

Benefits

- Ideal for smart buildings; integrate with building and home automation systems.
- FM is certified for Smoke & Heat Extraction (SHE).

Applications

Automated operation of awning windows, hopper windows, casement windows, curtain wall vents, and skylights.



FM Actuator Features

- Tandem is 2 actuators (master and slave) connected by a cable, designed for wide vents.
- FM actuators are heavy duty operators, with compact casing and low noise operation.
- Push force: Up to 700N (158 lbf) per actuator
- Pull force: Up to 700N (158 lbf) per actuator
- Actuator has stainless steel double chain for rigidity and durability; Chain is centered in casing.
- FM Tandem actuators can be mounted any distance apart from each other on the vent
- Multiple windows may be linked for simultaneous operation
- Actuators available in Grey, White or other RAL colors
- Prewired with 3.1 meter cable
- Tested to 10,000 cycles



Double zipper chain for higher weight capacity

FM Tandem

Part #	Color	Stroke	Force (Push/Pull)
2409833	Silver Grey	Up to 501mm	500N/500N
2409825	White	Up to 501mm	500N/500N
13324598332	Black or other	Up to 501mm	500N/500N
2409866	Silver Grey	Up to 501mm	700N/700N
2409858	White	Up to 501mm	700N/700N
13324598662	Black or other	Up to 501mm	700N/700N
2409890	Silver Grey	Up to 600mm	500N/500N
2409882	White	Up to 600mm	500N/500N
13324598902	Black or other	Up to 600mm	500N/500N
2409924	Silver Grey	Up to 600mm	600N/600N
2409916	White	Up to 600mm	600N/600N
13324599242	Black or other	Up to 600mm	600N/600N
2409957	Silver Grey	Up to 700mm	300N/300N
2409940	White	Up to 700mm	300N/300N
13324599572	Black or other	Up to 700mm	300N/300N
2409981	Silver Grey	Up to 800mm	300N/300N
2409973	White	Up to 800mm	300N/300N
13324599812	Black or other	Up to 800mm	300N/300N

Specifications

Supply voltage	24VDC (-15% / +50%)	
Nom. Current draw (Per actuator)	1.2A at 300N load	1.8A at 600N load
	1.6A at 500N load	2.0A at 700N load
Limit stop	(Open): Built in limit switch (Closed) Integrated electronic power cut-off	
Chain stroke (approx)	501mm (19 ³ / ₄ "	700mm (27 ⁹ / ₁₆ "
	600mm (23 ⁵ / ₈ "	800mm (31 ¹ / ₂ "
Push force (Max)	2 x 700N (158 lbf +/- 3%)	
Pull force (Max)	2 x 700N (158 lbf +/- 3%)	
Clamping force (Max)	3000N (675 lbf +/- 3%) force needed to rip chain out of actuator case	
Chain speed	10mm/sec	
Dimensions	501mm stroke = 643 x 100.5 x 66mm (25 ⁵ / ₁₆ " x 3 ¹⁵ / ₁₆ " x 2 ⁵ / ₈ ")	
	600mm stroke = 744 x 100.5 x 66mm (29 ⁵ / ₁₆ " x 3 ¹⁵ / ