

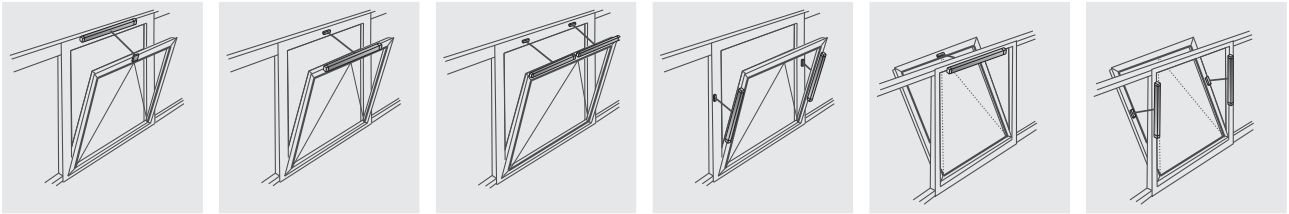
PRODUCT FEATURES KSA

- For natural ventilation, SHEV und ferralux® NRWG nach EN12101-2
- TWIN versions with two chains and doubled force
- Adjustable chain tension
- Mechanical chain unlocking
- Aluminium housing anodized or optionally in RAL colors
- High-quality stainless steel roller chain
- 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
- Integrated plug solution
- Compatible with the plug-in configuration modulel M-COM® Click

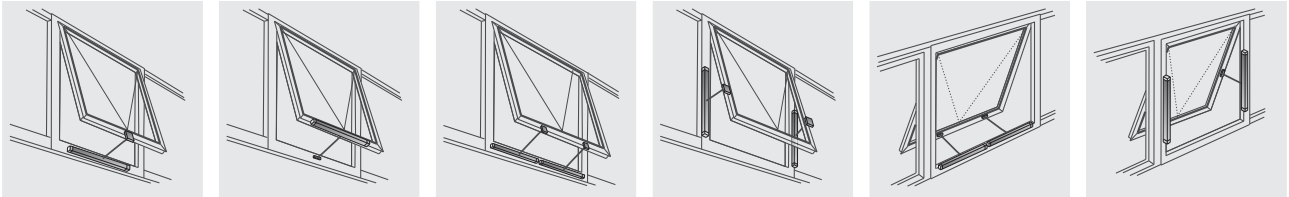
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.
 The LCA results of the different product types are listed at the end of this product catalogue.
 The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

FACADE

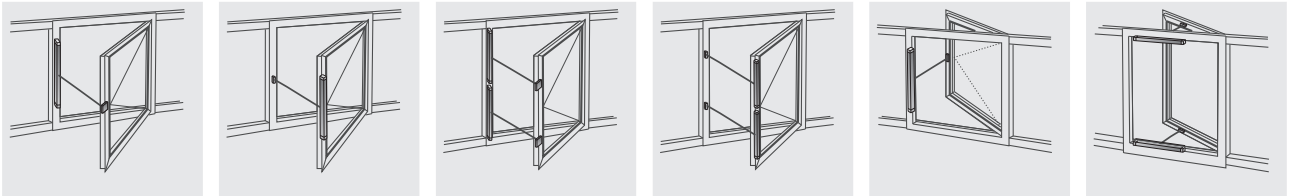
Bottom-hung



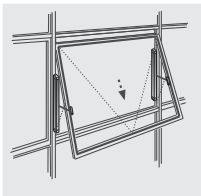
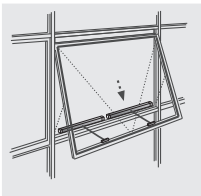
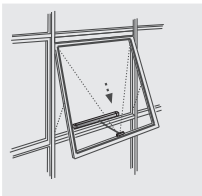
Top-hung



Side-hung



Friction hinged

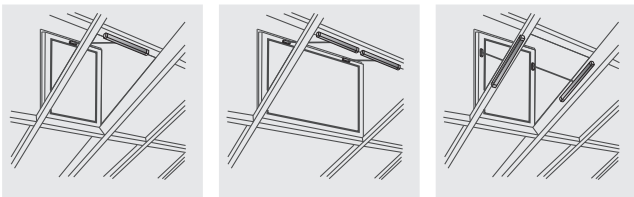


Parallel outward opening

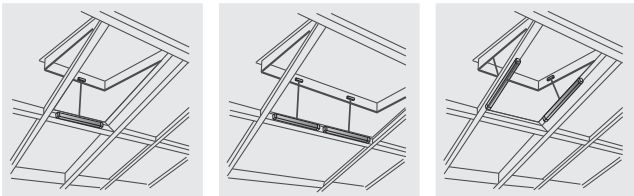


ROOF

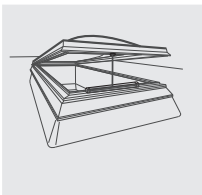
Bottom-hung



Top-hung

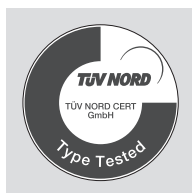


Sky light



Glass pyramid





- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking


Equipment

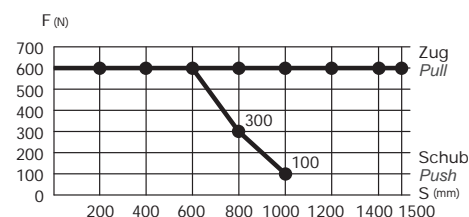
- Additional **AUMÜLLER-Click plug set** for multi-drive operation

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	24V DC (19 V ... 28 V)
I_N	Rated current	0,9 A
I_A	Cut-off current	1,2 A
P	Rated power	22 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	Pulling force max.	600 N
F_A	Pushing force max.	



