS2 TWIN 500 S12 24V Z	E6/C-0	1	521853		
600	1060	774	KS2 TWIN 600 S12 24V	E6/C-0	1	521860		
			KS2 TWIN 600 S12 24V Z	E6/C-0	1	521863		

OPTIONS

Special model	PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours				
Lump sum for coating		516030		
Specify at order stage:	1 – 20	516004		
	21 – 50	516004		
	51 – 100	516004		
	from 101	516004		
Extra length connecting cable:				
5 m – non-halogen, grey – 3 x 0,5 mm ²		501034		
10 m – non-halogen, grey – 3 x 0,5 mm ²		501036		
5 m – non-halogen, grey – 5 x 0,5 mm ²		501054		
10 m – non-halogen, grey – 5 x 0,5 mm ²		501056		
Microprocessor programming S12				
Electronic stroke reduction 24V S12		524190		
Programming drives 24V / 230V S12		524180		
Optional accessories	PU/pcs.	Part.-No.		
M-COM Configuration module for synchronised multi-drive systems	1	524177		



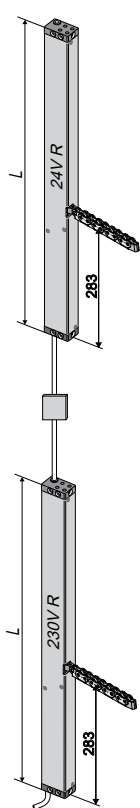
- Application: natural ventilation
- Factory-configured set includes:
 - Master: KS2 xxx S12 230V AC R / L with voltage output 24V DC
 - Slave: KS2 xxx S12 24V DC R / L with connection cable on the motor side
 - KS2 xxx S12 24V DC L-K with connection cable on the chain side

- Parallel connection up to 8 sets of drives in one group
- Junction box to be site supplied

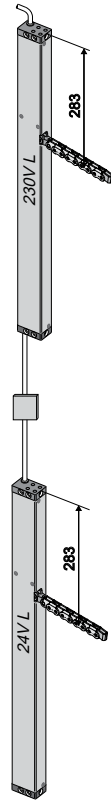
Options

- Programmable special functions and sequence control with locking drives (S3 / S12)
- Screw terminal connections in drive housing upon request

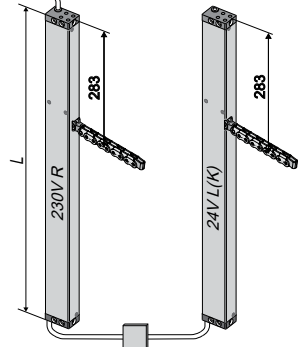
Set A



Set B

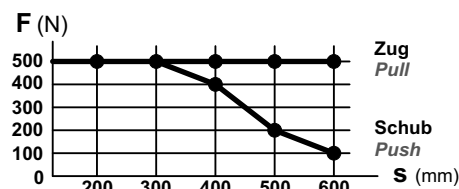


Set C



TECHNICAL DATA

U_N	Rated voltage	230 V AC (50 Hz)
I_N	Rated current	0,15 A
I_A	Cut-off current	0,2 A
P_N	Rated power	35 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_Z	Pulling force max.	2 x 250 N
F_A	Pushing force max.	



s > 600 mm only for pulling application

F_H	Pullout force	1.800 N (fastening depended)
	Chain	Stainless steel, without protruding rivet heads. Simple connection to casement brackets. Small bending radii allow maximum opening angles of small windows.

	Connecting cable	Master: non-halogen, grey 6 x 0,75 mm ² , ~ 3 m 3 x 0,5 mm ² , ~ 3 m Slave: non-halogen, grey 3 x 0,5 mm ² , ~ 3 m
--	------------------	---

v	Speed	Factory settings: 8,0 mm/s 8,0 mm/s Adjustment range: 5 - 14 mm/s
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s	Stroke	Factory settings: see order data Adjustment range: 5 - 800 mm
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L	Length	see order data
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	Sound pressure level	≤ 70 dB (A)
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ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
200	475	KS2 200 S12 230V Set A (R/R)	E6/C-0	1	494220		
		KS2 200 S12 230V Set B (L/L)	E6/C-0	1	494320		
		KS2 200 S12 230V Set C (R/L-K)	E6/C-0	1	494420		
300	520	KS2 300 S12 230V Set A (R/R)	E6/C-0	1	494230		
		KS2 300 S12 230V Set B (L/L)	E6/C-0	1	494330		
		KS2 300 S12 S 230V et C (R/L-K)	E6/C-0	1	494430		
400	570	KS2 400 S12 230V Set A (R/R)	E6/C-0	1	494240		
		KS2 400 S12 230V Set B (L/L)	E6/C-0	1	494340		
		KS2 400 S12 230V Set C (R/L-K)	E6/C-0	1	494440		
500	685	KS2 500 S12 230V Set A (R/R)	E6/C-0	1	494250		
		KS2 500 S12 230V Set B (L/L)	E6/C-0	1	494350		
		KS2 500 S12 230V Set C (R/L-K)	E6/C-0	1	494450		
600	685	KS2 600 S12 230V Set A (R/R)	E6/C-0	1	494260		
		KS2 600 S12 230V Set B (L/L)	E6/C-0	1	494360		
		KS2 600 S12 230V Set C (R/L-K)	E6/C-0	1	494460		
800	765	KS2 800 S12 230V Set A (R/R)	E6/C-0	1	494280		
		KS2 800 S12 230V Set B (L/L)	E6/C-0	1	494380		
		KS2 800 S12 230V Set C (R/L-K)	E6/C-0	1	494480		

OPTIONS							
Special model				PU/pcs.	Part.-No.		
Drive housing painted/powder coated in other RAL colours							
Lump sum for coating					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
Extra length connecting cable:							
5 m – non-halogen, grey – 6 x 0,75 mm ²					501164		
10 m – non-halogen, grey – 6 x 0,75 mm ²					501166		
5 m – non-halogen, grey – 3 x 0,5 mm ²					501034		
10 m – non-halogen, grey – 3 x 0,5 mm ²					501036		
5 m – non-halogen, grey – 5 x 0,5 mm ²					501054		
10 m – non-halogen, grey – 5 x 0,5 mm ²					501056		
Microprocessor programming S12							
Programming synchronised multi-drive systems 230V S12 (each drive)					495588		

OVERVIEW OF BRACKETS									
Typical application				1	2	3	4	5	6
Frame bracket				K93, K94	K129, K130	K96, K96-1	No	K105A, K105B, K105S, K106	K128
Casement bracket				F41, F35, F37, F17 (F21 with K130)		F95, F42	F95, F42	F18, F19, F20, F22	F21
Space requirement	min.	[mm]		16 – 30	25 – 30	38	30	Note profile depth	Schüco AWS 57RO
Overlap thickness *1		[mm]		0 – 21	0 – 21	0 – 21	0 – 21		
Opening angle *2	max.	[DEG]		35	45	60	40	60	45
Casement weight *3	max.	[Kg]		70	60	50	70	70	70
Window material	Alu			●	●	●	●	●	●
	Wood			●	●	●	●	■	
	PVC			●	●	●	●		
Type of window and mounting	Bottom hung	inward	HSK	FM	●	●			
				RM			●		
			NSK	FM	●	●			
				RM			●		
		outward	HSK	RM	●	●			●
				PR					
			NSK	RM	●	●			
				PR					
	Top hung	inward	HSK	FM	■	■			
				RM			■	■	
			NSK	FM	■	■			
				RM			■	■	
		outward	HSK	RM	■	●			■
				PR					
			NSK	RM	■	■			
				PR					
	Side hung	inward	HSK	FM	●	●			
				RM			●	●	
			NSK	FM					
				RM					
	Roof	outward	HSK	RM	■	■			■
				PR					
			NSK	RM					
				PR					
	PAF	outward		RM	●	●		●	
	Concealed							●	
FAB *4		Solo	[mm]	600 – 1200					
		Sync2	[mm]	1000 – 2500					
FAH *4		Solo	[mm]	250 – 1500					
		Sync2	[mm]	250 – 2500					

LEGEND

● suitable ■ not recommended

*1 Window sizes and opening angles may be different.

