

Features

- Nano actuators are for awning windows, hoppers, curtain wall vents and skylights.
- Synchro Nano is for wide vents that require 2 to 4 motors, providing multiple sash connection points and synchronized operation. Available in low voltage 24VDC only.
- Multiple vents can be wired in parallel, and can be operated by building automation systems.
- Chain operator available with 8", 12", 16", 20", or 23.6" stroke. Self-adjusting for proper closure at installation.
- Operator has stainless steel, double-link chain for rigidity and durability.
- Examples of 55 lbs operating force: 48" tall/440 lb. vent, 82" tall/752 lb. vent, or a 110 lb. skylight.
- Low-profile, attractive aluminum case; available in Black (RAL 9005), White (RAL 9010) or Silver anodized finish.
- Minimum sash height is 10".
- Synchro Nano F-Signal (DC) has opening and closing feedback signal.
- Two-year UCS manufacturer's warranty. Requires reading AFI Install Guide before purchase, and confirmation of project and installation specs by licensed electrical contractor.



Synchro Nano DC

Stroke	Silver	Black	White	Force	Feedback
200mm	42101AUL	42102BUL	42103CUL	400N Push, 400N Pull	Open & Close
300mm	42104DUL	42105EUL	42106FUL	400N Push, 400N Pull	Open & Close
400mm	42107GUL	42108HUL	42109IUL	300N Push, 400N Pull	Open & Close
500mm	42110JUL	42111KUL	42112LUL	200N Push, 400N Pull	Open & Close
600mm	42113MUL	42114NUL	42115OUL	100N Push, 400N Pull	Open & Close

Mounting Brackets (Ordered separately)

Part #	Style	Color
41935Q	Front Bracket Kit	Grey
41936R		Black
41937S		White
41932N	Back Bracket Kit	Grey
419330		Black
41934P		White
41938T	Side Bracket Kit	Grey
41939U		Black
41940V		White
41941W	Bracket for bottom hinged windows	Grey
41942X		Black
41943Y		White



Cable

Part #	Description
42016T	1.5m length, White color Single connector power connection
42017U	1.5m length, Black color Single connector power connection
42018V	1.0m length, White color Dual connector synchro connection
42019W	1.0m length, Black color Dual connector synchro connection

Specifications

Supply voltage	24VDC Low Voltage
Nom. Current draw	1.2 A average
Limit stop	(Open): Built in limit switch (Closed) Integrated electronic power cut-off
Chain stroke (approx)	200mm (8"), 300mm (12"), 400mm (16"), 500mm (20"), 600mm (23.6")
Force (Max)	200mm stroke: 400N Push, 400N Pull 300mm stroke: 400N Push, 400N Pull 400mm stroke: 300N Push, 400N Pull 500mm stroke: 200N Push, 400N Pull 600mm stroke: 100N Push, 400N Pull
Chain speed	4-14mm/sec
Dimensions	200mm Stroke: 550 x 35 x 24mm (21 ⁵ / ₈ " x 1 ³ / ₈ " x 1") 300mm Stroke: 550 x 35 x 24mm (21 ⁵ / ₈ " x 1 ³ / ₈ " x 1") 400mm Stroke: 600 x 35 x 24mm (23 ⁵ / ₈ " x 1 ³ / ₈ " x 1") 500mm Stroke: 700 x 35 x 24mm (27 ⁵ / ₈ " x 1 ³ / ₈ " x 1") 600mm Stroke: 700 x 35 x 24mm (27 ⁵ / ₈ " x 1 ³ / ₈ " x 1")
Power cable	Not Included
Run/Rest cycle	For every 60 sec running (on), must then rest (off) for 120 sec
Ambient Oper Temp	-10 °C to +60 °C (14 °F to 140 °F)
Listing	UL Listed
Protection class	IP20
Colors	Silver (Anodized), White (RAL 9010), or Black (RAL 9005)
Opening mechanism	Stainless steel chain

Stroke	A (mm)	L (mm)
200mm	254.5mm	550mm
300mm		
400mm	304.5mm	600mm
500mm	404.5mm	700mm
600mm		

