



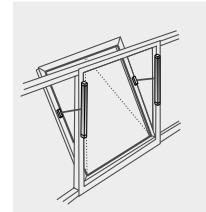
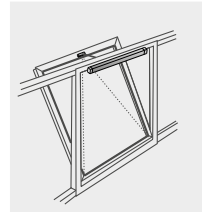
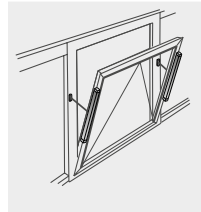
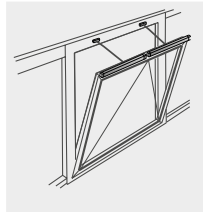
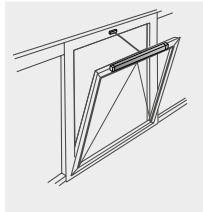
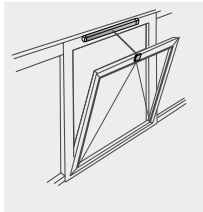
PRODUCT FEATURES KSA

- For natural ventilation, RWA 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

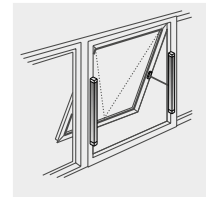
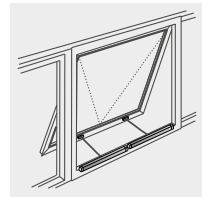
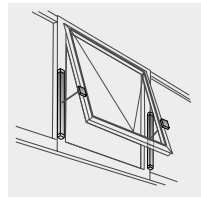
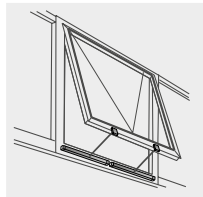
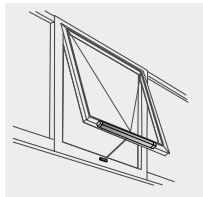
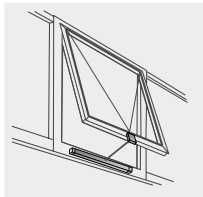
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804. The LCA results of the different product types are listed at the end of this product catalogue. The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

FACADE

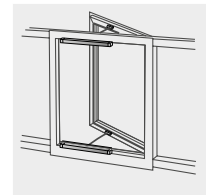
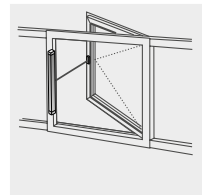
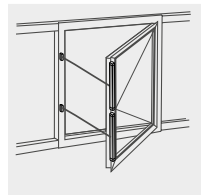
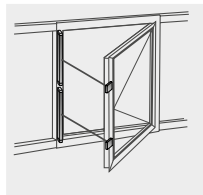
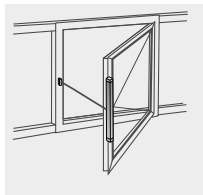
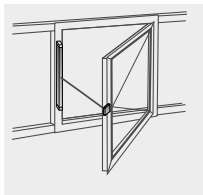
Bottom-hung



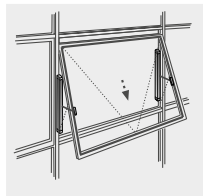
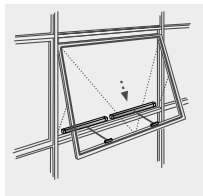
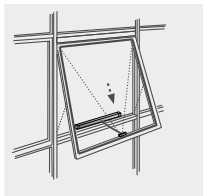
Top-hung



Side-hung



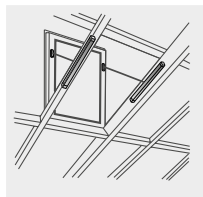
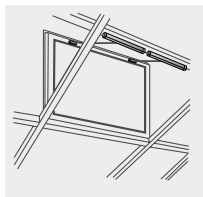
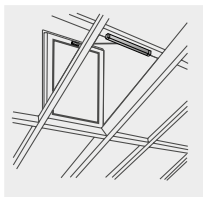
Friction hinged



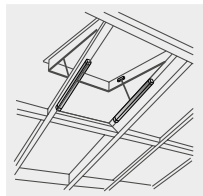
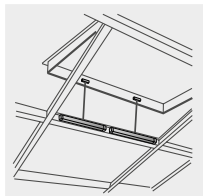
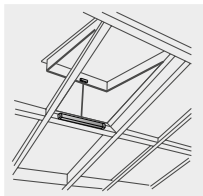
Parallel outward opening

