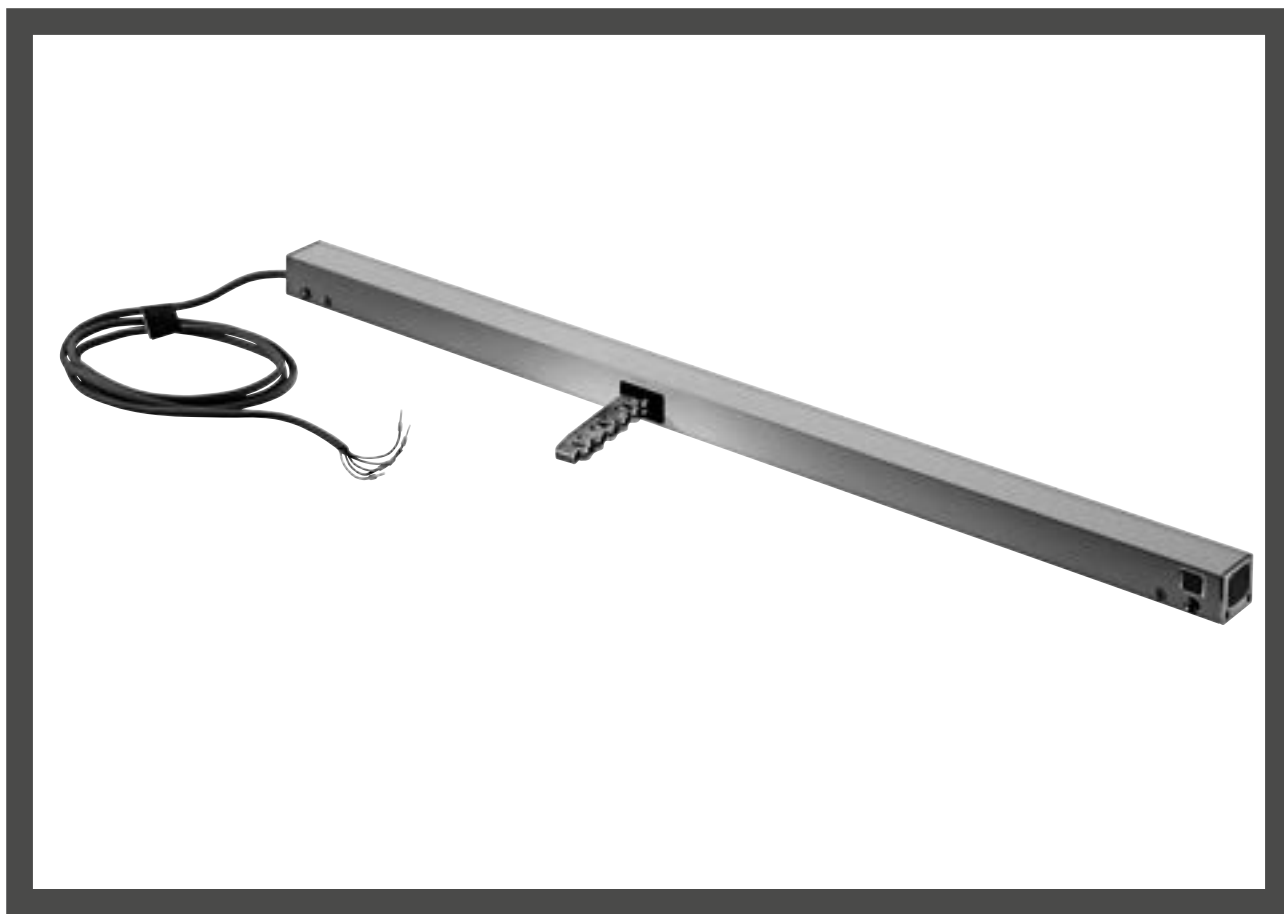




PRODUCT FEATURES KS4

- For natural ventilation, smoke and heat exhausting systems and ferralux® NRWG (EN12101-2)
- 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
- Feedback limit position „CLOSE“ (max. 24 V, 500 mA)
- Programmable parameters of Intelligent Control Electronics S12:
 - Feedback limit position „OPEN“ (max. 24V, 500 mA)
 - 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

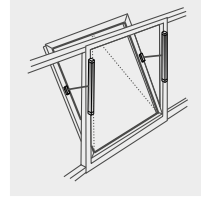
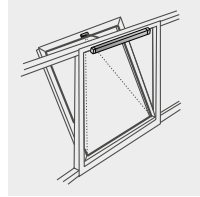
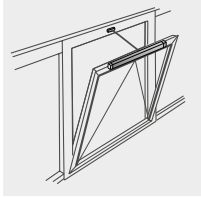
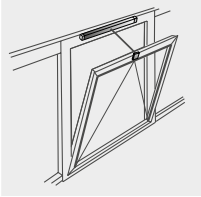
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

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

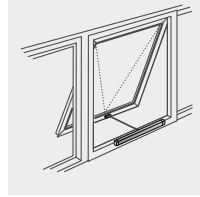
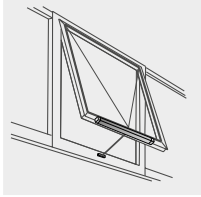
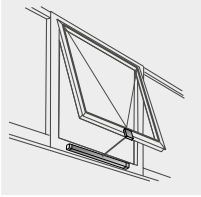
The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

FACADE

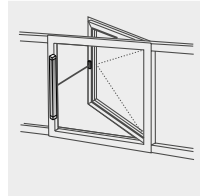
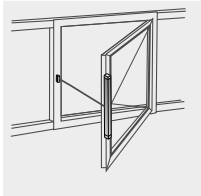
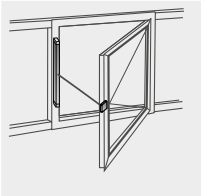
Bottom-hung