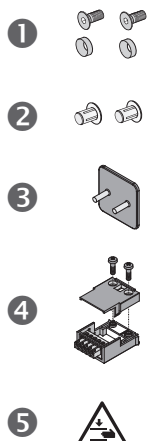
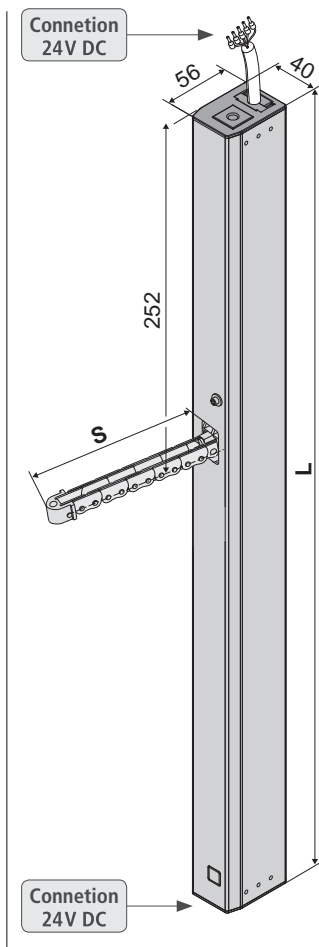
$s > 800$ mm only for pulling application

Pullout force	3.000 N (fastening depended)
Chain	stainless steel
Connecting cable	non-halogen, grey 5 x 0,5 mm ² , ~ 3 m
Speed	$s < 400$  8,0 mm/s  8,0 mm/s $s 500 - 600$  12,0 mm/s  8,0 mm/s $s > 600$  13,5 mm/s  8,0 mm/s

S	Stroke	250 – 1.500 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

In delivery

- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 2x blind plug for unused cable entry
- 1x chain unlocking key
- 1x **AUMÜLLER-Click plug set** (24V) for multi-drive operation
- 1x warning sign sticker „Risk of entrapment“

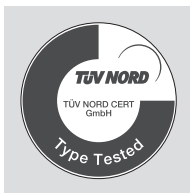


ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
250	515	KSA 250 S12 24V	E6/C-0	1	522725			
300	591	KSA 300 S12 24V	E6/C-0	1	522730			
400	591	KSA 400 S12 24V	E6/C-0	1	522740			
500	693	KSA 500 S12 24V	E6/C-0	1	522750			
600	693	KSA 600 S12 24V	E6/C-0	1	522760			
800	794	KSA 800 S12 24V	E6/C-0	1	522780			
1000	896	KSA 1000 S12 24V	E6/C-0	1	522810			
1200	998	KSA 1200 S12 24V	E6/C-0	1	522812			
1500	1151	KSA 1500 S12 24V	E6/C-0	1	522815			

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			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 5 x 0,5 mm²		501252			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 5 x 0,5 mm²		501253			
Microprocessor programming S12					
Electronic stroke reduction 24V S12		524190			
Programming drives 24V / 230V S12		524180			
Optional accessories					
M-COM® Click Configuration module for synchronised multi-drive systems		524167			
M-COM Configuration module for synchronised multi-drive systems		524177			



- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24V, 500 mA)

Equipment

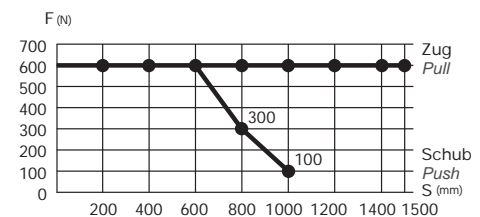
- Additional **AUMÜLLER-Click plug set** for multi-drive operation

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	24V DC (19 V ... 28 V)
I_N	Rated current	0,9 A
I_A	Cut-off current	1,2 A
P	Rated power	22 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	Pulling force max.	600 N
F_A	Pushing force max.	



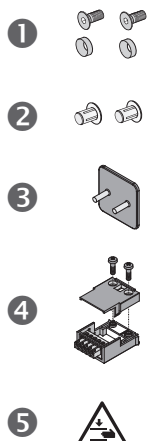
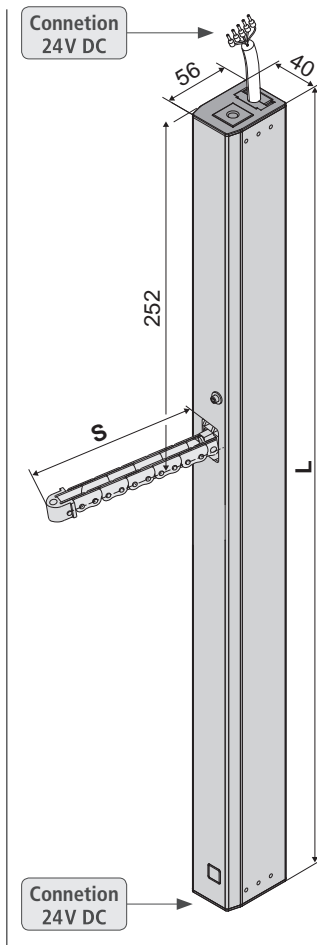
$s > 800$ mm only for pulling application

Pullout force	3.000 N (fastening depended)
Chain	stainless steel
Connecting cable	non-halogen, grey 5 x 0,5 mm ² , ~ 3 m
Speed	$s < 400$ 8,0 mm/s 8,0 mm/s $s 500 - 600$ 12,0 mm/s 8,0 mm/s $s > 600$ 13,5 mm/s 8,0 mm/s

S	Stroke	250 – 1.500 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

In delivery

- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 2x blind plug for unused cable entry
- 1x chain unlocking key
- 1x **AUMÜLLER-Click plug set** (24V) for multi-drive operation
- 1x warning sign sticker „Risk of entrapment“



ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
250	515	KSA 250 S12 24V Z	E6/C-0	1	522723			
300	591	KSA 300 S12 24V Z	E6/C-0	1	522733			
400	591	KSA 400 S12 24V Z	E6/C-0	1	522743			
500	693	KSA 500 S12 24V Z	E6/C-0	1	522753			
600	693	KSA 600 S12 24V Z	E6/C-0	1	522763			
800	794	KSA 800 S12 24V Z	E6/C-0	1	522783			
1000	896	KSA 1000 S12 24V Z	E6/C-0	1	522813			
1200	998	KSA 1200 S12 24V Z	E6/C-0	1	522823			
1500	1151	KSA 1500 S12 24V Z	E6/C-0	1	522853			

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			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 5 x 0,5 mm²		501252			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 5 x 0,5 mm²		501253			
Microprocessor programming S12					
Electronic stroke reduction 24V S12		524190			
Programming drives 24V / 230V S12		524180			
Optional accessories					
M-COM® Click Configuration module for synchronised multi-drive systems		1	524167		
M-COM Configuration module for synchronised multi-drive systems		1	524177		