**ROOF**

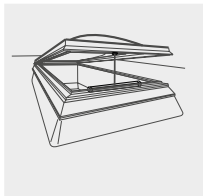
Bottom-hung



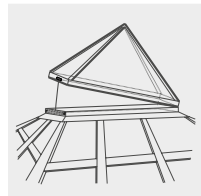
Top-hung



Sky light



Glass pyramid





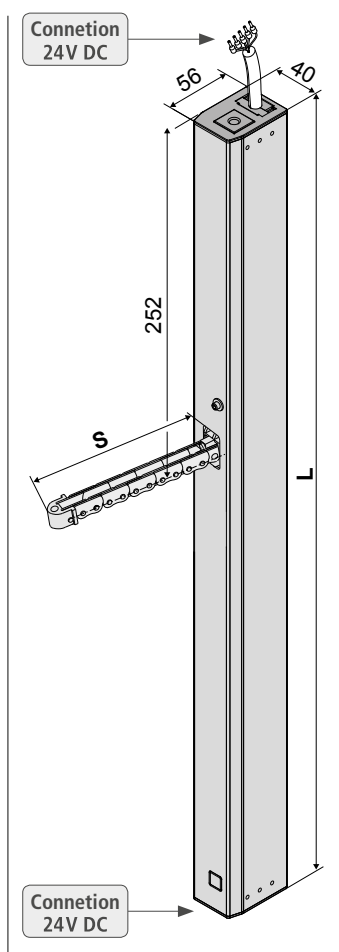
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking

Equipment

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

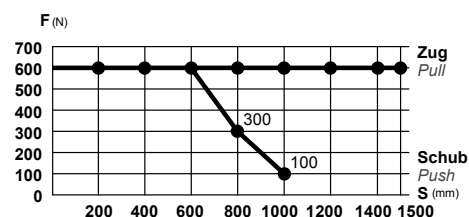
Options

- 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. | |



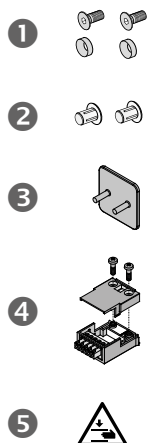
s > 800 mm only for pulling application

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

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

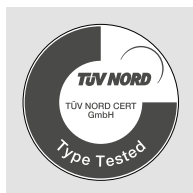
In delivery

- 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 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 | | |



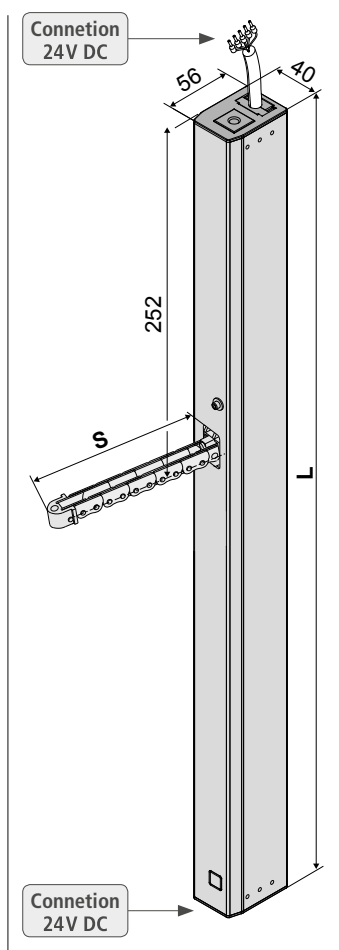
- Application: natural ventilation, RWA, ferralux®-NRWG
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24V, 500 mA)

Equipment

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

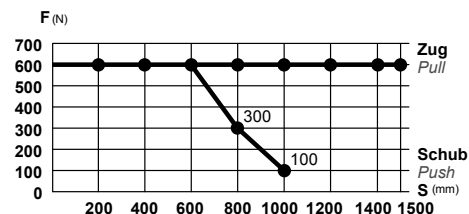
Options

- 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 (19V ... 28V) |
| 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. | |



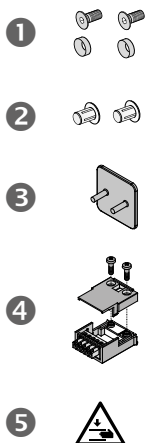
$s > 800$ mm only for pulling application

| | |
|------------------|---|
| Pullout force | 3.000 N (fastening depended) |
| Chain | stainless steel |
| Connecting cable | non-halogen, grey 5 x 0,5 mm ² , ~ 3 m |
| Speed | $s \leq 400$ 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 | 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 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 | |



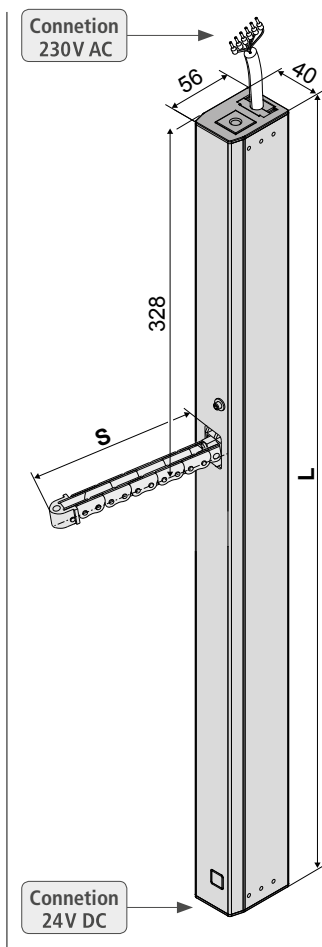
- Application: natural ventilation
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Parallel connection up to 8 drives in one group
- Additional connection of a 24V drive possible (on the 24V side)

Equipment

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

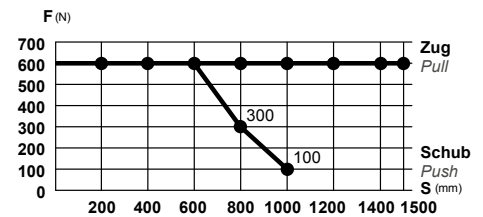
Options

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



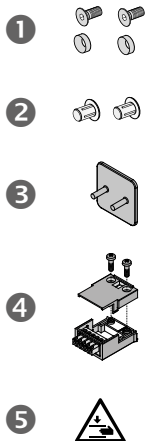
TECHNICAL DATA

| | | |
|-----------|---------------------------|---|
| 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 | \times 8,0 mm/s \rightarrow 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 | |

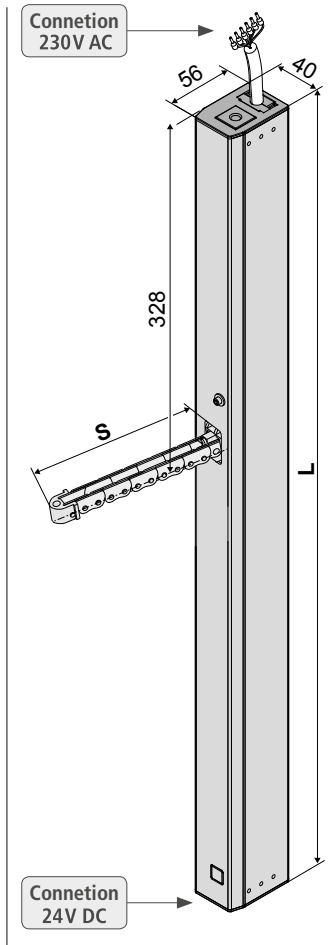
| OPTIONS | | | | | | |
|--|--|--|--|-----------|-----------|--|
| Special model | | | | PU / pcs. | Part.-No. | |
| Drive housing painted/powder coated in other RAL colours | | | | | | |
| Lump sum for coating | | | | | 516030 | |
| Specify at order stage: | | | | 1 – 20 | 516004 | |
| | | | | 21 – 50 | 516004 | |
| | | | | 51 – 100 | 516004 | |
| | | | | from 101 | 516004 | |
| Plug solution: | | | | | | |
| AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 6 x 0,75 mm ² | | | | | 501275 | |
| AUMÜLLER-Click plug solution - 10 m – non-halogen, grey – 6 x 0,75 mm ² | | | | | 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 | | | | 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
- 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)

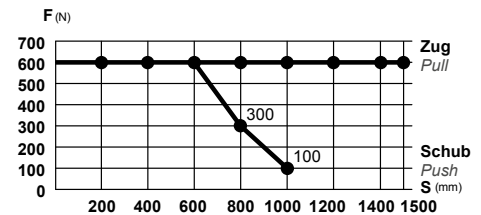
Equipment

- 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. | |

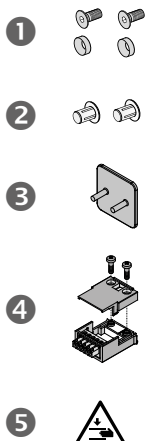


s > 800 mm only for pulling application

| | | |
|-------|----------------------|--|
| 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