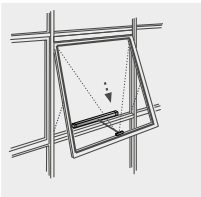
Top-hung



Side-hung

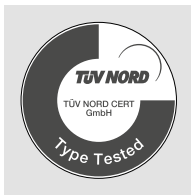


Friction hinged



Parallel outward opening





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

Equipment

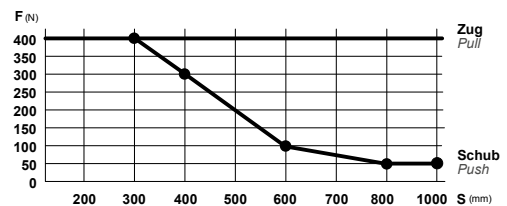
- Additional **AUMÜLLER-Click plug set** for multi-drive operation

Options

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

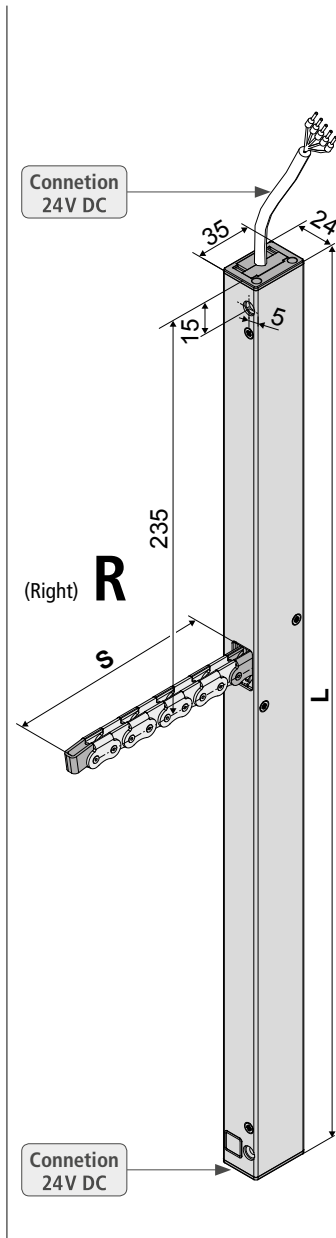
TECHNICAL DATA

U_N	Rated voltage	24V DC (19V ... 28V)
I_N	Rated current	0,9 A
I_A	Cut-off current	1,2 A
P_N	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_Z	Pulling force max.	400 N
F_A	Pushing force max.	

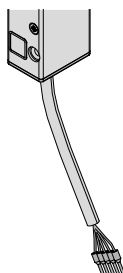


$s > 600$ mm only for pulling application

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 5 x 0,5 mm ² , ~ 2 m
v	Speed	$s \leq 400$  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
s	Stroke	50 – 1000 mm
L	Length	see order data
	Feedback contact	limit position „CLOSE“ (max. 24V, 500 mA)
	Sound pressure level	≤ 70 dB (A)



OPTION



AUMÜLLER chain drives have an integrated cable routing with connection sockets on both housing ends. This enables the following options:

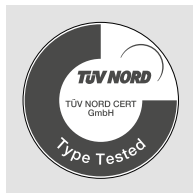
- **AUMÜLLER-Click plug** solution with various cable lengths
Part-No.: **501251** - 3 m cable length / **501252** - 5 m cable length / **501253** - 10 m cable length
- Series connection of several drives into multi drive systems
- Power supply from both sides

ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
200	455	KS4 200 S12 24V R	E6/C-0	1	522020			
300	551	KS4 300 S12 24V R	E6/C-0	1	522030			
400	551	KS4 400 S12 24V R	E6/C-0	1	522040			
500	665	KS4 500 S12 24V R	E6/C-0	1	522050			
600	665	KS4 600 S12 24V R	E6/C-0	1	522060			
800	755	KS4 800 S12 24V R	E6/C-0	1	522080			
1000	868	KS4 1000 S12 24V R	E6/C-0	1	522000			

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 - 3 m – non-halogen, grey – 5 x 0,5 mm ²		501251			
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® Click Configuration module for synchronised multi-drive systems	1	524167			
M-COM Configuration module for synchronised multi-drive systems	1	524177			



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

Equipment

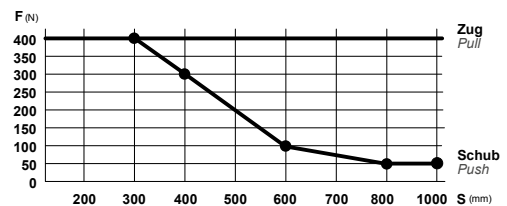
- Additional **AUMÜLLER-Click plug set** for multi-drive operation

Options

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

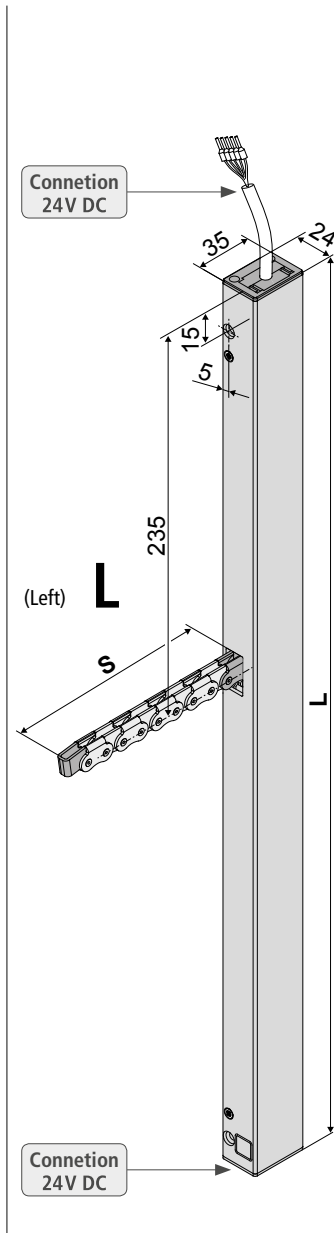
TECHNICAL DATA

U_N	Rated voltage	24V DC (19V ... 28V)
I_N	Rated current	0,9 A
I_A	Cut-off current	1,2 A
P_N	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_Z	Pulling force max.	400 N
F_A	Pushing force max.	