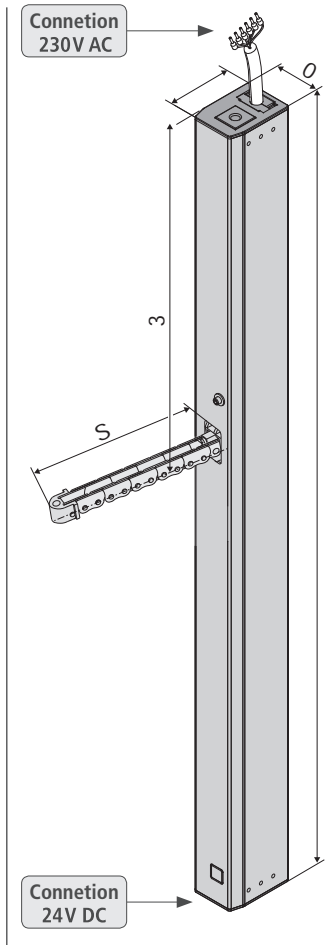
- Application: natural ventilation
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Parallel connection up to 8 drives in one group
- Additional connection of a 24V drive possible (on the 24V side)

Equipment

- Additional **AUMÜLLER-Click plug set** for multi-drive operation

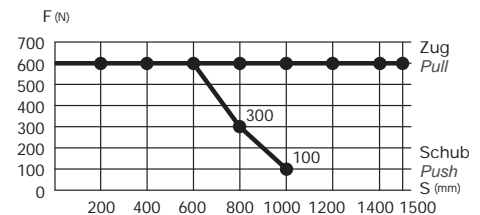
Options

- Programmable synchronised run (max. 4 drives) and special functions



TECHNICAL DATA

U_N	Rated voltage	230V AC (50 Hz)
I_N	Rated current	0,2 A
I_A	Cut-off current	0,2 A
P_N	Rated power	46 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.	600 N
F_A	Pushing force max.	

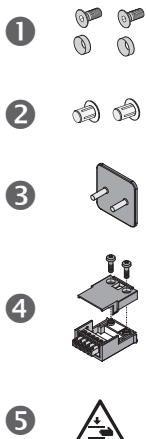


$s > 800$ mm only for pulling application

F_H	Pullout force	3.000 N (fastening depended)
	Chain	stainless steel
	Connecting cable	non-halogen, grey 6 x 0,75 mm ² , ~ 3 m
v	Speed	\swarrow 8,0 mm/s \searrow 8,0 mm/s
s	Stroke	250 – 1.500 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

In delivery

- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 2x blind plug for unused cable entry
- 1x chain unlocking key
- 1x **AUMÜLLER-Click plug set** (24V) for multi-drive operation
- 1x warning sign sticker „Risk of entrapment“



ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
250	591	KSA 250 S12 230V	E6/C-0	1	497025			
300	667	KSA 300 S12 230V	E6/C-0	1	497030			
400	667	KSA 400 S12 230V	E6/C-0	1	497040			
500	769	KSA 500 S12 230V	E6/C-0	1	497050			
600	769	KSA 600 S12 230V	E6/C-0	1	497060			
800	870	KSA 800 S12 230V	E6/C-0	1	497080			
1000	972	KSA 1000 S12 230V	E6/C-0	1	497110			
1200	1074	KSA 1200 S12 230V	E6/C-0	1	497112			
1500	1227	KSA 1500 S12 230V	E6/C-0	1	497115			

OPTIONS

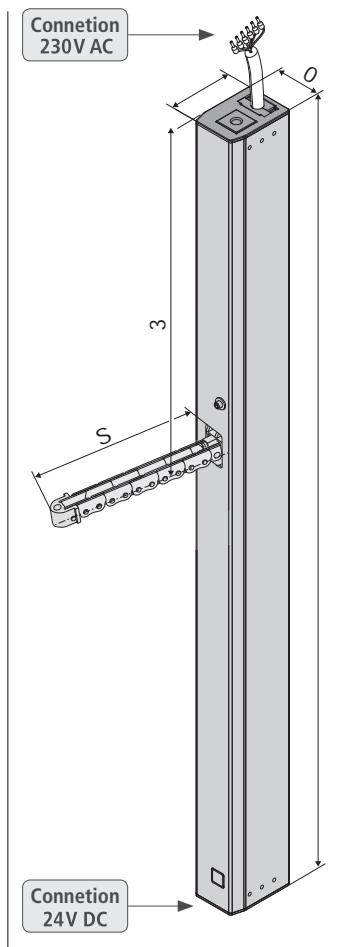
Special model	PU / pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516004			
	21 – 50	516004			
	51 – 100	516004			
	from 101	516004			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 6 x 0,75 mm²		501275			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 6 x 0,75 mm²		501280			
Microprocessor programming S12					
Programming synchronised multi-drive systems 230V S12		495588			
Electronic stroke reduction 230V S12		495590			
Programming drives 24V / 230V S12		524180			
Optional accessories					
M-COM® Click Configuration module for synchronised multi-drive systems	1	524167			
M-COM Configuration module for synchronised multi-drive systems	1	524177			



- Application: natural ventilation
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24V, 500 mA)
- Parallel connection up to 8 drives in one group
- Additional connection of a 24V drive possible (on the 24V side)

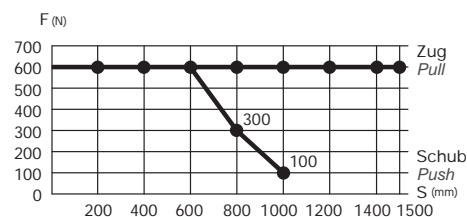
Equipment

- Additional **AUMÜLLER-Click plug set** for multi-drive operation



TECHNICAL DATA

U_N	Rated voltage	230V AC (50 Hz)
I_N	Rated current	0,2 A
I_A	Cut-off current	0,2 A
P_N	Rated power	46 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.	600 N
F_A	Pushing force max.	