- 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“

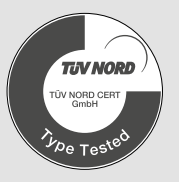


ORDER DATA

| s [mm] | L [mm] | Version | Finish | PU / pcs. | Part.-No. | | | |
|--------|--------|---------------------|--------|-----------|-----------|--|--|--|
| 250 | 591 | KSA 250 S12 230V 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

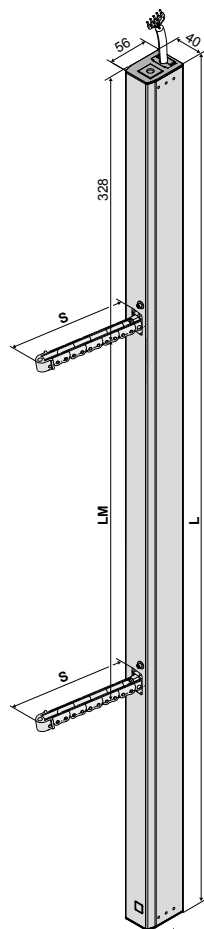
| Special model | PU / pcs. | Part.-No. | | | |
|--|-----------|-----------|--------|--|--|
| Drive housing painted/powder coated in other RAL colours | | | | | |
| Lump sum for coating | | 516030 | | | |
| Specify at order stage: | 1 – 20 | 516004 | | | |
| | 21 – 50 | 516004 | | | |
| | 51 – 100 | 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, RWA
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking

Options

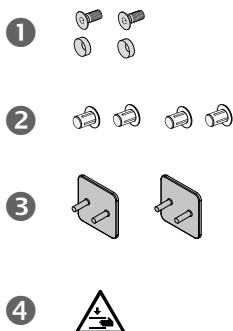
- Programmable special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



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 | 2 x 2.500 N (fastening depended) |
| | Chain | stainless steel |
| | Connecting cable | non-halogen, grey 5 x 0,5 mm ² , ~ 3 m |
| v | Speed | $s \leq 400$ 8,0 mm/s $s > 400 - 600$ 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

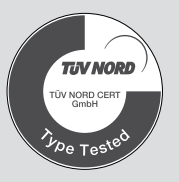
- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 4x blind plug for unused cable entry
- 2x chain unlocking key
- 1x warning sign sticker „Risk of entrapment“

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

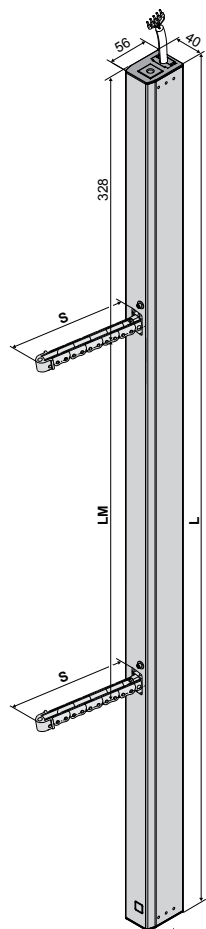
| Special model | PU/pcs. | Part.-No. | | | |
|---|----------|-----------|--|--|--|
| Drive housing painted/powder coated in other RAL colours | | | | | |
| Lump sum for coating | | 516030 | | | |
| Specify at order stage: | 1 – 20 | 516004 | | | |
| | 21 – 50 | 516004 | | | |
| | 51 – 100 | 516004 | | | |
| | from 101 | 516004 | | | |
| Plug solution: | | | | | |
| AUMÜLLER-Click plug solution - 5 m – non-halogen, grey – 5 x 0,5 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, RWA
- Internal Intelligent Control Electronics S12
- Adjustable chain tension / Mechanical chain unlocking
- Programmable feedback limit position „OPEN“ and „CLOSE“ (max. 24V, 500 mA)

Options

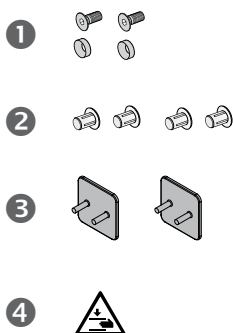
- Programmable special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