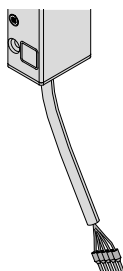


$s > 600$ mm only for pulling application

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 5 x 0,5 mm ² , ~ 2 m
v	Speed	$s \leq 400$  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
s	Stroke	50 – 1000 mm
L	Length	see order data
	Feedback contact	limit position „CLOSE“ (max. 24V, 500 mA)
	Sound pressure level	≤ 70 dB (A)



OPTION

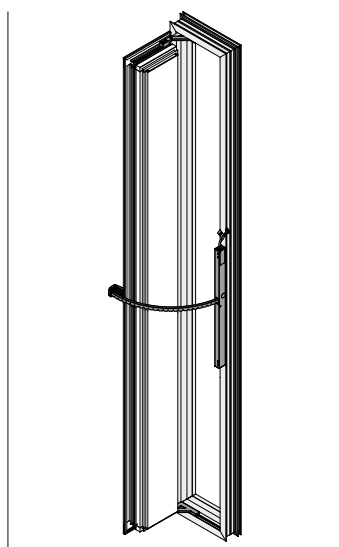
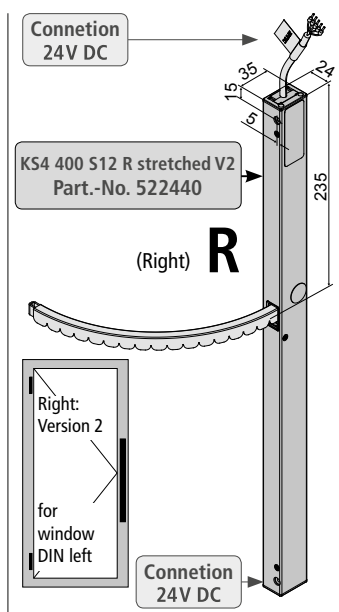
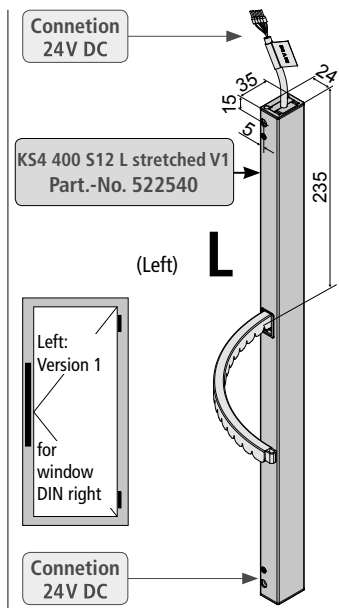


AUMÜLLER chain drives have an integrated cable routing with connection sockets on both housing ends. This enables the following options:

- **AUMÜLLER-Click plug** solution with various cable lengths
Part-No.: **501251** - 3 m cable length / **501252** - 5 m cable length / **501253** - 10 m cable length
- Series connection of several drives into multi drive systems
- Power supply from both sides

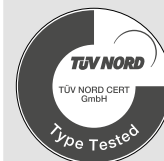
ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.	
200	455	KS4 200 S12 24V L	E6/C-0	1	520120	
300	551	KS4 300 S12 24V L	E6/C-0	1	520130	
400	551	KS4 400 S12 24V L	E6/C-0	1	520140	
500	665	KS4 500 S12 24V L	E6/C-0	1	520150	
600	665	KS4 600 S12 24V L	E6/C-0	1	520160	
800	755	KS4 800 S12 24V L	E6/C-0	1	520180	
1000	868	KS4 1000 S12 24V L	E6/C-0	1	520100	

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 - 3 m – non-halogen, grey – 5 x 0,5 mm ²					501251	
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® Click Configuration module for synchronised multi-drive systems				1	524167	
M-COM Configuration module for synchronised multi-drive systems				1	524177	



Attached assembly

- Flexible „side bow chain“ for narrow high windows
- Attached assembly with casement bracket F42
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Feedback limit position „CLOSE“ (max. 24 V, 500 mA)



Equipment

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

Options

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- 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	0,6 A
I_A	Cut-off current	0,8 A
P_N	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_Z	Pulling force max.	200 N
F_A	Pushing force max.	200 N
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 5 x 0,5 mm ² , ~ 2 m
v	Speed	$s < 400$  8,0 mm/s  8,0 mm/s
s	Stroke max.	400 mm
L	Length	see order data
	Feedback contact	limit position „CLOSE“ (max. 24V, 500 mA)
	Sound pressure level	≤ 70 dB (A)

AUMÜLLER chain drives have an integrated cable routing with connection sockets on both housing ends. This enables the following options:

- **AUMÜLLER-Click plug** solution with various cable lengths
Part.-No.: **501251** - 3 m cable length / **501252** - 5 m cable length / **501253** - 10 m cable length
- Series connection of several drives into multi drive systems
- Power supply from both sides

