

Product data sheet

Slimchain



Chain drive in an attractive design with numerous possible applications in 24 V version

AREAS OF APPLICATION

- Smoke and heat extraction system and natural ventilation (24 V) in the façade area
- Can be used in exhaust air and air inlet systems
- Inward- and outward-opening windows with bottom-hung, top-hung and side-hung leaves
- Projected top hung and parallel opening windows
- Installation on wooden, PVC or metal windows
- Leaf, frame or integrated installation
- System solution in combination with the Power lock locking drive

PRODUCT FEATURES

- Can be integrated perfectly into the façade design thanks to its slim and discreet look
- Continuously adjustable drive stroke and individual speeds for ventilation and smoke and heat extraction
- Available as special version – stroke, cable length, colour and alignment configurable to left hand/right hand door
- Synchronisation of max. four drives without external control unit
- DIP switches for changing the mode of operation (Solo and Syncro, master, slave)
- Fast and easy installation with the Smart fix installation system
- IQ windowdrive - intelligent drive control
- Tested as a natural smoke and heat exhaust ventilation device (SHEV) in accordance with EN 12101-2

TECHNICAL DATA

| | |
|----------------------------------|---|
| Productname | Slimchain |
| Dimensions | 25 x 44 mm |
| Space needed on frame (min.) | Frame installation inward-opening: 40 mm, leaf installation inward-opening: 16/21 mm, frame installation outward-opening: 31 mm |
| Space requirement on leaf (min.) | Frame installation inward-opening: 40 mm, leaf installation inward-opening: 34/29 mm, frame installation outward-opening: 19 mm |
| Opening speed RWA | 15 mm/s |
| Opening speed ventilation | 5 mm/s |
| Closing speed (max.) | 5 mm/s |
| Force of pressure (max.) | 100 N (depending on stroke), see force-path chart |
| Locking force (max.) | 2000 N |
| Tensile force | 300 N |
| Leaf weight | 200 kg* |
| Overlap area | 0 - 23 mm (depending on the application and bracket set) |
| Voltage at operation | 24 V ± 25 % |



| | |
|--|--|
| Operating voltage | 24 V DC |
| Current consumption | 1.1 A |
| Current consumption according to area of application | Ventilation (24 V): 0.9 A; RWA (18 V): 1.1 A |
| Power consumption | 22 W |
| Duty rating | 30 % |
| Special length of connector cable | 5 m, 7.5 m |
| Min. core cross section | 0.75 mm ² |
| Number of cores | 4 cores |
| Service temperature | -5 - 70 °C |
| IP rating | IP40 |
| protection rating | III |
| Syncro function | Yes |
| Adjustable opening speed (ventilation) | Yes |
| Additional locking available | Yes |
| Type of additional locking mechanism | Locking drive |
| Type of stroke shortening | Synchronising unit, Factory setting |
| End position cut-off extended | electronic, via internal path sensor |
| End position cut-off retracted | electronically via current consumption |
| Overload cut-off | Yes |
| Complete opening within 60 s | yes, including locking drive |
| NSHEV tested | Yes |
| NSHEV additional information | yes, including locking drive |
| Number synchronisation drive units | 4 |
| KNX ability | Yes |
| Bottom-hung window INWARD-opening frame installation | Yes |
| Bottom-hung window inward opening leaf installation | Yes |
| Bottom-hung window OUTWARD-opening frame installation | Yes |
| Side-hung window INWARD-opening frame installation | Yes |
| Side-hung window INWARD-opening door leaf installation | Yes |
| Side-hung window OUTWARD-opening frame installation | Yes |
| Top-hung window INWARD-opening frame installation | Yes |
| Top-hung window OUTWARD-opening frame installation | Yes |
| Projected top-hung window OUTWARD-opening frame installation | Yes |
| Parallel-opening window OUTWARD-opening frame installation | Yes |

NETWORKING



VARIANTS / ORDER INFO

| Designation | Description | Ident-No. | Colour | Stroke |
|-----------------------------|--|-----------|------------------|--------|
| Slimchain L | | 147046 | white RAL 9016 | 500 mm |
| Slimchain R | | 147030 | EV1 | 300 mm |
| Slimchain - special version | Can be configured: Stroke, cable length, colour, version L/R | 147070 | according to RAL | |
| Slimchain L | | 147056 | white RAL 9016 | 800 mm |
| Slimchain R | | 147031 | white RAL 9016 | 300 mm |
| Slimchain R | | 147051 | white RAL 9016 | 800 mm |
| Slimchain R | | 147041 | white RAL 9016 | 500 mm |
| Slimchain R | | 147040 | EV1 | 500 mm |
| Slimchain L | | 147036 | white RAL 9016 | 300 mm |
| Slimchain L | | 147045 | EV1 | 500 mm |
| Slimchain R | | 147050 | EV1 | 800 mm |
| Slimchain L | | 147055 | EV1 | 800 mm |
| Slimchain L | | 147035 | EV1 | 300 mm |

ACCESSORIES

IQ BOX KNX

Interface module for connecting the Slimchain, Powerchain and E 250 NT window drives in the KNX building bus



| Designation | Description | Ident-No. | Dimensions | Type of installation | IP rating |
|-------------|---|-----------|-----------------|---|-----------|
| IQ box KNX | Top hat rail variant (space requirement 18 mm/1 horizontal pitch). One IQ box KNX is required for each window (also for Syncro applications and with locking drives). | 164437 | 18 x 98 x 62 mm | Surface-mounted, Flush-mounted installation | IP20 |
| IQ box KNX | Flush-mounted variant. One IQ box KNX is required for each window (also for Syncro applications and with locking drives). | 164443 | 50 x 45 x 19 mm | Surface-mounted, Flush-mounted installation | IP20 |

CHOICE OF BRACKETS FOR SLIMCHAIN

Special version can be configured in terms of opening type and colour



| Designation | Description | Ident-No. | Colour |
|---------------------------------------|--|-----------|------------------|
| Bracket set Slimchain special version | Can be configured: Type of opening, colour | 147071 | according to RAL |

BRACKET SET A SLIMCHAIN

For bottom-hung, side-hung and top-hung windows



| Designation | Description | Ident-No. | Colour |
|-------------------------|--|-----------|----------------|
| Bracket set A Slimchain | For bottom-hung, side-hung and top-hung windows, frame installation INWARD OPENING | 147061 | white RAL 9016 |
| Bracket set A Slimchain | For bottom-hung, side-hung and top-hung windows, frame installation INWARD OPENING | 147060 | black |

BRACKET SET B SLIMCHAIN

For bottom-hung, side-hung and top-hung windows



| Designation | Description | Ident-No. | Colour |
|-------------------------|--|-----------|----------------|
| Bracket set B Slimchain | For bottom-hung, side-hung and top-hung windows, leaf installation INWARD OPENING and frame installation OUTWARD OPENING | 147063 | white RAL 9016 |
| Bracket set B Slimchain | For bottom-hung, side-hung and top-hung windows, leaf installation INWARD OPENING and frame installation OUTWARD OPENING | 147062 | black |

BRACKET SET C SLIMCHAIN

For bottom-hung and side-hung windows



| Designation | Description | Ident-No. | Colour |
|-------------------------|---|-----------|-----------------|
| Bracket set C Slimchain | For bottom-hung and side-hung windows, frame installation integrated INWARD OPENING | 155878 | silver-coloured |

BRACKET SET P SLIMCHAIN

For parallel-opening windows and projected top hung windows



| Designation | Description | Ident-No. | Colour |
|---------------------------|--|-----------|------------------|
| Bracket set P Slimchain * | For parallel opening windows (PAF), frame installation OUTWARD OPENING | 164397 | according to RAL |
| Bracket set P Slimchain | For parallel opening windows (PAF), frame installation OUTWARD OPENING | 164396 | white RAL 9016 |
| Bracket set P Slimchain | For parallel opening windows (PAF), frame installation OUTWARD OPENING | 164394 | black |

SAFETY SCISSORS NO. 35

For protection of bottom-hung leaves



| Designation | Description | Ident-No. | Colour | Leaf weight (max.) |
|------------------------|--|-----------|------------|--------------------|
| Safety scissors no. 35 | Fix pack available from stock (10 pieces), minimum leaf height 300mm | 014499 | Galvanised | 270 kg |

SAFETY SCISSORS NO. 60

For protection of bottom-hung leaves



| Designation | Description | Ident-No. | Colour | Leaf weight (max.) |
|------------------------|--|-----------|------------|--------------------|
| Safety scissors no. 60 | Fix pack available from stock (10 pieces), minimum leaf height 700mm | 133814 | Galvanised | 240 kg |

SERVICE CASE IQ WINDOWDRIVE

For commissioning and parameter setting of the window drives from the IQ windowdrive range



| Designation | Description | Ident-No. | Colour | Supply voltage | Output current (max.) |
|----------------------------------|---|-----------|-----------------|----------------|-----------------------|
| Service case GEZE IQ windowdrive | for commissioning of 24 V window drives and for parameter setting of the IQ windowdrive drives in combination with the ST 220 | 142586 | silver-coloured | 100 - 240 V AC | 5.5 A |