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 | 2 x 2.500 N (fastening depended) |
| | Chain | stainless steel |
| | Connecting cable | non-halogen, grey 5 x 0,5 mm ² , ~ 3 m |
| v | Speed | $s \leq 400$ 8,0 mm/s $s > 400 - 600$ 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

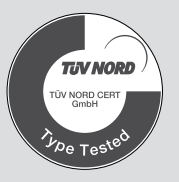
- 2x countersunk screws M8x16 and 2x Spacer ring (brass)
- 4x blind plug for unused cable entry
- 2x chain unlocking key
- 1x warning sign sticker „Risk of entrapment“

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

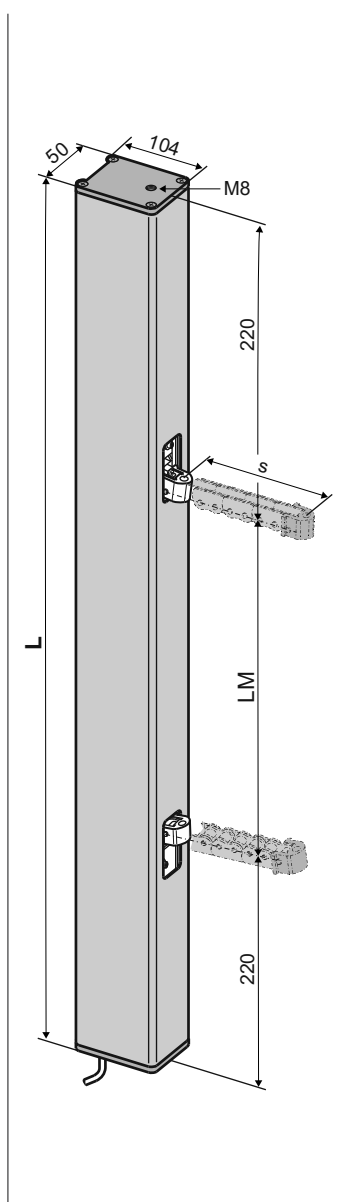
| Special model | PU/pcs. | Part.-No. | | | |
|---|----------|-----------|--|--|--|
| Drive housing painted/powder coated in other RAL colours | | | | | |
| Lump sum for coating | | 516030 | | | |
| Specify at order stage: | 1 – 20 | 516004 | | | |
| | 21 – 50 | 516004 | | | |
| | 51 – 100 | 516004 | | | |
| | 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, RWA
- Internal Intelligent Control Electronics S12

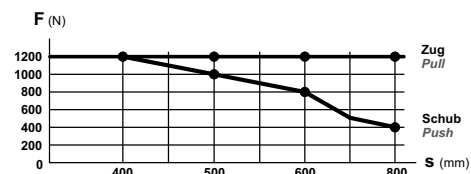
Options

- 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 | 2 x 2.500 N (fastening depended) |
| | Chain | Stainless steel |
| | Connecting cable | non-halogen, grey- 5 x 0,5 mm ² , ~ 5 m |
| v | Speed | $s \leq 400$ 8,0 mm/s $s > 400 - 600$ 12,0 mm/s $s > 600$ 13,5 mm/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.

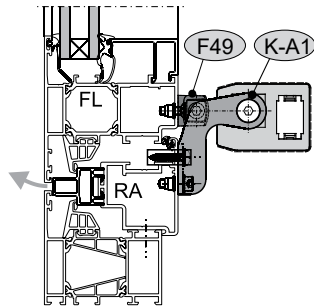
For any other window heights, for outward opening windows and for windows with drives mounted at the side edges the opening angle will vary.

*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.

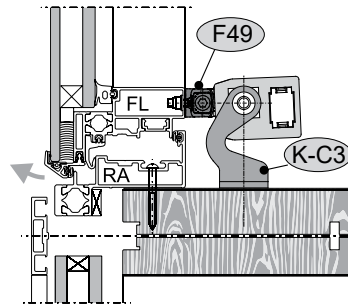
*4 Sample value of the casement dimensions for corner joints of 110 mm. The actual casement dimensions depend on length of the corner joints, profile dimensions, stroke and position of the drives.