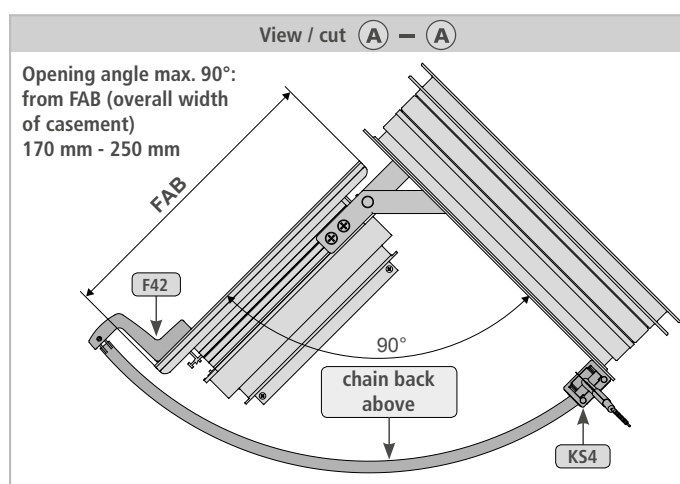
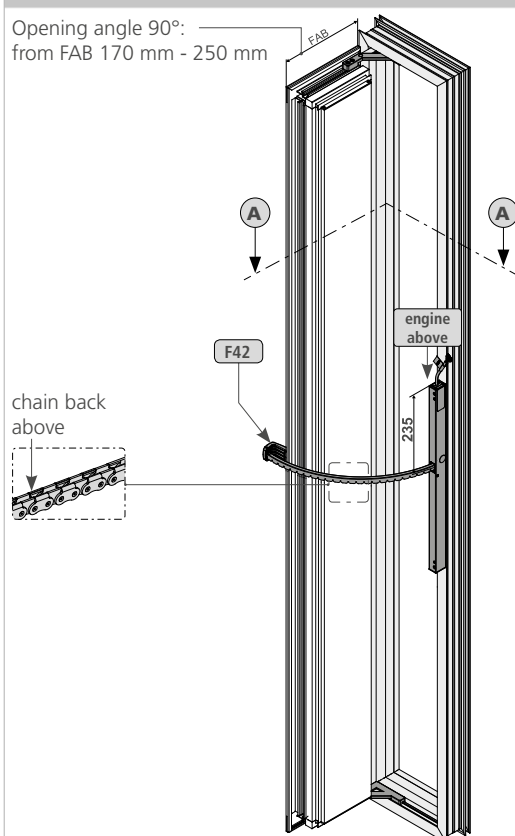
ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
400	551	KS4 400 S12 24V L stretched chain V1	E6/C-0	1	522540			
400	551	KS4 400 S12 24V R stretched chain V2	E6/C-0	1	522440			

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 - 3 m – non-halogen, grey – 5 x 0,5 mm ²		501251			
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® Click Configuration module for synchronised multi-drive systems	1	524167			
M-COM Configuration module for synchronised multi-drive systems	1	524177			

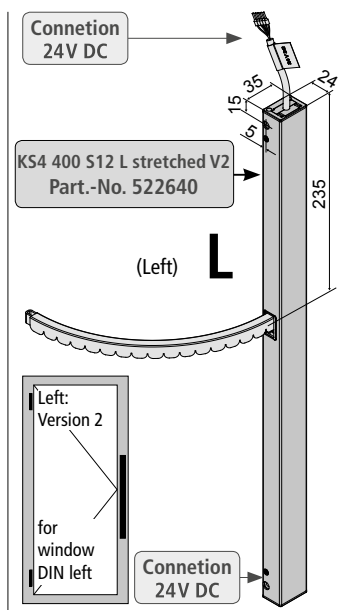
Attached assembly



Stroke programming

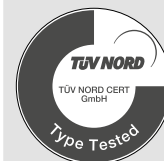
FAB	Stroke	Opening angle approx.
170	280	90°
180	305	90°
200	330	90°
225	350	90°
250	375	90°
275	400	85°
300	400	80°

The stroke is programmed: • according to the desired opening angle
• depending on the FAB



Concealed mounting inside profiles

- Flexible „side bow chain“ for narrow high windows
- Concealed mounting inside profiles with casement bracket F43 and frame bracket K133
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Feedback limit position „CLOSE“ (max. 24 V, 500 mA)

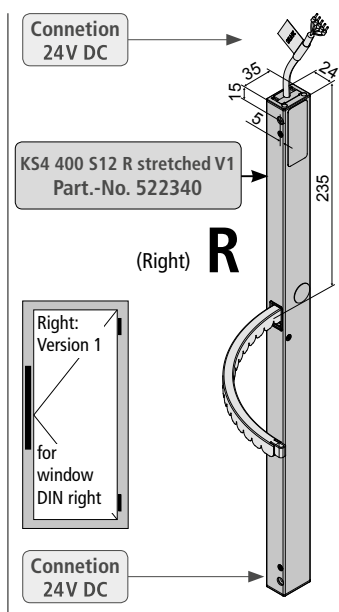


Equipment

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

Options

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- 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	0,6 A
I_A	Cut-off current	0,8 A
P_N	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_Z	Pulling force max.	200 N
F_A	Pushing force max.	200 N
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 5 x 0,5 mm², ~ 2 m

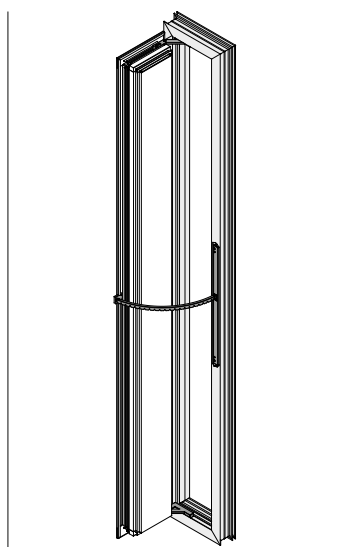
v Speed $s < 400$  8,0 mm/s  8,0 mm/s

s Stroke max. 400 mm

L Length see order data

Feedback contact limit position „CLOSE“ (max. 24V, 500 mA)

Sound pressure level ≤ 70 dB (A)



AUMÜLLER chain drives have an integrated cable routing with connection sockets on both housing ends. This enables the following options:

- **AUMÜLLER-Click plug solution** with various cable lengths
Part.-No.: 501251 - 3 m cable length / 501252 - 5 m cable length / 501253 - 10 m cable length
- Series connection of several drives into multi drive systems
- Power supply from both sides