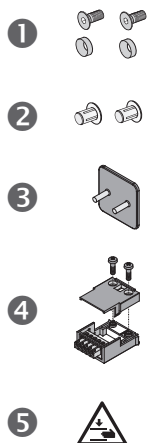


$s > 800$ mm only for pulling application

F_H	Pullout force	3.000 N (fastening depended)
	Chain	stainless steel
	Connecting cable	non-halogen, grey 6 x 0,75 mm ² , ~ 3 m
v	Speed	8,0 mm/s 8,0 mm/s
s	Stroke	250 – 1.500 mm
L	Length	see order data
	Sound pressure level	≤ 70 dB (A)

In delivery

- 1 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 2 2x blind plug for unused cable entry
- 3 1x chain unlocking key
- 4 1x **AUMÜLLER-Click plug set** (24V) for multi-drive operation
- 5 1x warning sign sticker „Risk of entrapment“



ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
250	591	KSA 250 S12 230V Z	E6/C-0	1	497023			
300	667	KSA 300 S12 230V Z	E6/C-0	1	497033			
400	667	KSA 400 S12 230V Z	E6/C-0	1	497043			
500	769	KSA 500 S12 230V Z	E6/C-0	1	497053			
600	769	KSA 600 S12 230V Z	E6/C-0	1	497063			
800	870	KSA 800 S12 230V Z	E6/C-0	1	497083			
1000	972	KSA 1000 S12 230V Z	E6/C-0	1	497113			
1200	1074	KSA 1200 S12 230V Z	E6/C-0	1	497123			
1500	1227	KSA 1500 S12 230V Z	E6/C-0	1	497153			

OPTIONS

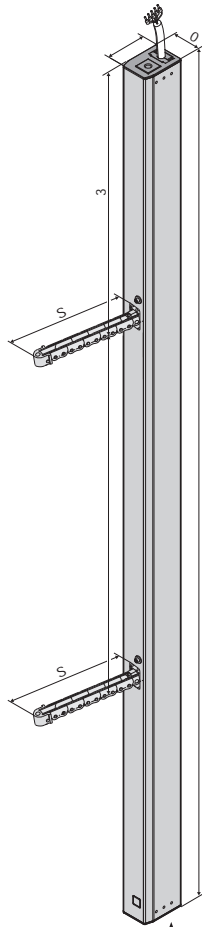
Special model	PU / pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516004			
	21 – 50	516004			
	51 – 100	516004			
	from 101	516004			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 6 x 0,75 mm²		501275			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 6 x 0,75 mm²		501280			
Microprocessor programming S12					
Electronic stroke reduction 230V S12		495590			
Programming drives 24V / 230V S12		524180			
Optional accessories					
M-COM® Click Configuration module for synchronised multi-drive systems	1	524167			
M-COM Configuration module for synchronised multi-drive systems	1	524177			



- Application: natural ventilation, SHEV
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking

Options

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



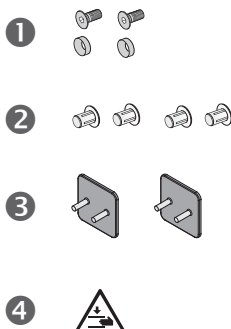
No electrical connection possible

TECHNICAL DATA

U_N	Rated voltage	24V DC (19 V ... 28 V)
I_N	Rated current	1,8 A
I_A	Cut-off current	2,4 A
P_N	Rated power	43 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.	1.200 N
F_A	Pushing force max.	1.200 N
F_H	Pullout force	5.000 N (fastening depended)
	Chain	stainless steel
	Connecting cable	non-halogen, grey 5 x 0,5 mm ² , ~ 3 m
v	Speed	s = 400 8,0 mm/s 8,0 mm/s s 500 – 600 12,0 mm/s 8,0 mm/s
s	Stroke	400 – 600 mm
L	Length	see order data
LM	Distance in between chains	see order data
	Sound pressure level	≤70 dB (A)

In delivery

- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 4x blind plug for unused cable entry
- 2x chain unlocking key
- 1x warning sign sticker „Risk of entrapment“



ORDER DATA

s [mm]	L [mm]	LM [mm]	Version	Finish	PU/pcs.	Part.-No.			
400	1150	485	KSA TWIN 400 S12 24V	E6/C-0	1	522745			
500	1353	587	KSA TWIN 500 S12 24V	E6/C-0	1	522755			
600	1353	587	KSA TWIN 600 S12 24V	E6/C-0	1	522765			

OPTIONS

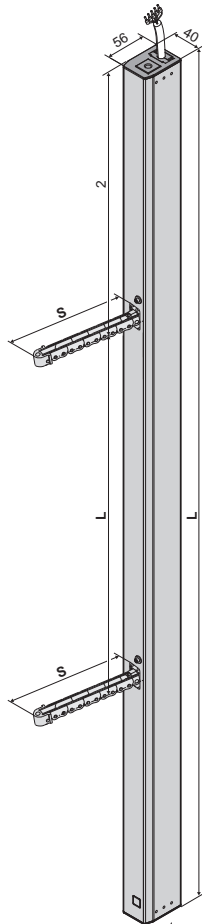
Special model	PU/pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516004			
	21 – 50	516004			
	51 – 100	516004			
	from 101	516004			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 5 x 0,5 mm²		501252			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 5 x 0,5 mm²		501253			
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, SHEV
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24V, 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)



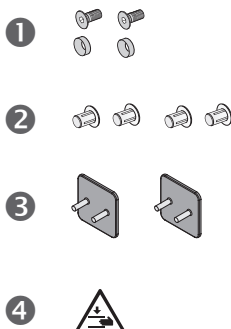
No electrical connection possible

TECHNICAL DATA

U_N	Rated voltage	24V DC (19 V ... 28 V)
I_N	Rated current	1,8 A
I_A	Cut-off current	2,4 A
P_N	Rated power	43 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.	1.200 N
F_A	Pushing force max.	1.200 N
F_H	Pullout force	5.000 N (fastening depended)
	Chain	stainless steel
	Connecting cable	non-halogen, grey 5 x 0,5 mm ² , ~ 3 m
v	Speed	s = 400 8,0 mm/s 8,0 mm/s s 500 – 600 12,0 mm/s 8,0 mm/s
s	Stroke	400 – 600 mm
L	Length	see order data
LM	Distance in between chains	see order data
	Sound pressure level	≤70 dB (A)

In delivery

- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 4x blind plug for unused cable entry
- 2x chain unlocking key
- 1x warning sign sticker „Risk of entrapment“

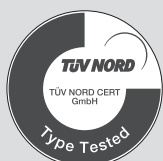


ORDER DATA

s [mm]	L [mm]	LM [mm]	Version	Finish	PU/pcs.	Part.-No.			
400	1150	485	KSA TWIN 400 S12 24V Z	E6/C-0	1	522747			
500	1353	587	KSA TWIN 500 S12 24V Z	E6/C-0	1	522757			
600	1353	587	KSA TWIN 600 S12 24V Z	E6/C-0	1	522767			

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			
Plug solution:					
AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 5 x 0,5 mm ²		501252			
AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 5 x 0,5 mm ²		501253			
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, SHEV
- Internal Intelligent Control Electronics S12

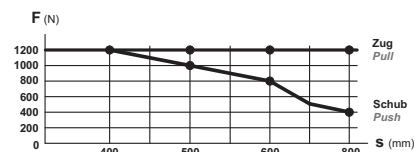
Options

- 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	24V DC (19V ... 28V)
I_N	Rated current	1,8 A
I_A	Cut-off current	2,4 A
P_N	Rated power	43 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.	1.200 N
F_A	Pushing force max.	