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

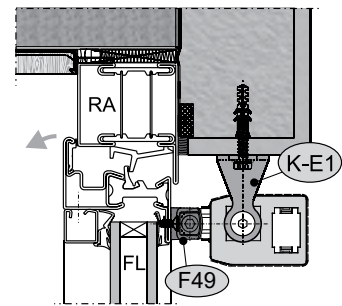
TYPICAL APPLICATIONS

1 RM, top hung, outward opening

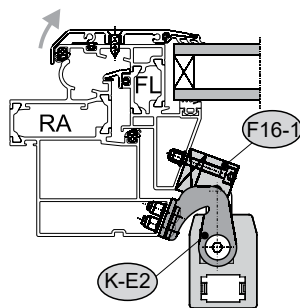
View on aluminium window

2 PR, top hung, outward opening

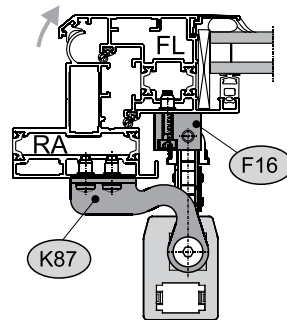
View on aluminium window

2 PR, bottom hung, outward opening

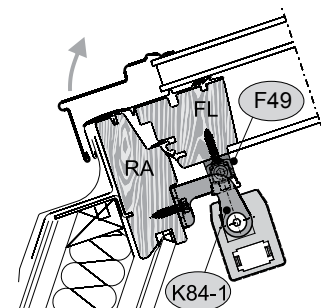
View on aluminium window

2 RM, roof

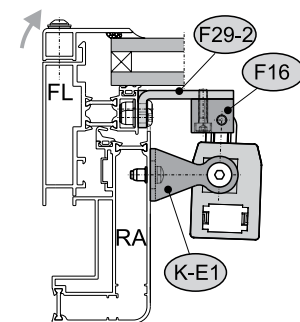
View on aluminium window

2 RM, roof

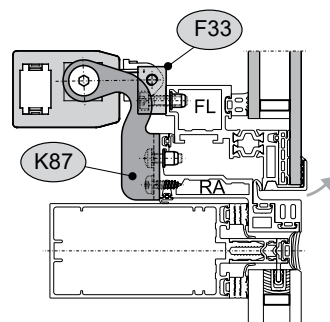
View on aluminium window

2 RM, roof

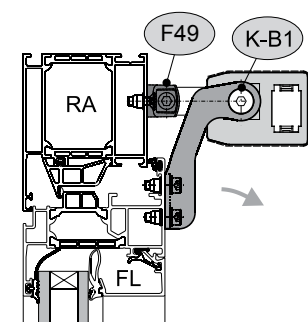
View on aluminium window

2 RM, roof

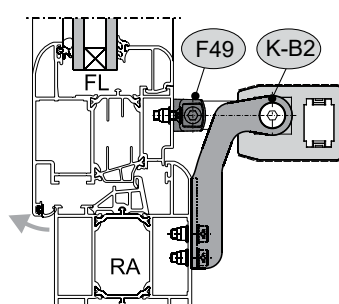
View on aluminium window

2 RM, top hung, outward opening

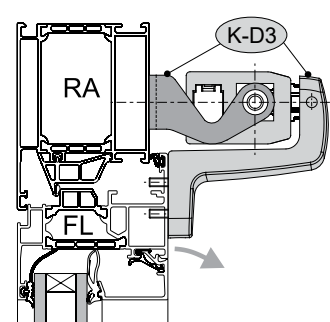
View on aluminium window

3 FM, bottom hung, inward opening

View on aluminium window

4 RM, top hung, outward opening

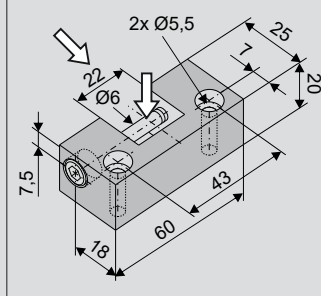
View on aluminium window

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**

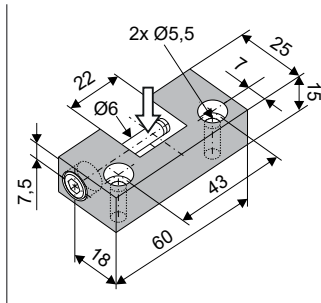
Chain fixing in direction of the arrow

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**

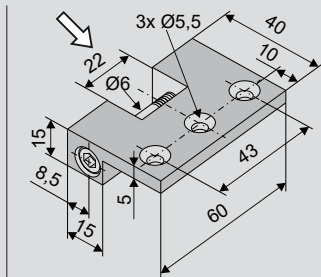
Chain fixing in direction of the arrow

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**

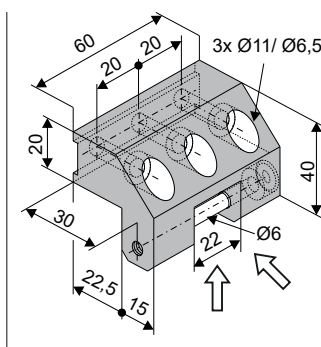
Chain fixing in direction of the arrow

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

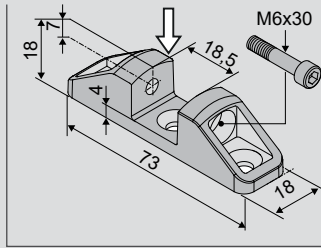
Optional accessories

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

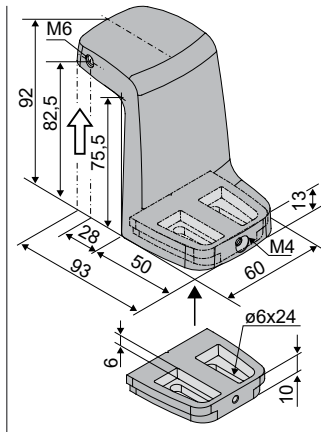
Part.-No. 524299**Material / Finish**

Cast aluminum,
RAL 9006

Feature / Equipment

1x cylinder head screw
M6x30

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**

