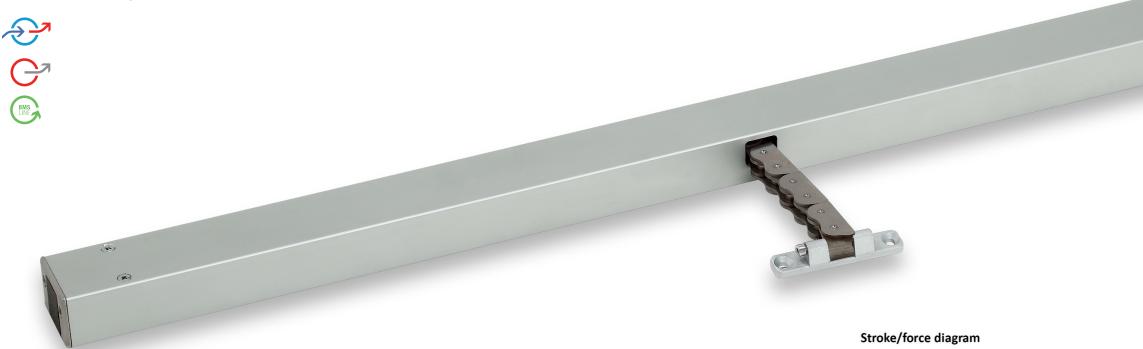
NANO

Chain actuator - Force in push action 400 N - Maximum stroke 800 mm



• Soft stop in close and fully open position

case of obstacle detected

• Reduction of entrapment risk: stop and reverse action in

• Cable connection on both sides (Synchro versions)

MAIN FEATURES

- The highest performance (400 N) in the smallest case (24 x 35 mm)
- Very silent operation
- Chain in double stainless steel links.
- Aluminum extrusion
- Electronic stop in the intermediate positions in case of overload.
- The SYNCHRO NANO versions are equipped with an integrated speed synchronization control board for the installation of more than one actuator on the same vent, avoiding any external control panel (max 4 actuators + E-Lock).
 SYNCHRO NANO versions provide also open/close feedback.
- The SYNCHRO NANO F-SIGNAL versions provide free potential opening and closing feedback signal (maintained contact), activated by the current limit.
- NANO DC is provided with 1,5 m cable (no synchronization, feedback signal and speed selection).
- Suitable for installation with the additional locking device E-LOCK: NANO DC with E-LOCK Standard, SYNCHRO NANO with E-LOCK BMS (for easier wiring and sequence operation).
- Suitable for drawbridge application (Synchro versions).

OTHER VERSIONS UPON REQUEST:

- NANO versions with IP42 protection class, for a higher resistance against atmospheric agents.
- CNUS Versions for USA and Canada.

INSTALLATION REMARKS

- In case of vents with four-bar hinges, please contact our Technical Dept.
- If installed on PVC windows, the profile has to be reinforced.
- In case of Building Management System control, avoid repetitive commands in the same direction.

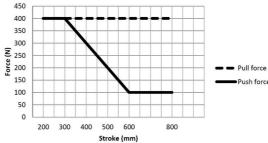
For further information contact our Tech. Dept.

| 7 | Suitable for installation on Smoke and Heat Exhaust Ventilators (SHEV) |
|---|--|
| | in conformity to European Standard |
| | EN 12101-2 (pending test). |



The BMSline version is fully programmable (stroke, speed, force, ...); different scenarios are selectable with a connection to a computer throught dedicated software. See BMSline section.

NOTE: brackets, not included - to be ordered separately



800 mm stroke only for bottom hinged windows.

*Must be considered as a temporary load only, both in push and in pull. **Silent operation: opening speed depending on stroke (minimum speed to complete the opening within 60 s). ***Installation with side bracket kit.

Synchro versions can provide Silent Ventilation (slower Part No. for DC VERSIONS

| MODEL | SYNCHRO | FEEDBACK | CABLE | COLOUR | PART No. (Stroke) | | |
|--------------------------|---------|------------------------------|-----------------------------------|--|--|--|--|
| NANO DC | - | - | 1,5 m 2 wires | SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 | 200 mm 41944Z 41945A 41946B 500 mm 41953I 41954J 41955K | 300 mm 41947C 41948D 41949E 600 mm 41956L 41957M 41958N | 400 mm 41950F 41951G 41952H 800 mm 41959O 41960P 41961Q |
| SYNCHRO NANO DC | Yes | open/close | not provided, order separately | SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 | 200 mm 41962R 41963S 41964T 500 mm 41971A 41972B 41973C | 300 mm 41965U 41966V 41967W 600 mm 41974D 41975E 41976F | 400 mm 41968X 41969Y 41970Z 800 mm 41977G 41978H 41979I |
| SYNCHRO NANO DC F-SIGNAL | Yes | free potential open/close | not provided, order separately | SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 | 200 mm 41980J 41981K 41982L 500 mm 41989S 41990T 41991U | 300 mm 41983M 41984N 41985O 600 mm 41992V 41993W 41994X | 400 mm 41986P 41987Q 41988R 800 mm 41995Y 41996Z 41997A |