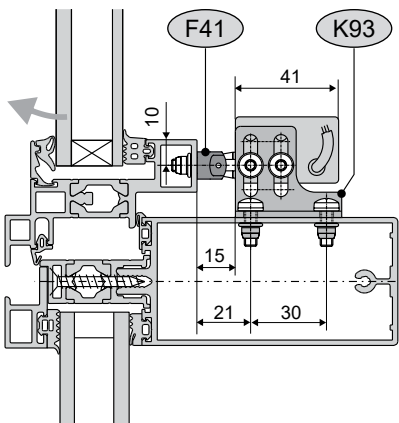
*2 Sample values of the opening angle evaluated on the basis of FAB/FAH for inward opening windows with drives mounted at the main closing edge. For any other window heights, for outward opening windows and for windows with drives mounted at the side edges the opening angle will vary.

*3 Please respect the individual geometry of the different windows. The listed max. casement weight refers to a single drive on button hung window with a max. opening angle.

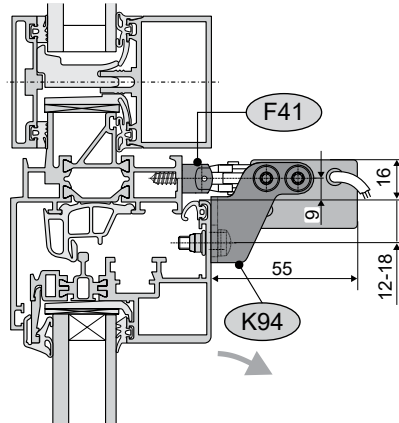
*4 Sample value of the casement dimensions for corner joints of 110 mm. The actual casement dimensions depend on length of the corner joints, profile dimensions, stroke and position of the drives.

The values of FAB/FAH are to be used analogue for side hung windows.