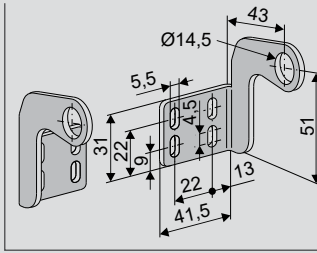
Cast aluminum,
RAL 9006

Feature / Equipment

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

FRAME BRACKETS

K-A1



Application

Surface mounting on the case-ment/window frame profiles of in-/outward opening windows, for swivelly fixing of drives **KSA** with **F16, F33, F38, F39, F49**

(Required space on frame profile **35 mm**)

Part.-No. 524057

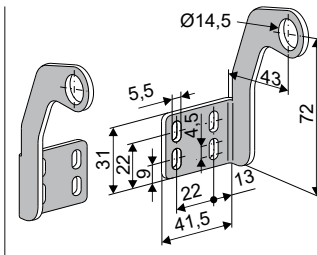
Material/Finish

Stainless steel

Feature/Equipment

1x right,
1x left

K-B1



Application

Surface mounting on the case-ment/ window frame profiles of in-/outward opening windows, for swivelling fixing of drives **KSA** with **F16, F33, F38, F39, F49**

(Required space on frame profile **35 – 52 mm**)

Part.-No. 524053

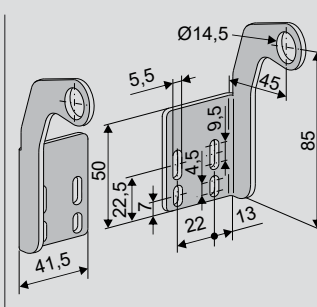
Material/Finish

Stainless steel

Feature/Equipment

1x right,
1x left

K-B2



Application

Surface mounting on the case-ment/ window frame profiles of in-/outward opening (wooden) windows, for swivelling fixing of drives **KSA** with **F16, F33, F39, F49**

(Required space on frame profile **35 – 52 mm**)

Part.-No. 524063

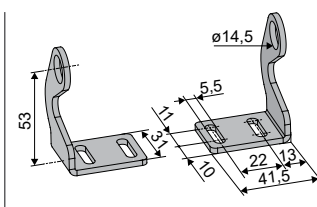
Material/Finish

Stainless steel

Feature/Equipment

1x right,
1x left

K-C3



Application

Surface mounting on the case-ment/window frame profiles or on the mullion/transom of outward opening windows, for swivelling fixing of drives **KSA** with **F16, F33, F39, F49**

Part.-No. 524067

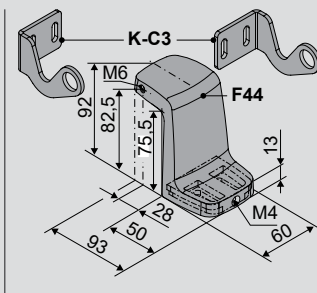
Material/Finish

Stainless steel

Feature/Equipment

1x right,
1x left

K-D3



Application

Surface mounting on the case-ment and frame profile of inward opening windows, for swivelling fixing of drives **KSA** on the frame profile (required space **50 mm**)