ORDER DATA

s [mm]	L [mm]	Version	Finish	PU / pcs.	Part.-No.			
400	551	KS4 400 S12 24V L stretched chain V2	E6/C-0	1	522640			
400	551	KS4 400 S12 24V R stretched chain V1	E6/C-0	1	522340			

OPTIONS

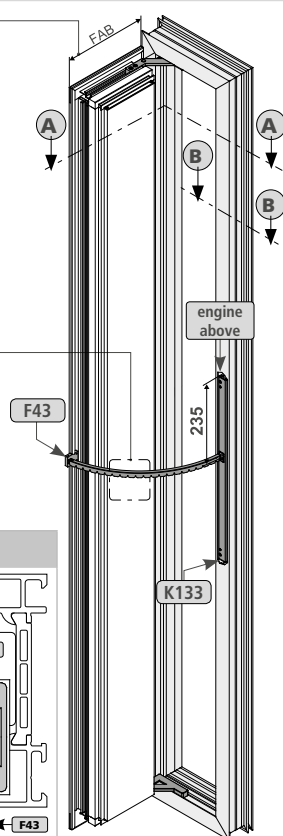
Special model	PU / pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516004			
	21 – 50	516004			
	51 – 100	516004			
	from 101	516004			
Plug solution:					
AUMÜLLER-Click plug solution - 3 m – non-halogen, grey – 5 x 0,5 mm ²		501251			
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® Click Configuration module for synchronised multi-drive systems	1	524167			
M-COM Configuration module for synchronised multi-drive systems	1	524177			

Concealed mounting inside profiles

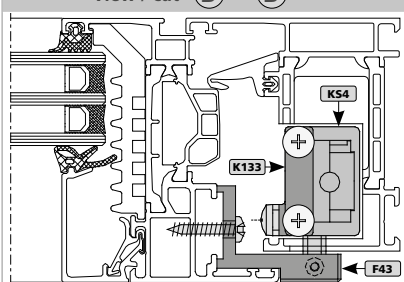
Opening angle 90°:
from FAB 170 mm - 250 mm

Planning of the „concealed mounting
inside profiles“ on request!

chain back
above

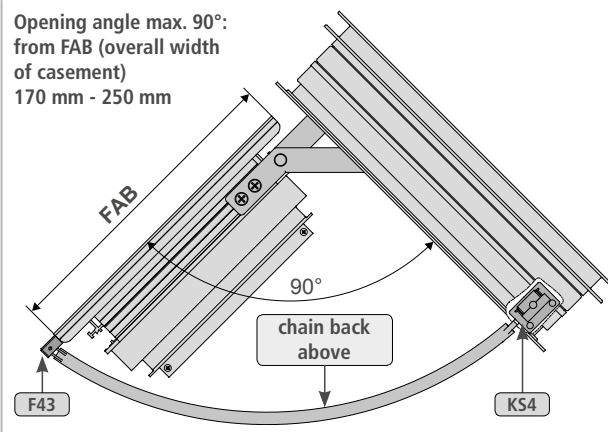


View / cut B – B



View / cut A – A

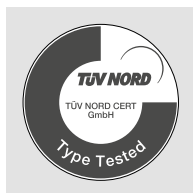
Opening angle max. 90°:
from FAB (overall width
of casement)
170 mm - 250 mm



Stroke programming

FAB	Stroke	Opening angle approx.
170	280	90°
180	305	90°
200	330	90°
225	350	90°
250	375	90°
275	400	85°
300	400	80°

The stroke is programmed: • according to the desired opening angle
• depending on the FAB



- Kit for side-hung window with a casement **opening angle ~70°**.
- The KS4 drive is pre-programmed for a **stroke of 350 mm**.
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Feedback limit position „CLOSE“ (max. 24V, 500 mA)

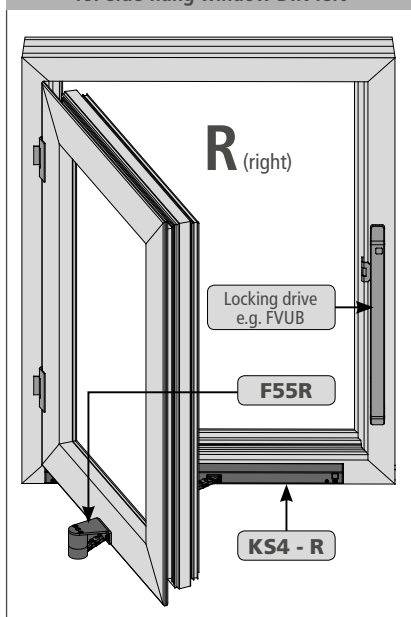
Equipment

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

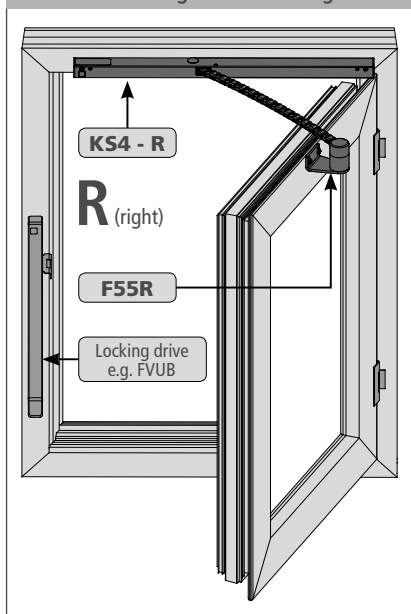
Optionen

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

Drehvolution Set 1 (KS4R and F55R)
for side-hung window DIN left



Drehvolution Set 1 (KS4R and F55R)
for side-hung window DIN right



TECHNICAL DATA

U_N	Rated voltage	24V DC (19V ... 28V)
I_N	Rated current	0,9 A
I_A	Cut-off current	1,2 A
P_N	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_Z	Pulling force max.	400 N
F_A	Pushing force max.	200 N
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 5 x 0,5 mm ² , ~ 2 m
v	Speed	$s < 350$ 8,0 mm/s 8,0 mm/s
s	Stroke max.	350 mm
L	Length	551 mm
	Feedback contact	limit position „CLOSE“ (max. 24V, 500 mA)
	Sound pressure level	≤ 70 dB (A)

- *) **FAB = to max. 1200 mm**
FAB ≤ 1000 mm use 1x Drehvolution
FAB > 1000 mm use 2x Drehvolution Set 1 + Set 2 (synchron operation)

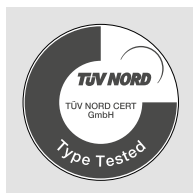
Space requirement on the frame = 26 mm

These window sizes are only recommendations.
A stable side-hung window - with an additional locking drive - is required!

- **) **FAH = to max. 2000 mm**
FAH ≤ 1200 mm use 1x Drehvolution
FAH > 1200 mm use 2x Drehvolution Set 1 + Set 2 (synchron operation)

*) **FAB = Overall width of casement**

**) **FAH = Overall height of casement**



- Kit for side-hung window with a casement **opening angle ~70°**.
- The KS4 drive is pre-programmed for a **stroke of 350 mm**.
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Feedback limit position „CLOSE“ (max. 24V, 500 mA)

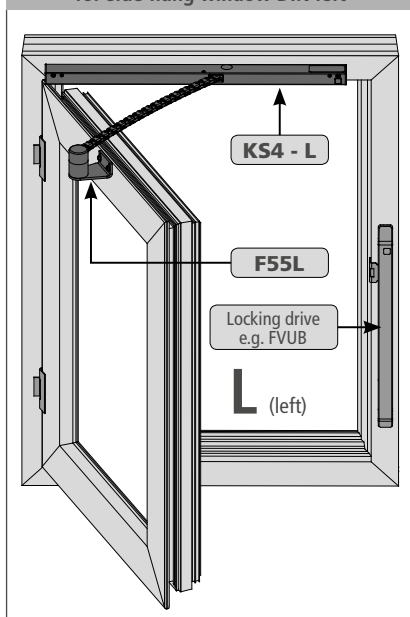
Equipment

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

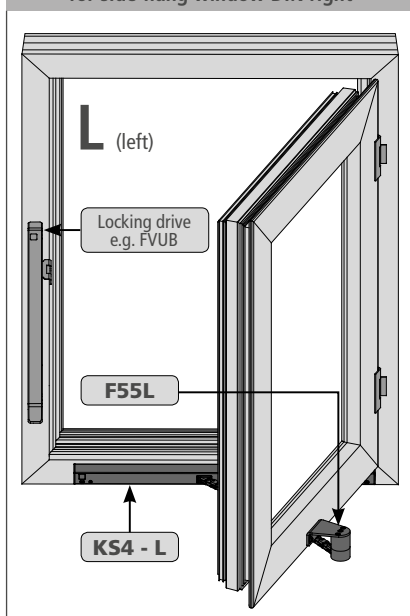
Optionen

- Programmable special functions
- Programmable feedback limit position „OPEN“ (max. 24V, 500 mA)
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

Drehvolution Set 2 (KS4L and F55L)
for side-hung window DIN left



Drehvolution Set 2 (KS4L and F55L)
for side-hung window DIN right



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_N	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_z	Pulling force max.	400 N
F_A	Pushing force max.	200 N
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 5 x 0,5 mm ² , ~ 2 m
v	Speed	$s < 350$ 8,0 mm/s 8,0 mm/s
s	Stroke max.	350 mm
L	Length	551 mm
	Feedback contact	limit position „CLOSE“ (max. 24V, 500 mA)
	Sound pressure level	≤ 70 dB (A)

- *) **FAB = to max. 1200 mm**
FAB ≤ 1000 mm use 1x Drehvolution
FAB > 1000 mm use 2x Drehvolution Set 1 + Set 2 (synchron operation)

Space requirement on the frame = 26 mm

These window sizes are only recommendations.
A stable side-hung window - with an additional locking drive - is required!

- **) **FAH = to max. 2000 mm**
FAH ≤ 1200 mm use 1x Drehvolution
FAH > 1200 mm use 2x Drehvolution Set 1 + Set 2 (synchron operation)

- *) FAB = Overall width of casement
**) FAH = Overall height of casement

ORDER DATA

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.			
350	551	Drehvolution - KS4 - Set 1 (right)	E6/C-0	1	522035			
350	551	Drehvolution - KS4 - Set 2 (left)	E6/C-0	1	520035			

OPTIONS

Painting on request

Plug solution:

AUMÜLLER-Click plug solution - 3 m – non-halogen, grey – 5 x 0,5 mm²

501251

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

Optionales Zubehör

PU/pcs.

Part.-No.

M-COM® Click Configuration module for synchronised multi-drive systems

1

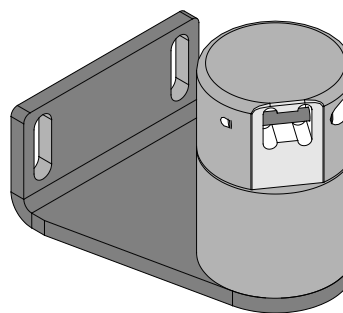
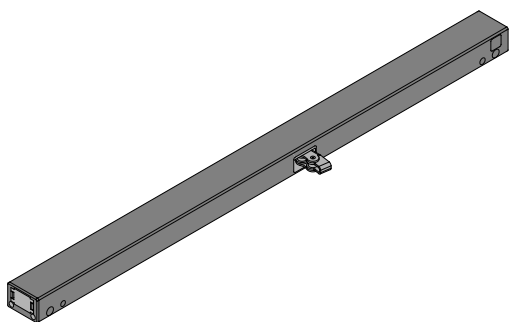
524167