F_H	Pullout force	5.000 N (fastening depended)
	Chain	Stainless steel
	Connecting cable	non-halogen, grey- 5 x 0,5 mm ² , ~ 5 m
v	Speed	$s = 400$ \rightarrow 8,0 m/s \leftarrow 8,0 m/s $s = 500 - 600$ \rightarrow 12,0 m/s \leftarrow 8,0 m/s $s > 600$ \rightarrow 13,5 m/s \leftarrow 8,0 m/s
s	Stroke	400 – 800 mm
L	Length	see order data
LM	Distance in between chains	see order data
	Sound pressure level	≤ 70 dB (A)

Components packed with drive

2x Countersunk-head screw M8x16, 2x Spacer ring (brass)

ORDER DATA

s [mm]	L [mm]	LM [mm]	Version	Finish	PU/pcs.	Part.-No.			
400	737	297	KSA D 400 S12 24V	E6/C-0	1	522140			
500	837	397	KSA D 500 S12 24V	E6/C-0	1	522150			
600	837	397	KSA D 600 S12 24V	E6/C-0	1	522160			
800	942	502	KSA D 800 S12 24V	E6/C-0	1	522180			

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:					
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			

OVERVIEW OF BRACKETS									
Typical application					1	2	3	4	5
Frame bracket					K-A1	K84-1, K87, K-C3, K-E1, K-E2	K-B1	K-B2	K-D3
Casement bracket					F16, F49	F16, F16-1, F29-2, F33, F38, F39, F49	F16, F49		
Space requirement		min.	[mm]		35	65 – 90	45 – 55		45
Overlap thickness *1			[mm]		0 – 21	irrelevant	0 – 21		0 – 21
Opening angle *2		max.	[DEG]		20	60	50		40
Casement weight *3		max.	[Kg]		250	130	130		130
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]	700 – 1300				
			Sync2	[mm]	1250 – 2500				
FAH*4			Solo	[mm]	450 – 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.

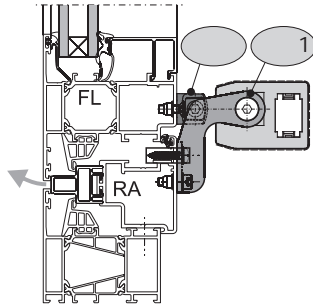
*3 Please respect the individual geometry of the different windows. The listed max. casement weight refers to a single drive on button hung window with a max. opening angle.

*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.

