NANO

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



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.
- Soft stop in close and fully open position
- Reduction of entrapment risk: stop and reverse action in case of obstacle detected
- Cable connection on both sides (Synchro versions)

• 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 combined installation with the additional locking device E-LOCK (see related data sheet).
- Suitable for drawbridge application (Synchro versions).

OTHER VERSIONS UPON REQUEST:

• NANO versions with IP42 protection class, for a higher resistance against atmospheric agents.

c (UL) us 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.

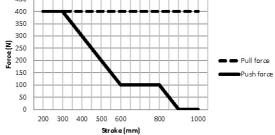
For further information contact our Tech. Dept.

Suitable for installation Heat Exhaust Ventila
in conformity to Europ
EN 12101-2 (pending

on Smoke and ators (SHEV) bean Standard g 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.



800 and 1000 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). Synchro versions can provide Silent Ventilation (slower speed) activated by UCS C-SV Smoke Ventilation Control Panels.

Part No. for DC VERSIONS (24 Vdc ±15%)

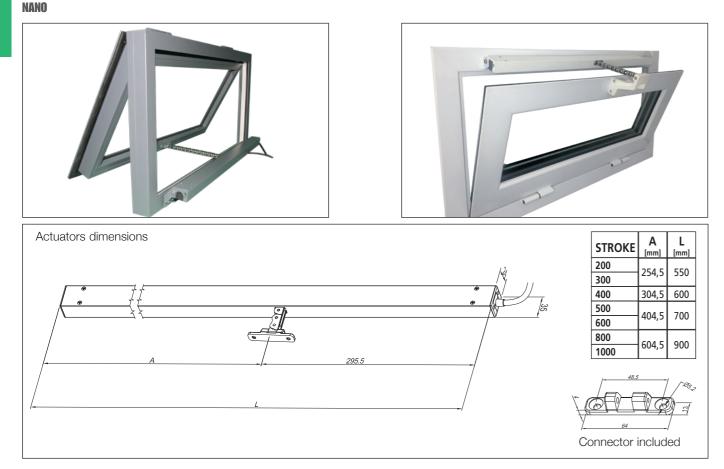
MODEL	SYNCHRO	FEEDBACK	CABLE	COLOUR	PART No. (Stroke)		
NANO DC			1,5 m 2 wires	SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010 SILVER ANODIZED BLACK RAL 9005 WHITE RAL 9010	200 mm 41944Z 41945A 41946B 500 mm 41953I 41954J 41955K	300 mm 41947C 41948D 41949E 600 mm 41956L 41957M 41958N	400 mm 41950F 41951G 41952H 800 mm 41959O 41960P 41961Q
SYNCHRO NANO DC	Yes	open/close	8 pole connector	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 41977H 41979I
SYNCHRO NANO DC F-SIGNAL	Yes	free potential open/close	8 pole connector	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

NOTE: brackets, electrical connector and cable not included - to be ordered separately

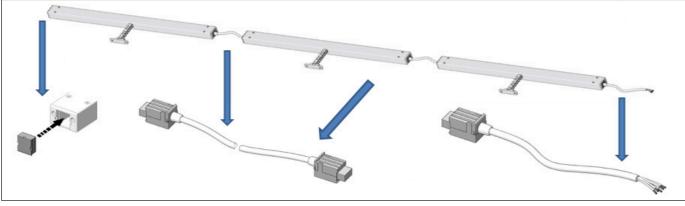
THE SOLUTION FOR **INTEGRATION INTO THE** WINDOW PROFILES

TECHNICAL DATA

	DC VERSION		
VOLTAGE SUPPLY	24 Vdc ± 15%		
CURRENT ABSORPTION (max load)	1 A		
OPERATION	polarity inversion		
MAX FORCE	400 N*		
OPENING SPEED	4 - 14 mm/s**		
CLOSING SPEED	4 mm/s		
DUTY CYCLE	30%		
PARALLEL CONNECTION	Yes		
LIMIT STOP	Electronic		
SAFETY STOP	Electronic		
PROTECTION CLASS	IP40		



Accessories - Electrical connectors and cables



part no. 41937S

- 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
- **Accessories Brackets**

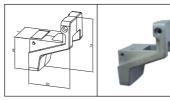




- 42021Y Electrical Connector (without cable) for SYNCHRO NANO DC and SYNCHRO NANO DC F-SIGNAL
- 42018V Cable with 2 connectors (1m, white) for installations of 2 x SYNCHRO NANO DC actuators.
- 42019W Cable with 2 connectors (1m, black) for installations of 2 x SYNCHRO NANO DC actuators.



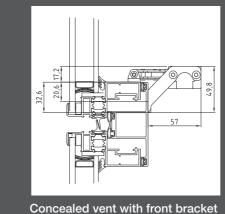
Back bracket kit: GREY part no BLACK part no part no. 41932N part no. 419330 WHITE part no. 41934P



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

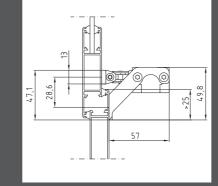
Installation examples



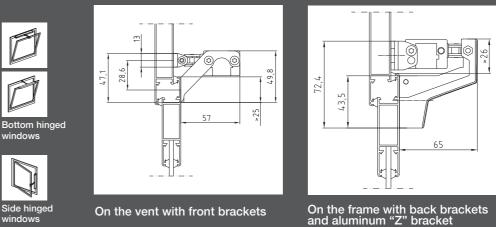




Parallel windows



With front brackets

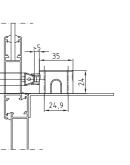


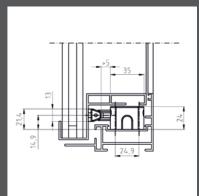
- The instructions for a safe installation are included in the section "SECURITY WARNINGS"

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"







On windowsill with side brackets

Integrated into window profiles with side brackets