M-COM Configuration module for synchronised multi-drive systems

1

524177

Scope of delivery: Drehvolution - KS4



Chain drive:
depending on the version: **KS4** 400 S12 24V DC
L (left)
R (right)
Connecting cable:
non-halogen, grey 5 x 0,5 mm², ~ 2 m

Casement bracket:
depending on the versionn: **F55**
L (left)
R (right)

OVERVIEW OF BRACKETS						1	2	3	4	5
Typical application										
Frame bracket						K134	K132	No	K133	K135
Casement bracket						F41	F42	F42	F43	F19
Space requirement		min.	[mm]			20	28	27		
Overlap thickness (*1)			[mm]			0 - 21	5 - 21	0 - 21		
Opening angle (*2)		max.	[DEG]			45	60	40		
Casement weight (*3)		max.	[Kg]			85	70	85		
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				
FAH (*4)		Solo	[mm]			250 - 1500				

LEGEND

● suitable ■ not recommended

(*1) Window sizes and opening angles may be different.

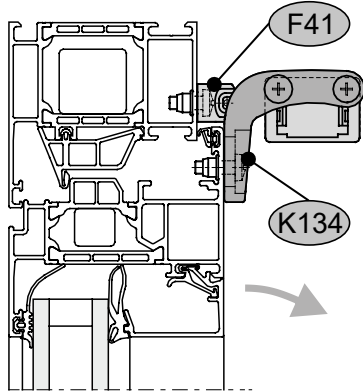
(*2) Sample values of the opening angle evaluated on the basis of FAB/FAH for inward opening windows with drives mounted at the main closing edge. For any other window heights, for outward opening windows and for windows with drives mounted at the side edges the opening angle will vary.

(*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.

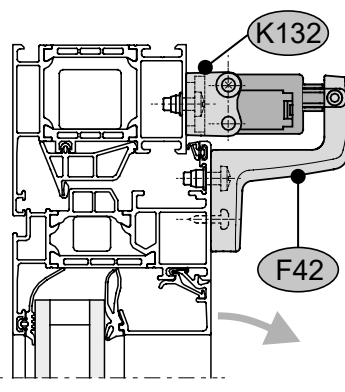
TYPICAL APPLICATIONS

- 1** FM, bottom hung
inward opening



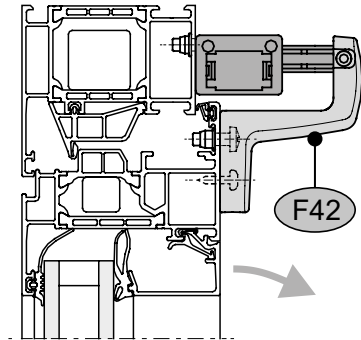
View on aluminium window

- 2** RM, bottom hung
inward opening



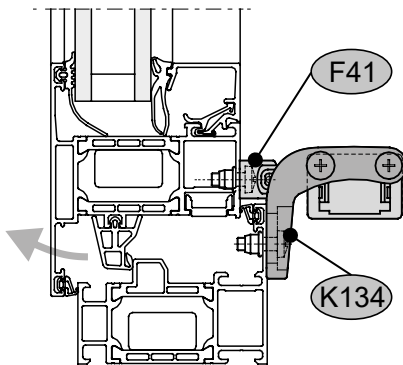
View on aluminium window

- 3** RM, bottom hung
inward opening



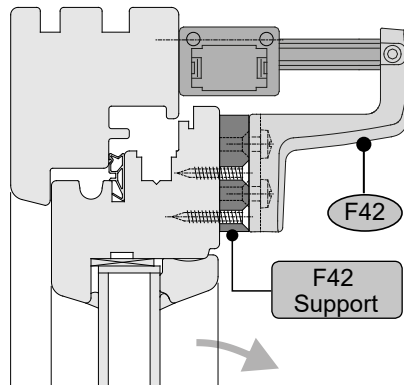
View on aluminium window

- 1** RM, top hung
outward opening

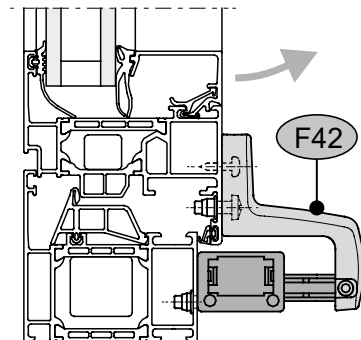


View on aluminium window

- 3** RM, bottom hung
inward opening

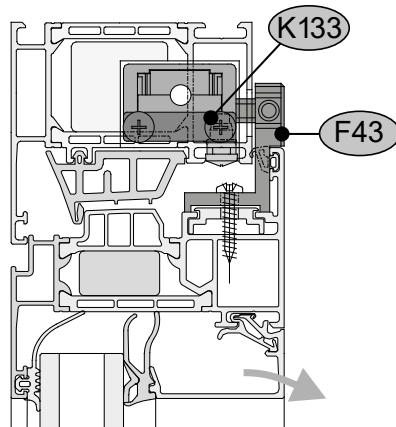


- 3** RM, top hung
inward opening



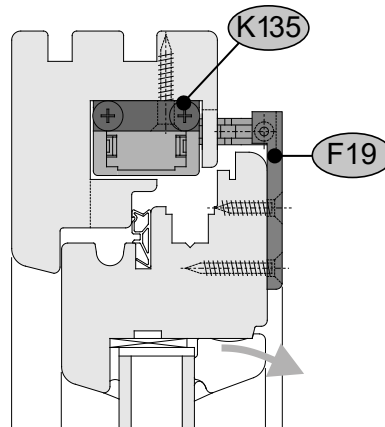
View on aluminium window

- 4** PE (profile installation) in the frame
bottom hung, inward opening



View on aluminium window

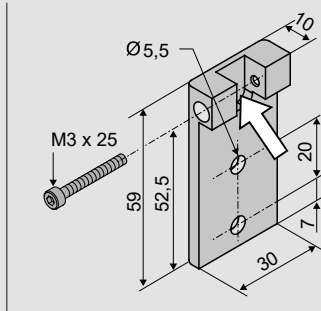
- 5** PE (profile installation) in the frame
bottom hung, inward opening



View on wood window

CASEMENT BRACKETS

F19

**Application**

Surface mounting on the casement profiles of inward opening windows, for the **profile-integrated installation** of drives **KS4** with **K135**.