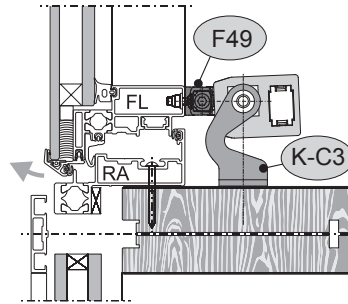
TYPICAL APPLICATIONS

1 RM, top hung, outward opening



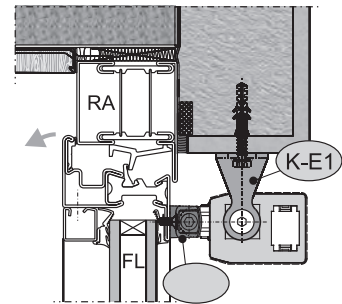
View on aluminium window

2 PR, top hung, outward opening



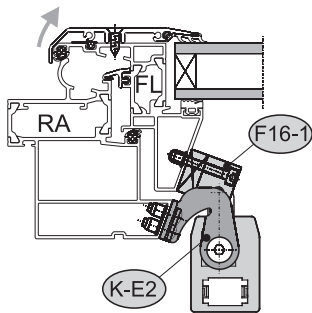
View on aluminium window

2 PR, bottom hung, outward opening



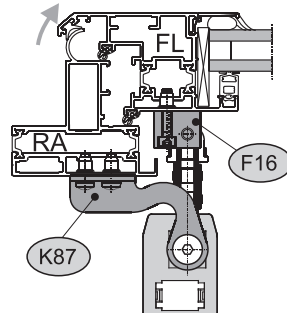
View on aluminium window

2 RM, roof



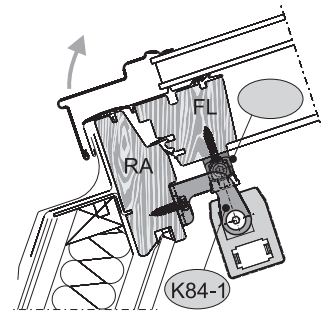
View on aluminium window

2 RM, roof



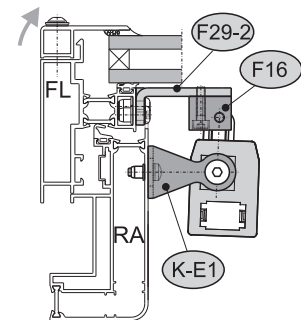
View on aluminium window

2 RM, roof



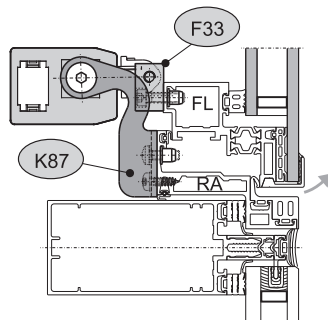
View on aluminium window

2 RM, roof



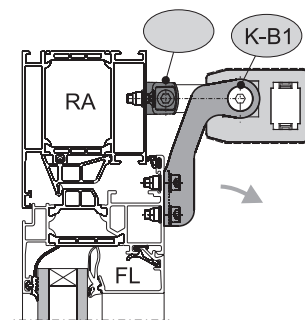
View on aluminium window

2 RM, top hung, outward opening



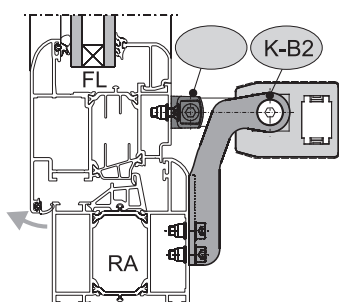
View on aluminium window

3 FM, bottom hung, inward opening



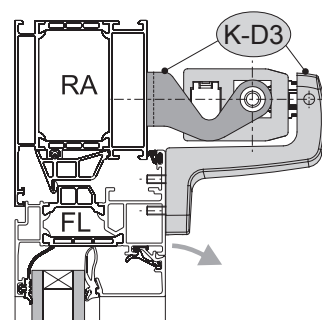
View on aluminium window

4 RM, top hung, outward opening



View on aluminium window

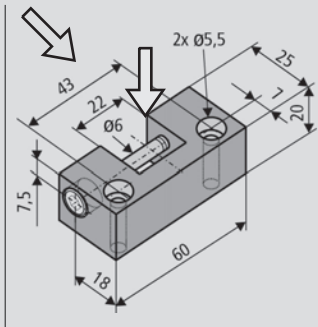
5 RM, bottom hung, inward opening



View on aluminium window

CASEMENT BRACKETS

F16



Application

Surface mounting on the casement/window frame profiles of in-/outward opening windows (e.g. friction hinged or roof windows), for surface mounted drives **KSA** with **K-A1, K-B1, K-B2, K-C3, K-E1, K-E2, K84-1, K87**

Chain fixing in direction of the arrow

Part.-No. 524204

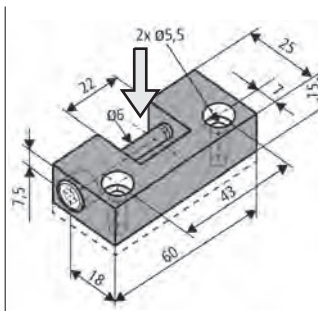
Material/Finish

aluminium
(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x50

F33



Application

Surface mounting on the casement profile of outward opening windows (e.g. friction hinged or roof windows), for surface mounted drives **KSA** with **K-A1, K-B1, K-B2, K-C3, K-E1, K84-1, K87**

Chain fixing in direction of the arrow

Part.-No. 524203

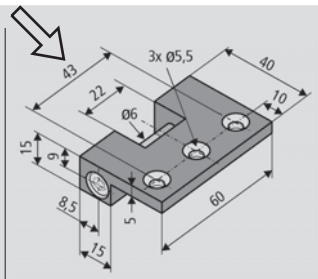
Material/Finish

aluminium
(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x50

F38



Application

Surface mounting on the casement profile of outward opening friction hinged windows, for surface mounted drives **KSA** with **K-A1, K-B1, K87**

Chain fixing in direction of the arrow

Part.-No. 524199

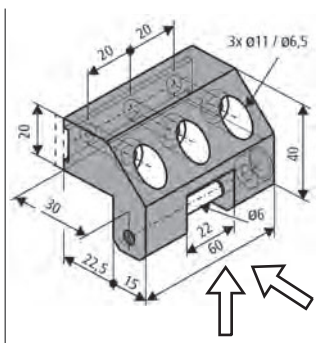
Material/Finish

aluminium
(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x5

F39



Application

Surface mounting on the casement profile of outward opening roof windows, for surface mounted drives **KSA** with **K-A1, K-B1, K-B2, K-C3, K-E1, K-E2, K84-1**

Chain fixing in direction of the arrow

Part.-No. 524295

Material/Finish

aluminium
(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x50

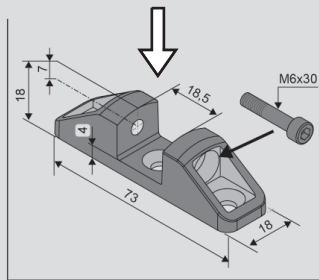
Optional accessories

B2 Base Plate F39

Part.-No. 155173

CASEMENT BRACKETS

F49

**Application**

Surface mounting on the casement profiles of inward opening windows, for **swivelling** fixing of drives **KSA** with **K-A1, K-B1, K-B2, K-C3, K-E1, K-E2, K84-1, K87, K125**

Chain fixing in direction of the arrow

Part.-No. 524299**Material / Finish**

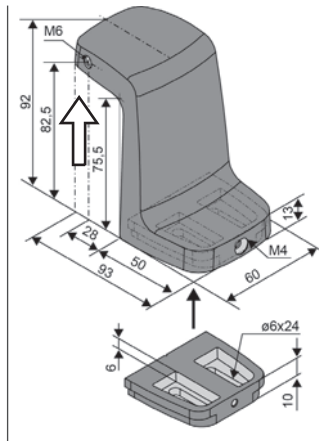
Cast aluminum,
RAL 9006

Feature / Equipment

1x cylinder head screw
M6x30

REPLACES F14

F44

**Application**

Surface mounting on the casement profiles of inward opening windows, for surface mounted drives **KSA** with **K-C3**

Chain fixing in direction of the arrow

Part.-No. 524297**Material / Finish**

Cast aluminum,
RAL 9006

Feature / Equipment

1x baseplate
1x countersunk screw
M4x10
1x cylinder head screw
M6x35

REPLACES F73

FRAME BRACKETS

K-A1		<p>Application</p> <p>Surface mounting on the casement/window frame profiles of in-/outward opening windows, for swivelly fixing of drives KSA with F16, F33, F38, F39, F49</p> <p>(Required space on frame profile 35 mm)</p>	<p>Part.-No. 524057</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K-B1		<p>Application</p> <p>Surface mounting on the casement/ window frame profiles of in-/outward opening windows, for swivelling fixing of drives KSA with F16, F33, F38, F39, F49</p> <p>(Required space on frame profile 35 – 52 mm)</p>	<p>Part.-No. 524053</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K-B2		<p>Application</p> <p>Surface mounting on the casement/ window frame profiles of in-/outward opening (wooden) windows, for swivelling fixing of drives KSA with F16, F33, F39, F49</p> <p>(Required space on frame profile 35 – 52 mm)</p>	<p>Part.-No. 524063</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K-C3		<p>Application</p> <p>Surface mounting on the casement/window frame profiles or on the mullion/transom of outward opening windows, for swivelling fixing of drives KSA with F16, F33, F39, F49</p>	<p>Part.-No. 524067</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K-D3		<p>Application</p> <p>Surface mounting on the casement and frame profile of inward opening windows, for swivelling fixing of drives KSA on the frame profile (required space 50 mm)</p>	<p>Part.-No. 524068</p> <p>Material/Finish Stainless steel (K-C3), Aluminum casting (F44)</p> <p>Feature/Equipment 1x K-C3, 1x F44</p>			
<p>Accessories for</p> <p>F44 Casement bracket „Z“</p>						
				Part.-No. 524297		