POWER SUPPLY NT 1.1 A-24 V UP *

24 V power supply unit for flush-mounted installation



| Designation | Description | Ident-No. | Colour | Supply voltage | Dimensions |
|---------------------------------|--------------------------------------|-----------|--------|----------------|-----------------|
| Power supply NT 1.1 A-24 V UP * | Installation in flush-mounted socket | 151426 | black | 230 V AC | 54 x 54 x 32 mm |

IQ GEAR *

Interface for activation of the Slimchain, Powerchain and E 250 NT window drives in ventilation mode



| Designation | Description | Ident-No. | Operating voltage |
|-------------|--|-----------|-------------------|
| IQ gear * | Interface for activation of the Slimchain, Powerchain and E 250 NT window drives in ventilation mode | 151959 | 24 V DC |

IQ BOX SAFETY *

Safety module for protecting hazardous areas of power-operated windows



NT 2.5 A-24 V SM DIR POWER SUPPLY *

24 V power supply for surface-mounted installation with integrated direction control/polarity reversal



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|-------------------------------------|--|-----------|--------|------------------|-------------------|
| NT 2.5 A-24 V SM DIR power supply * | Output voltage 24 V DC W x H x D: 200 x 50 x 25 mm Surface-mounted installation With integrated direction control/polarity reversal | 195293 | grey | 200 x 50 x 25 mm | 230 V AC |

DRIP LOOP *

Concealed cable transition for power supply of the window drives



| Designation | Description | Ident-No. | Colour | Operating voltage | IP rating |
|-------------------|-----------------------------------|-----------|--------|-------------------|-----------|
| Drip loop 4m/6m * | for power supply to window drives | 193863 | grey | 48 V DC | IP67 |
| Drip loop 2m/3m * | for power supply to window drives | 193287 | grey | 48 V DC | IP67 |

OPEN/CLOSE WINDOW CONTROL *

Open/Close window controller for simple ventilation control



| Designation | Description | Ident-No. | Dimensions | Operating voltage | Type of installation |
|---|---|-----------|-------------------|-------------------|----------------------------|
| OPEN/CLOSE window control unit 24 V - HS * | Control unit (individual, group, central, time) for 24 V window drives for installation on a top hat rail. Output current max. 8 A | 163812 | 18 x 88 x 58 mm | 24 V | Top hat rail mounting |
| OPEN/CLOSE window control unit 24 V - UP * | Control unit (individual, group, central, time) for 24 V window drives for installation in a flush-mounted box. Output current max. 8 A | 163813 | 43 x 43 x 18.5 mm | 24 V | Flush-mounted installation |
| OPEN/CLOSE window control unit 230 V - HS * | Control unit (individual, group, central, time) for 230 V window drives for installation on a top hat rail. Output current max. 10 A | 163814 | 18 x 88 x 58 mm | 230 V | Top hat rail mounting |
| OPEN/CLOSE window control unit 230 V - UP * | Control unit (individual, group, central, time) for 230 V window drives for installation in a flush-mounted box. Output current max. 10 A | 163815 | 43 x 43 x 18.5 mm | 230 V | |
| OPEN/CLOSE universal window control 230 V AC - TOP HAT RAIL * | Control unit (individual, group, central, time) with potential-free inputs for 230 V window drives for installation on a top hat rail. Output current max. 10 A | 163816 | 18 x 88 x 58 mm | 230 V | Top hat rail mounting |

GEZE POWER SUPPLY NT 1.5A-24V HS *

24 V power supply for top hat rail mounting



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|---------------------------------|--|-----------|--------|-----------------|-------------------|
| Power supply NT 1.5 A-24 V HS * | Output voltage 24 V DC / W x H x D: 35 x 90 x 58 mm / Installation on top hat rail, 2 horizontal pitches | 151425 | black | 35 x 90 x 58 mm | 230 V AC |

POWER SUPPLY NT 2.5 A-24 V HS *

24 V power supply for top hat rail mounting



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|---------------------------------|--|-----------|--------|-----------------|-------------------|
| Power supply NT 2.5 A-24 V HS * | Output voltage 24 V DC / W x H x D: 52 x 90 x 58 mm / Installation on top hat rail, 3 horizontal pitches | 151424 | black | 52 x 90 x 58 mm | 230 V |

POWER SUPPLY NT 6.25 A-24 V HS *

24 V power supply for top hat rail mounting



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|----------------------------------|--|-----------|--------|-------------------|-------------------|
| Power supply NT 6.25 A-24 V HS * | Output voltage 24 V DC W x H x D: 72 x 95 x 66.5 mm / Installation on top hat rail, 4 horizontal pitches | 192113 | grey | 72 x 95 x 66.5 mm | 230 V DC +/- 10% |

WRM-24

Receiving module for activating automatic doors and window drives with 24 V DC



| Designation | Description | Ident-No. | Colour | Dimensions | Output |
|-------------------------|---|-----------|--------|----------------------|---------------------------------|
| WRM-24 receiving module | 52 x 47 x 23 mm (W x H x D), for installation in a standard flush-mounted socket / 24 V DC operating voltage, pulsed operation or pulsed and continuous operation | 131213 | black | 52 x 52 x 47 x 23 mm | 2 potential-free relay contacts |

WRM-24B

Receiving module for activating automatic doors and window drives with 24 V DC



| Designation | Description | Ident-No. | Colour | Dimensions | Output |
|--------------------------|--|-----------|--------|------------------------|---------------------------------|
| WRM-24B receiving module | 130 x 80 x 35 mm (W x H x D), for surface mounting with protection class IP54 / 24 V DC operating voltage, pulsed operation or pulsed and continuous operation | 131214 | white | 130 x 130 x 80 x 35 mm | 2 potential-free relay contacts |

WTH

Remote control for activating GEZE automatic doors and window drives via the GEZE wireless programme



| Designation | Description | Ident-No. | Dimensions | Operating voltage | Type of installation |
|--------------------------------|-------------------------------------|-----------|-----------------|-------------------|----------------------|
| WTH-2 remote control 2 channel | with wall fixing and IP rating IP54 | 131210 | 78 x 51 x 15 mm | 12 V DC | Wall |
| WTH-4 remote control 4 channel | with wall fixing and IP rating IP54 | 131211 | 78 x 51 x 15 mm | 12 V DC | Wall |
| WTH-1 remote control 1 channel | with wall fixing and IP rating IP54 | 131209 | 78 x 51 x 15 mm | 12 V DC | Wall |

WTM

Transmitting module for activating GEZE automatic doors and window drives via the GEZE wireless programme



| Designation | Description | Ident-No. | Dimensions | Operating voltage | Type of installation |
|-------------------------|--|-----------|-----------------|-------------------|----------------------|
| WTM transmitting module | 44 x 30 x 11 mm (W x H x D), for optional integration in push button | 131212 | 44 x 30 x 11 mm | 3 V DC | Integrated |

SURFACE-MOUNTED HOUSING *

Housing for surface mounting of top hat rail components such as power supply units or control units



| Designation | Description | Ident-No. | Colour | Dimensions | IP rating |
|---------------------------|--|-----------|--------|-------------------|-----------|
| Surface-mounted housing * | Size: W x H x D = 193 x 130 x 82 mm. For electronic top hat rail components, e.g. power supply units | 152010 | white | 193 x 130 x 82 mm | IP40 |

LTA-24-AZ

Vent switch with control keys OPEN / CLOSE and LED function display



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|-----------------------|---|-----------|--------------|------------|-------------------|
| LTA-24-AZ vent switch | with control keys "open-close" and LED function display | 129393 | alpine white | 80 x 80 mm | 24 V DC |

LTA-LSA *

Vent switch with rotary knob for OPEN / CLOSE



| Designation | Description | Ident-No. | Colour | Dimensions | Type of installation |
|-----------------------|--|-----------|--------------|------------|----------------------------|
| LTA-LSA vent switch * | with rotary knob, can be used as "open-close" vent switch or stay-put as vent switch "open-stop-close" | 118476 | alpine white | 80 x 80 mm | Flush-mounted installation |

POWER LOCK

Locking drive in combination with Slimchain, Powerchain or E 250 NT



| Designation | Description | Ident-No. | Colour | Stroke | Dimensions |
|--------------------------------|---|-----------|------------------|--------|------------|
| Power lock * | max. locking stroke 24 mm | 147021 | white RAL 9016 | | 34 x 36 mm |
| Power lock – special version * | Can be configured: Cable length, colour | 147022 | according to RAL | 22 mm | 34 x 36 mm |
| Power lock | max. locking stroke 24 mm | 147020 | EV1 | | 34 x 36 mm |

ST 220

Service terminal for the wireless and wired parameter setting of GEZE door and window products



| Designation | Description | Ident-No. | Colour | Dimensions | Operating voltage |
|-------------------------|---|-----------|--------|------------------|-------------------|
| Service terminal ST 220 | For parameter setting and diagnosis for TZ 320, TE 220, automatic door systems, drives from the IQ windowdrive series and THZ N4, THZ Comfort N4, battery operation with 4x AAA cells (not supplied by GEZE), plain text display on illuminated panel, keypad for operation / Parameter changes to GEZE systems may only be carried out by experts who have been authorised by the manufacturer | 087261 | blue | 80 x 125 x 37 mm | 24 V |

* The products designated above may vary in form, type, characteristics, function, or availability depending on the country. Please get in touch with your GEZE contact person if you have any questions.