Chain fixing in direction of the arrow

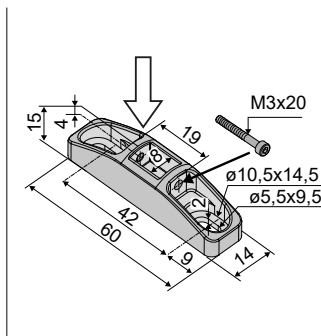
Part-No. 151419**Material / Finish**

Aluminum

Feature / Equipment

1x cylinder head screw
M3x25

F41

**Application**

Surface mounting on the casement profiles of inward opening windows, for **swivelling** fixing of drives **KS4** with **K132**, **K134**

Chain fixing in direction of the arrow

Part-No. 151440**Material / Finish**

Cast aluminum,
bright chrome

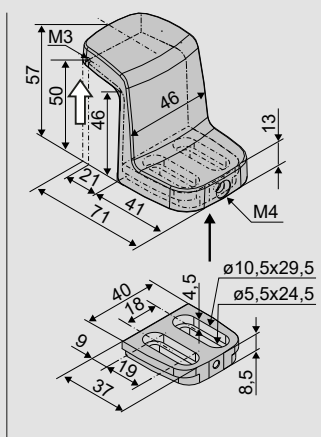
Feature / Equipment

1x screw M3x20
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 **KS4**

Chain fixing in direction of the arrow

Part-No. 151441**Material / Finish**

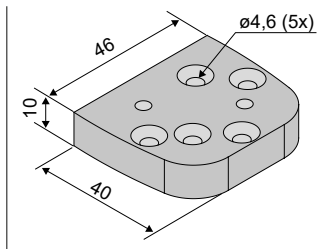
Cast aluminum,
bright chrome

Feature / Equipment

1x baseplate
1x countersunk screw
M4x10
1x screw M3x25
Drilling template

Part-No. 151446**Material / Finish**

Cast aluminum,
RAL 9006

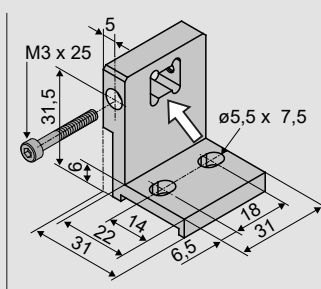
**F42-Sup-
port****Application**

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)

F43

**Application**

Surface mounting on the casement profiles of inward opening windows **Schüco AWS 57RO**, for the **profile-integrated installation** of drives **KS4** with **K133**.

Chain fixing in direction of the arrow

Part-No. 151444**Material / Finish**

Aluminum

Feature / Equipment

1x cylinder head screw
M3x25

Technical drawing of a mechanical part (Fig. 1.10) showing dimensions in millimeters. The part is a rectangular block with a central slot and two side slots. Dimensions include overall length 38, overall width 25, and various slot widths and depths.

Material / Finish
Cast aluminum,
RAL 9006

Technical drawing of a metal bracket (Fig. 1) showing dimensions and assembly instructions. The bracket has a base plate with two slots and a vertical support arm. Dimensions are given in millimeters (mm):

- Base plate width: 33.5
- Base plate depth: 18
- Base plate thickness: 10
- Support arm height: 52.5
- Support arm width: 49
- Support arm hole diameter: $\varnothing 5.5$
- Support arm hole offset from top: 13

Assembly instructions:

1. Insert the support arm into the base plate.
2. Tighten the screw (M5) to secure the assembly.

Material / Finish
Cast aluminum,
RAL 9006

Material / Finish
Stainless steel

Feature / Equipment
2x frame brackets
4x screws M5x10

Technical drawing of a rectangular block with dimensions: length 35, width 10, height 10, and a central hole with diameter 7. The block has two side holes with diameter 25.5. Four screws are shown to the right of the block.

Material / Finish
Aluminium,
vibratory grinding

Feature / Equipment
2x frame brackets
4x screws M5x16

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

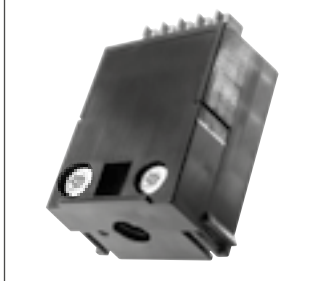
Connecting wires

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



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

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:

3 m cable length - 24 V DC

Part.-No. 501251

5 m cable length - 24 V DC

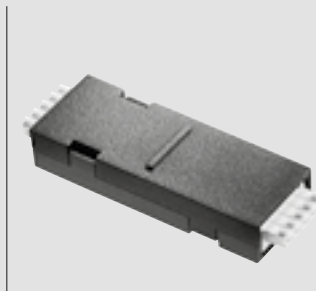
Part.-No. 501252

10 m cable length - 24 V DC

Part.-No. 501253

Connection plug

AUMÜLLER-Click KS4 Connection plug



Application

Connection plug for rigid mounting of two drives with mirrored chain outlet.

Rated voltage:

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

Dimension:

70 x 26 x 13 mm

Part.-No. 524123

Feature/Equipment

- Torsion-plug
- Replaces disturbing cables
- Creates a visually consistent image on the window - without disturbing, visible cables.

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			