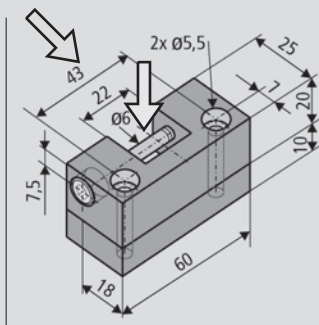
FRAME BRACKETS

K-E1		<p>Application</p> <p>Surface mounting on the mullion/transom of outward opening windows, for swiveling fixing of drives KSA with F16, F33, F39, F49</p>	<p>Part.-No. 524056</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K-E2		<p>Application</p> <p>Surface mounting on the window frame profiles or on the mullions/transoms of outward opening roof windows, for swiveling fixing of drives KSA with F16, F16-1, F33, F39, F49</p>	<p>Part.-No. 524066</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			
K84-1		<p>Application</p> <p>Surface mounting on the window frame profiles or on the mullions/transoms of outward opening roof windows, for swiveling fixing of drives KSA with F16, F33, F39, F49</p>	<p>Part.-No. 524224</p> <p>Material/Finish Stainless steel</p> <p>Feature/Equipment 1x right, 1x left</p>			

SPECIFIC APPLICATIONS

ROOF WINDOWS | SCHÜCO AWS 57RO

F16-1



Application

Surface mounting on the case-
ment profile of outward opening
roof windows series
Schüco AWS 57RO, for fixing
of drives **KSA**

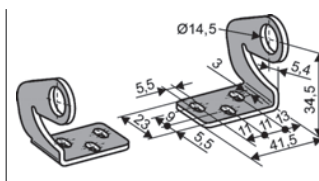
Chain fixing in direction of the
arrow

Part.-No. 155171

Material/Finish
aluminium
(natural anodized)

Feature/Equipment
1x cylinder head screw
M6x50 with base plate

K-E2



Application

Surface mounting on the
window frame profiles or on the
mullions/transoms of outward
opening roof windows, for
swivelling fixing of drives **KSA**
with **F16, F16-1, F33, F39, F49**

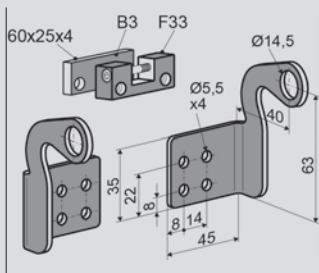
Part.-No. 524066

Material/Finish
Stainless steel

Feature/Equipment
1x right,
1x left

FRICTION HINGED WINDOWS | SCHÜCO FW50

K87



Application

Surface mounting on the
window frame profiles of outward
opening friction hinged
windows **Schüco FW50+**,
for swivelling fixing of drives
KSA (Required space on frame
profile **35 mm**)

Part.-No. 524319

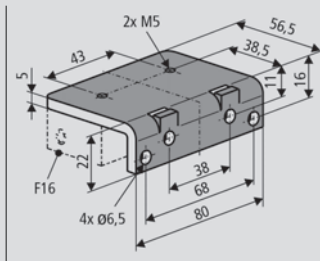
Material/Finish
Stainless steel

Feature/Equipment
1x right,
1x left,
incl. F33 + B3

SPECIFIC APPLICATIONS

ROOF WINDOWS | HEROAL 085 / 180

F29-2



Application

Surface mounting on the casement profile of outward opening roof windows series **Heroal 085 / 180**, for fixing of drives **KSA** with **F16**

Part.-No. 155157

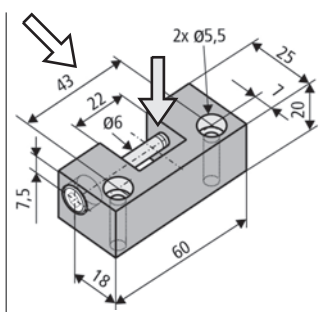
Material/Finish

Stainless steel

Feature/Equipment

2x cylinder head screw
M6x20

F16



Application

Surface mounting on the casement/window frame profiles of in-/outward opening windows (e.g. friction hinged or roof windows), for surface mounted drives **KSA** with **K-A1, K-B1, K-B2, K-C3, K-E1, K-E2, K84-1, K87**

Part.-No. 524204

Material/Finish

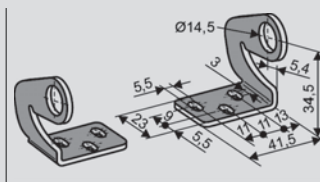
aluminium
(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x50

Chain fixing in direction of the arrow

K-E2



Application

Surface mounting on the window frame profiles or on the mullions/transoms of outward opening roof windows, for swivelling fixing of drives **KSA** with **F16, F33, F39, F49**

Part.-No. 524066

Material/Finish

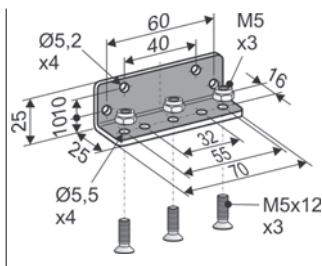
Stainless steel

Feature/Equipment

1x right,
1x left

SKYLIGHT DOME

B1



Application

Mounting angle for mounting of drives **KS2** with **F21** and **KSA** with **F49** on skylight domes

Part.-No. 151422

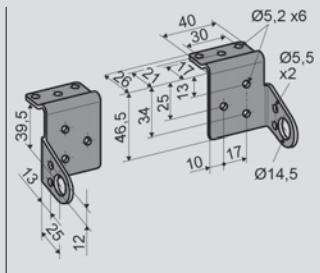
Material/Finish

Stainless steel

Feature/Equipment

3x countersunk-head screw
M5x12,
3x nut M5

K125



Application

Surface mounting on the upstand of skylight domes for fixing of drives **KS2** and **KSA** with **B1**