Part.-No. 524068

Material/Finish

Stainless steel (K-C3),
Aluminum casting (F44)

Feature/Equipment

1x K-C3,
1x F44

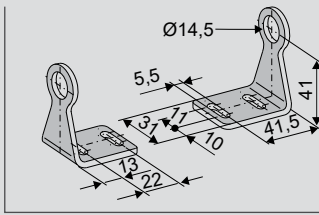
Accessories for

F44 Casement bracket „Z“

Part.-No. 524297

FRAME BRACKETS

K-E1

**Application**

Surface mounting on the mullion/transom of outward opening windows, for swiveling fixing of drives **KSA** with **F16, F33, F39, F49**

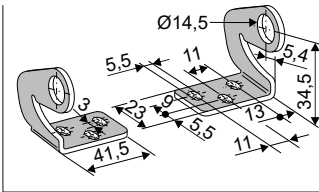
Part.-No. 524056**Material/Finish**

Stainless steel

Feature/Equipment

1x right,
1x left

K-E2

**Application**

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**

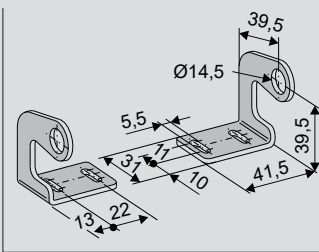
Part.-No. 524066**Material/Finish**

Stainless steel

Feature/Equipment

1x right,
1x left

K84-1

**Application**

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**

Part.-No. 524224**Material/Finish**

Stainless steel

Feature/Equipment

1x right,
1x left

F16-1



Chain fixing in direction of the arrow

Material/Finish

aluminium

(natural anodized)

Feature/Equipment

1x cylinder head screw
M6x50 with base plate

Application

Material/Finish

Stainless steel

Feature/Equipment

1x right,
1x left

K87



Part.-No. 524319

Material/Finish

Stainless steel

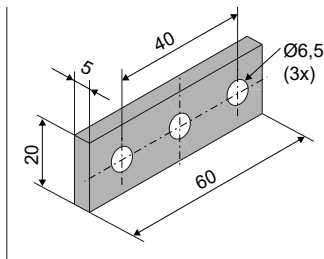
Feature/Equipment

1x right,
1x left,
incl. F33 + B3

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

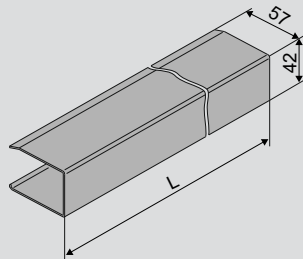
Material/Finish
aluminium
(natural anodized)

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

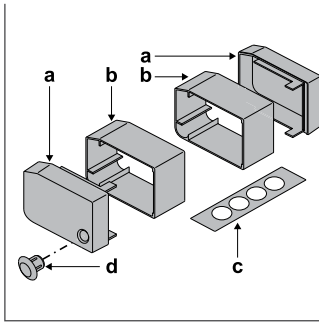
L = customized

(Price per metre)

Part.-No. 524314

only profile

Assembly-set for cover profile (grey)



Part.-No. 524300

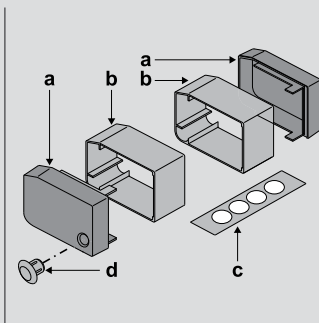
Material/Finish

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

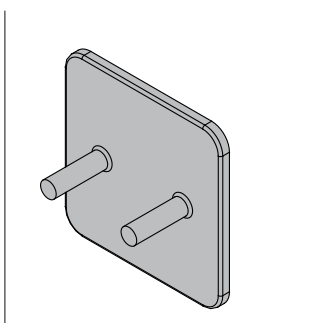
Material/Finish

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

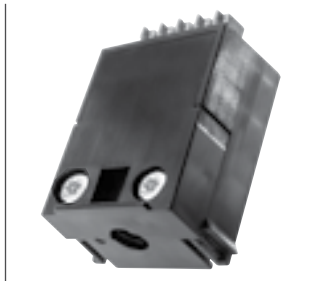
Connecting wires

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 | | | |