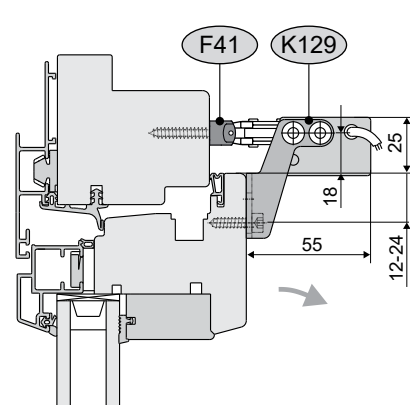
TYPICAL APPLICATIONS

1 PR, top hung
outward opening

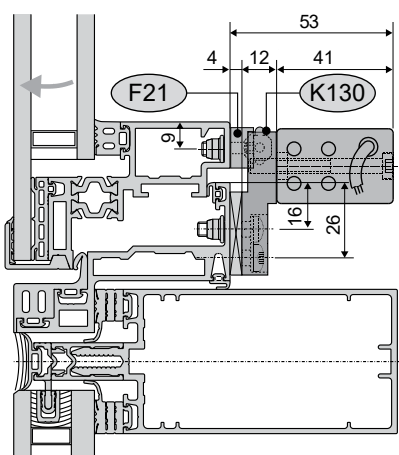
View on aluminium window

1 FM, bottom hung
inward opening

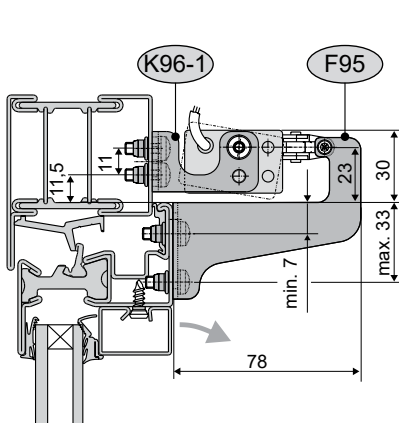
View on aluminium window

2 FM, bottom hung
inward opening

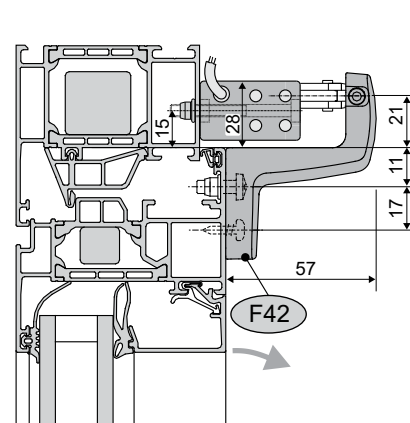
View on aluminium-wood window

2 RM, bottom hung
outward opening

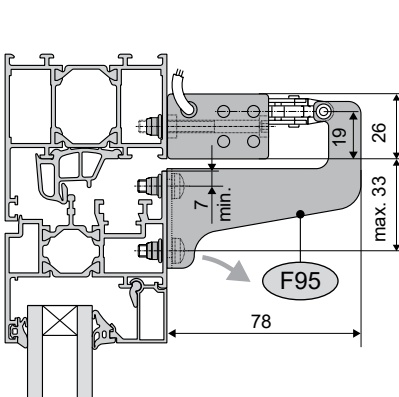
View on aluminium window

3 RM, bottom hung
inward opening

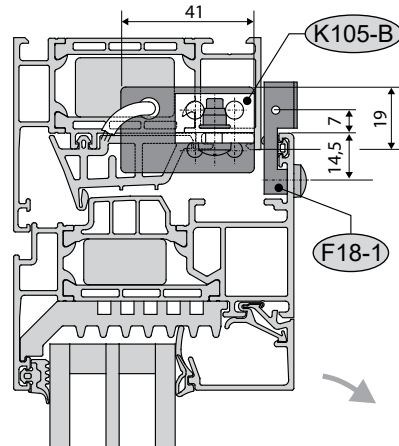
View on steel window

4 RM, bottom hung
inward opening

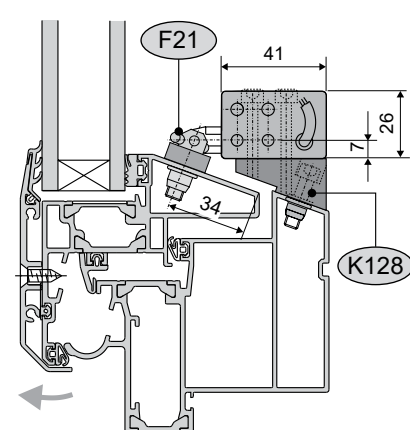
View on aluminium window

4 RM, bottom hung
inward opening

View on aluminium window

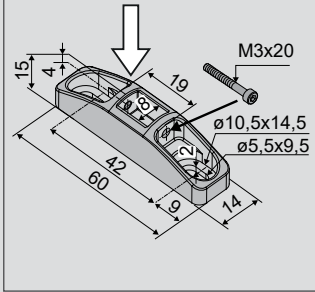
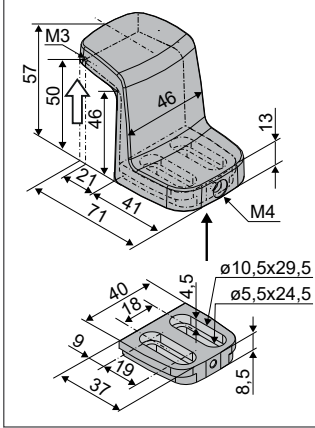
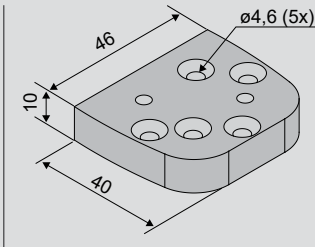
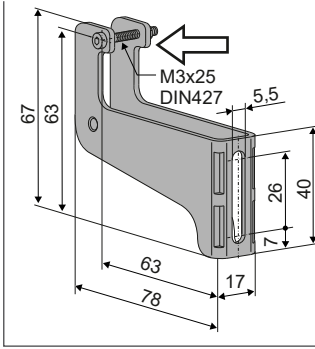
5 Concealed, bottom hung
inward opening