Part.-No. 523979

Material/Finish

Stainless steel

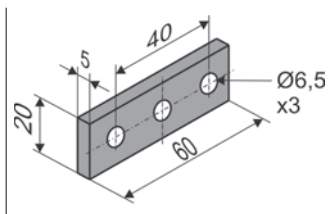
Feature/Equipment

4x screw M5x10

OPTIONAL ACCESSORIES

Base Plate F39

B2



Application

Support for F39 as packing plate for mounting on the casement profiles of outward opening roof windows

Part.-No. 155173

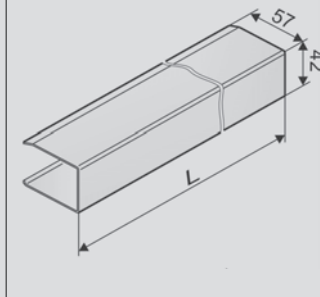
Material/Finish
aluminium
(natural anodized)

Feature/Equipment
60 x 20 x 5 mm

OPTIONAL ACCESSORIES

Cover-profile Set

AP-KSA



Application

Cover profile for surface mounted drives **KSA** with frame bracket sets **K-A1, K-B1, K-B2, K-E2, K84-1**. Profile length adjustable to the length of the drives or of the casement

Material/Finish

aluminium (natural anodized) + plastic (grey)

Feature/Equipment

incl. mounting aid for cover profile shortening on the job site + mounting set

L = 1,45 m

(length w/o end caps)

Part.-No. 524307

incl. end cap and mounting aid

L = 2,90 m

(length w/o end caps)

Part.-No. 524313

incl. end cap and mounting aid

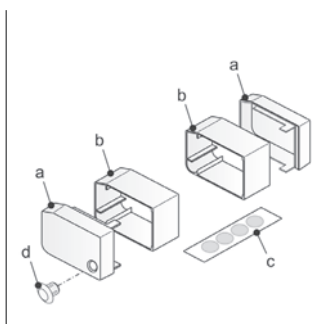
L = customized

(Price per metre)

Part.-No. 524314

only profile

Assembly-set for cover profile (grey)



Part.-No. 524300

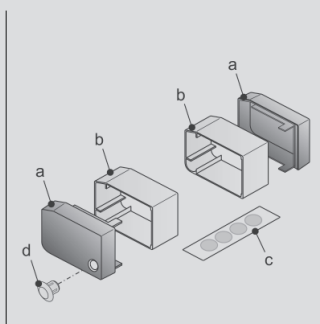
Material/Finish

aluminium, plastic (grey)

Feature/Equipment

- a. 2x end cap
- b. 2x spacer
- c. 4x stickers
- d. 1x dummy plug

Assembly-set for cover profile (black)



Part.-No. 524303

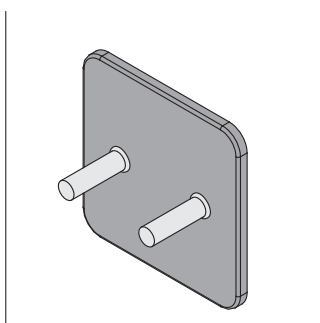
Material/Finish

aluminium, plastic (black)

Feature/Equipment

- a. 2x end cap
- b. 2x spacer
- c. 4x stickers
- d. 1x dummy plug

Chain unlocking key



Application

Manual unlocking of the drive chain for mounting of drives **KSA**

Part.-No. 524210

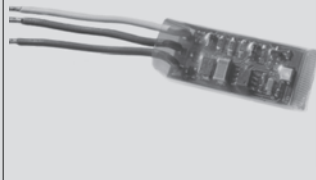
Material/Finish

plastic

OPTIONAL ACCESSORIES

Main control unit

M-COM



Application

Configuration module for automatic configuration and surveillance of max. 4 opening drives / 2 locking drives version S12 / S3 in synchronised multi-drive systems

Rated voltage:

24V DC (19V ... 28V)

Current consumption: <12 mA

Drive type: S12

Protection rating

IP30 rubber envelope

Part.-No. 524177

Ambient temperature

range: 0 °C ... + 70 °C

Dimensions

45 x 17 x 6 mm

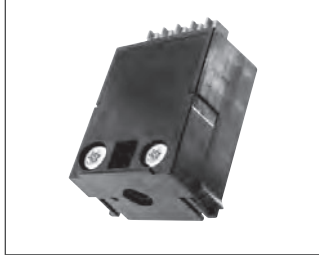
Connecting wires

3 wires 0,5 mm² x 50 mm

Feature/Equipment

Printed circuit board with components and connection wires to be installed in connection box to be supplied on site

M-COM® Click



Application

Configuration module for automatic configuration and surveillance of max. 4 opening drives / 2 locking drives version S12 / S3 in synchronised multi-drive systems

Rated voltage:

24V DC (19V ... 28V)

Current consumption: <12 mA

Drive type: S12

Protection rating: IP30

Part.-No. 524167

Ambient temperature

range: -5 °C ... +70 °C

Dimensions:

40 x 26 x 15 mm

Connection:

for AUMÜLLER chain drives with AUMÜLLER-Click plug solution

Equipment

Tongs for removing the M-COM® Click

Plug solution

AUMÜLLER-Click plug solution



Picture: 24V

Application

AUMÜLLER-Click plug solution: Unified plug solution for all AUMÜLLER chain drives and AUMÜLLER folding arm drives.

Rated voltage:

24V DC (19V ... 28V)

Connecting cable:

non-halogen, grey

5 x 0,5 mm² (24V)

6 x 0,75 mm² (230V)

Terminal: to 1,5 mm²

Feature/Equipment

- Flexible cable length
- Connect multiple drives in series connection
- Torsion-plug
- Locking hooks prevent withdrawal of the plug under tensile load
- Strain relief according DIN EN 60335-1 by screwing the housing halves

VARIANTEN: 24V

3 m cable length - 24 V DC

Part.-No. 501251

5 m cable length - 24 V DC

Part.-No. 501252

10 m cable length - 24 V DC

Part.-No. 501253

VARIANTEN: 230V

3 m cable length - 230 V AC

Part.-No. 501273

5 m cable length - 230 V AC

Part.-No. 501275

10 m cable length - 230 V AC

Part.-No. 501280

CASEMENT BRACKETS AND FRAME BRACKETS

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			