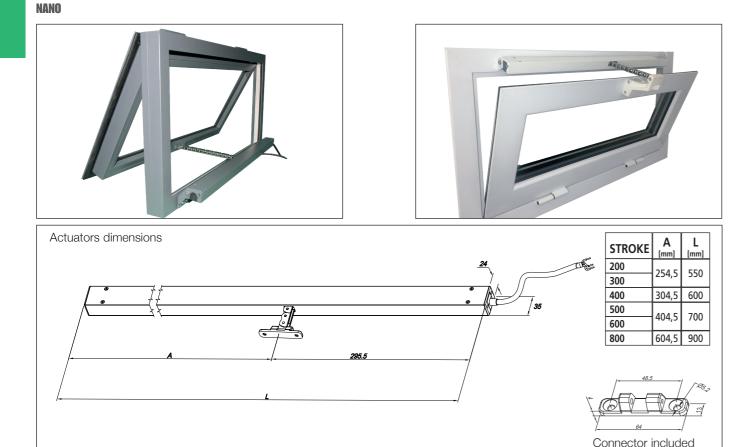
12 GREEN LINE

THE SOLUTION FOR INTEGRATION INTO THE WINDOW PROFILES

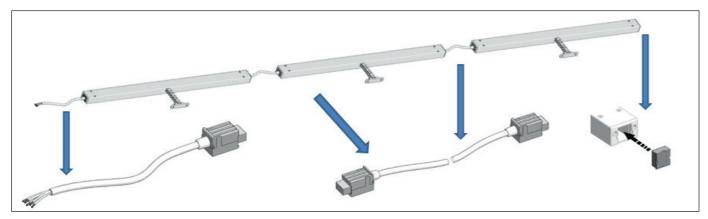
TECHNICAL DATA

| | DC VERSION | | |
|-------------------------------|--------------------|--|--|
| VOLTAGE SUPPLY | 24 Vdc ± 15% | | |
| CURRENT ABSORPTION (max load) | 1.2 A | | |
| OPERATION | polarity inversion | | |
| MAX FORCE | 400 N* | | |
| OPENING SPEED | 4 - 14 mm/s** | | |
| CLOSING SPEED | 4 mm/s | | |
| LOCKING FORCE | 1900 N*** | | |
| DUTY CYCLE | 30% | | |
| PARALLEL CONNECTION | Yes | | |
| LIMIT STOP | Electronic | | |
| SAFETY STOP | Electronic | | |
| PROTECTION CLASS | IP40 | | |

Synchro versions can provide Silent Ventilation (slower speed) activated by UCS C-SV Smoke Ventilation Control Panels.

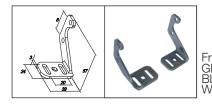


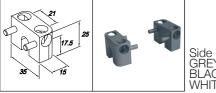
Accessories - Electrical connectors and cables

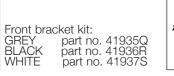


Electrical Connector with 1,5 m cable (white) for SYNCHRO NANO DC 42016T 42017U Electrical Connector with 1,5 m cable (black) for SYNCHRO NANO DC 42018V Cable with 2 connectors (1m, white) for installations of 2 x SYNCHRO NANO DC actuators. 42019W Cable with 2 connectors (1m, black) for installations of 2 x SYNCHRO NANO DC actuators.

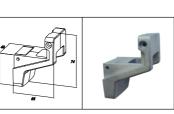
Accessories - Brackets











20 *2*2

39

Aluminum bracket for bottom hinged windows: GREY part no BLACK part no WHITE part no part no. 41941W part no. 41942X part no. 41943Y

part no. 41932N part no. 419330

part no. 41934P

Back bracket kit: GREY part no BLACK part no

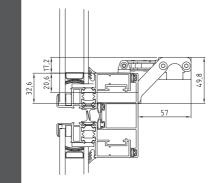
WHITE

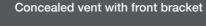
Installation examples

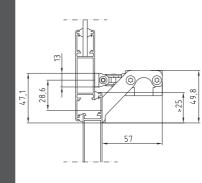


uators

Parallel







With front brackets

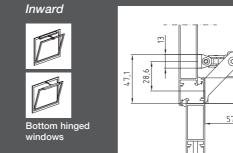
25 57 Side hinge On the vent with front brackets

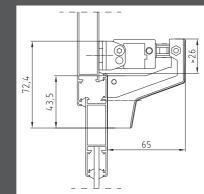
A The instructions for a safe installation are included in the section "SECURITY WARNINGS"

SPECIFICATION PROSPECTS

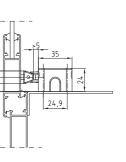
Electric chain actuator Ultraflex Control Systems named Nano DC with chain in double stainless steel links. High performance (400 N) in very small case (24 x 35 mm). Voltage supply: 24 Vdc – Electronic limit stop; electronic stop in the intermediate positions in case of overload. Electric chain actuator Ultraflex Control Systems named Synchro Nano DC with chain in double stainless steel links. High performance (400 N) in very small case (24 x 35 mm). Voltage supply: 24 Vdc - Electronic limit stop; electronic stop in the intermediate positions in case of overload. Suitable for mounting more than one actuators (max 4 actuators) on the same vent: integrated speed synchronization. When "free potential open/close feedback" is required, indicate suffix "F-SIGNAL"

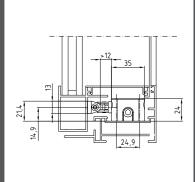
4 Side hinge





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On windowsill with side brackets

Integrated into window profiles with side brackets

On the frame with back brackets and aluminum "Z" bracket