View on aluminium window

6 RM, top hung
outward opening

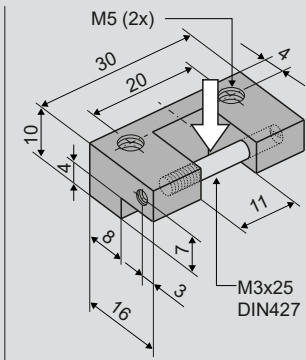
View on aluminium window (Facade)

CASEMENT BRACKETS

F41 	Application Surface mounting on the casement profiles / window frame profiles of inward / outward opening windows, for surface mounted drives KS2 Chain fixing in direction of the arrow	Part.-No. 151440 Material / Finish Cast aluminum, bright chrome Feature / Equipment 1x screw M3x20 1x Drilling template Part.-No. 151445 Material / Finish Cast aluminum, RAL 9006	
F42 	Application Surface mounting on the casement profiles of inward opening windows, for surface mounted drives KS2 Chain fixing in direction of the arrow	Part.-No. 151441 Material / Finish Cast aluminum, bright chrome Feature / Equipment 1x baseplate 1x countersunk screw M4x10 1x screw M3x25 1x Drilling template Part.-No. 151446 Material / Finish Cast aluminum, RAL 9006	
F42-Sup-port 	Application F42-Support as a compensating plate when mounting on the wooden windows and plastic windows t = 10 mm	Part.-No. 523961 Material / Finish aluminum (E6/C-0)	
F95 	Application Surface mounting on the casement profiles of inward opening windows, for surface mounted drives KS2 with K96-1 Chain fixing in direction of the arrow	Part.-No. 523972 Material/Finish Stainless steel Feature/Equipment 1x screw M3x25, 1x spring pin M3,	

CASEMENT BRACKETS

F17

**Application**

Concealed mounting inside in-/outward opening face- or flush-fitted casements, fixing inside rebate below the secondary gasket with screws removable from outside, for inside the window frame profiles concealed mounted drives **KS2** with **K105**

Chain fixing in direction of the arrow

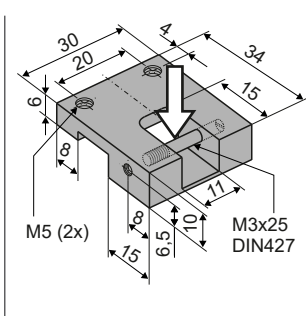
Part.-No. 151417**Material/Finish**

aluminium
(natural anodized)

Feature/Equipment

1x shaft screw M3x25,
2x rounded head screw M5x10

F18

**Application**

Partially concealed mounting on inner profile side of inward opening face-fitted casements, fixing below the secondary gasket with screws removable from outside, for inside the window frame profiles concealed mounted drives **KS2** with **K105**

Chain fixing in direction of the arrow

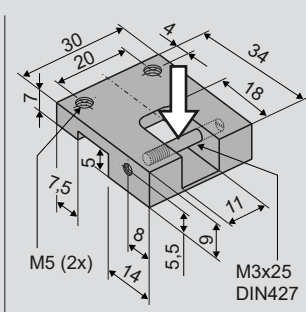
Part.-No. 151418**Material/Finish**

aluminium
(natural anodized)

Feature/Equipment

1x shaft screw M3x25,
2x rounded head screw M5x10

F18-1

**Application**

Surface mounting on inward opening face-fitted casements, for inside the window frame profiles concealed mounted drives **KS2** with **K105**

Chain fixing in direction of the arrow

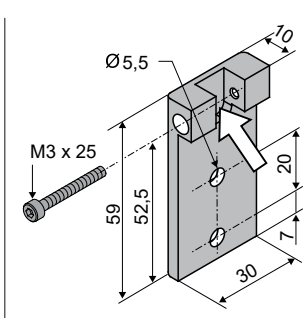
Part.-No. 151428**Material/Finish**

aluminium
(natural anodized)

Feature/Equipment

1x shaft screw M3x25
2x rounded head screw M5x10

F19

**Application**

Surface mounting on inward opening face-fitted casements, for inside the window frame profiles concealed mounted drives **KS2** with **K105**

Chain fixing in direction of the arrow

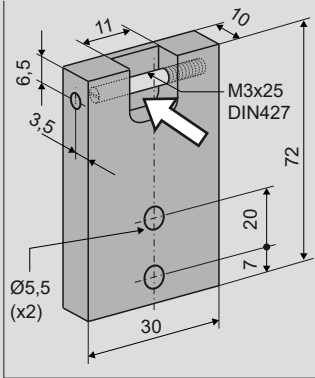
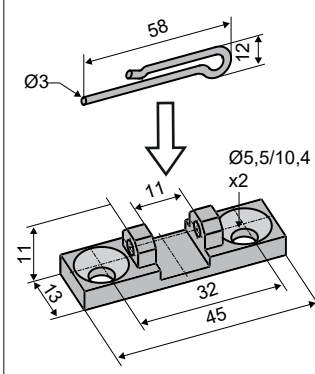
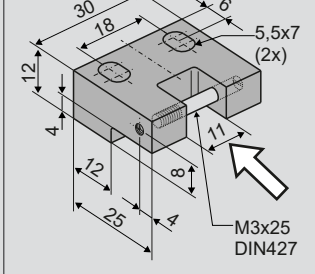
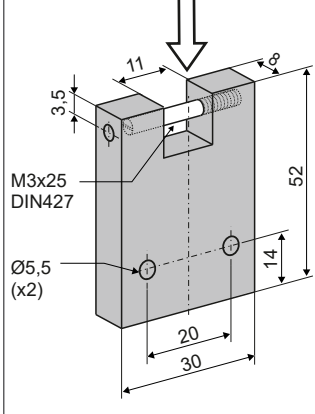
Part.-No. 151419**Material/Finish**

aluminium
(natural anodized)

Feature/Equipment

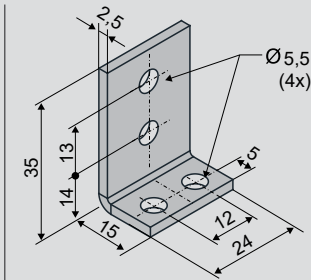
1x screw M3x25

CASEMENT BRACKETS

F20 	Application Surface mounting on inward opening face-fitted casements, for inside the window frame profiles concealed mounted drives KS2 with K105 Chain fixing in direction of the arrow	Part.-No. 151420 Material/Finish aluminium (natural anodized) Feature/Equipment 1x shaft screw M3x25, 2x rounded head screw M5x20	
F21 	Application Surface mounting on the casement/window frame profiles on the main/side closing edge of in-/outward opening windows, for surface mounted drives KS2 with K128, K130 Chain fixing in direction of the arrow	Part.-No. 151421 Material/Finish aluminium (natural anodized) Feature/Equipment 1x spring pin Ø 3 mm	
Optional accessories			
F35 	Application Surface mounting on the horizontal side of deep casement profiles of outward opening (friction hinged) windows, for surface mounted drives KS2 with K93, K94, K129, K130 Chain fixing in direction of the arrow	Part.-No. 151425 Material/Finish aluminium (natural anodized) Feature/Equipment 1x shaft screw M3x25	
F37 	Application Surface mounting on the horizontal side of deep casement profiles of outward opening (friction hinged) windows, for surface mounted drives KS2 with K93, K94, K129, K130 Chain fixing in direction of the arrow	Part.-No. 151424 Material/Finish aluminium (natural anodized) Feature/Equipment 1x shaft screw M3x25	

FRAME BRACKETS

K105-B



Application

Concealed mounting inside the window frame profiles of in-/outward opening windows, for rigid fixing of concealed drives **KS2** with **F17, F18, F19, F20**

Part.-No. 523977

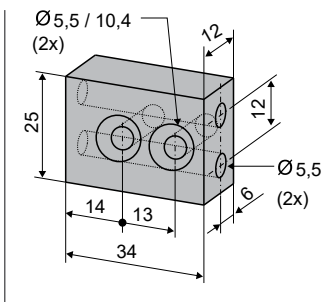
Material/Finish

Stainless steel

Feature/Equipment

2x angle brackets,
4x rounded head screw M5x10,
4x washer A 5,3

K105-A



Application

Concealed mounting inside the window frame profiles of in-/outward opening windows, for rigid fixing of concealed drives **KS2** with casement brackets **F17**, (FAH min. 700 mm)

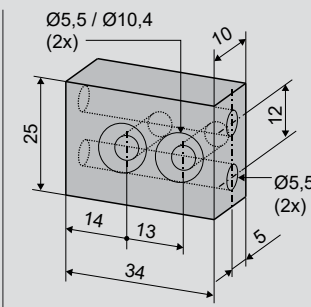
Part.-No. 523975

Material/Finish

aluminium
(natural anodized)

Feature/Equipment

2x angle brackets

K105-A
-W77

Application

Concealed mounting inside the window frame profiles of in-/outward opening windows, for rigid fixing of concealed drives **KS2** with casement brackets **F18-1**, (FAH min. 400 mm)

Part.-No. 523965

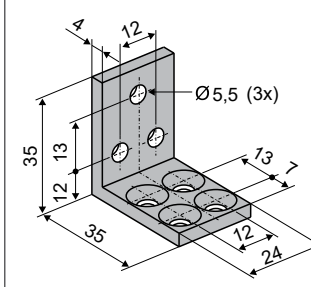
Material/Finish

aluminium
(natural anodized)

Feature/Equipment

2x angle brackets

K106



Application

Concealed mounting inside the window frame profiles of in-/outward opening windows, for rigid fixing of concealed drives **KS2** with **F19** (FAH min. 700 mm), **F20** (FAH min 500 mm)

Part.-No. 523976

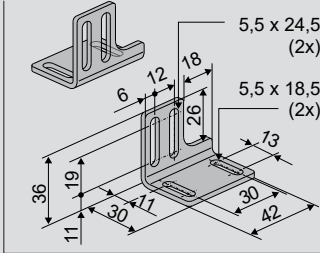
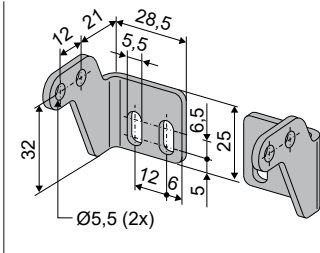
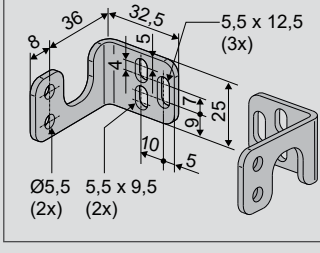
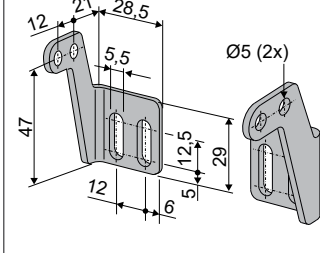
Material/Finish

aluminium
(natural anodized)

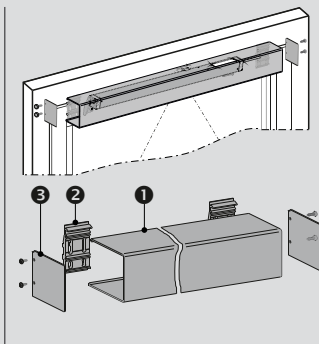
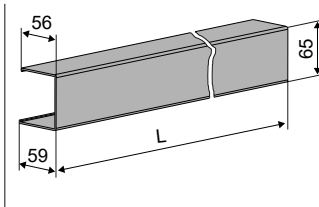
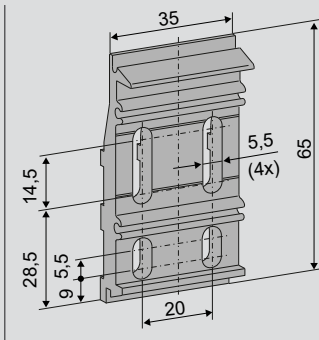
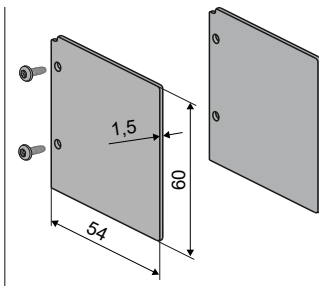
Feature/Equipment

2x angle brackets,
4x countersunk screw M5x10

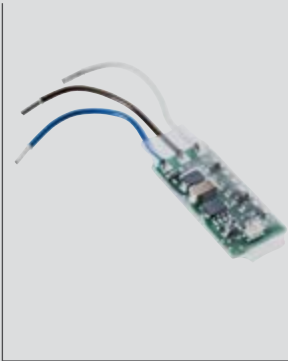
FRAME BRACKETS

K93 	Application Surface mounting on the transom/mullion profiles of outward opening windows, for rigid fixing of surface mounted drives KS2 with F41	Part.-No. 523916 Material/Finish Stainless steel Feature/Equipment 4x allen screw M5x10, 4x washer A 5,3	
K94 	Application Surface mounting on the casement/window frame profiles of in-/outward opening windows, for rigid or swivelling fixing of drives KS2 with F41, F35, F37	Part.-No. 523921 Material/Finish Stainless steel Feature/Equipment 4x torx screw M5x10 4x washer A 5,3 2x torx screw M5x16	
K96-1 	Application Surface mounting on the casement profiles of inward opening windows, for rigid or swivelling fixing of drives KS2 with F95	Part.-No. 523997 Material/Finish Stainless steel Feature/Equipment 4x torx screw M5x10, 2x torx screw M5x16, 4x washer A 5,3	
K129 	Application Surface mounting on the casement/window frame profiles of in-/outward opening windows, for rigid or swivelling fixing of drives KS2 with F41, F35, F37	Part.-No. 523969 Material/Finish Stainless steel Feature/Equipment 4x torx screw M5x10, 4x washer A 5,3	

OPTIONAL ACCESSORIES

Cover profile set				
AP KS2		Application Cover profile for surface mounted drives KS2 with brackets K94, K129, K130 . Profile length adjustable to the length of the drives (end caps recommended) or of the casement (without end caps)	Material/Finish see detailed description of componets	
			Feature/Equipment incl. profile brackets, without end caps	
		L = 1,5 m (incl. 2x profile bracket)	Part.-No. 523952	
		L = 2,0 m (incl. 3x profile bracket)	Part.-No. 523954	
		L = 2,9 m (incl. 4x profile bracket)	Part.-No. 523956	
Cover profile				
		1 Cover profile for drives KS2 for cutting on site Price per metre	Part.-No. 523951 Material/Finish aluminium (natural anodized) Feature/Equipment without profile brackets and end caps	
Profile bracket				
		2 Profile bracket for KS2 cover profile < 2 m length: 2 pieces > 2 m length: 3 – 4 pieces	Part.-No. 523948 Material/Finish aluminium (natural anodized) Feature/Equipment 1 piece (for fixing the cover profile)	
End caps				
		3 End caps for KS2 cover profile	Part.-No. 523950 Material/Finish aluminium (natural anodized) Feature/Equipment 2 pieces 4x screw M3x12 (taptite)	

OPTIONAL ACCESSORIES

Main control unit			
M-COM 	Application Configuration module for automatic configuration and monitoring of max. 4 opening drives / 2 locking drives version S12 / S3 in synchronised multi-drive systems Rated voltage: 24 V DC (19 V ... 28 V) Current consumption: <12 mA Drive type: S12	Part.-No. 524177 Protection rating IP30 rubber envelope Ambient temperature range 0 °C ... + 70 °C Dimensions 45 x 17 x 6 mm Connecting wires 3 wires 0,5 mm ² x 50 mm Feature/Equipment Printed circuit board with components and connection wires to be installed in connection box to be supplied on site	

Special model	PU/pcs.	Part.-No.		
Casement brackets painted / powder coated in other RAL colours				
Lump sum for coating		516030		
Specify at order stage:	1 – 20	516032		
	21 – 50	516032		
	51 – 100	516032		
	from 101	516032		
Frame brackets painted / powder coated in other RAL colours				
Lump sum for coating		516030		
Specify at order stage:	1 – 20	516031		
	21 – 50	516031		
	51 – 100	516031		
	from 101	516031		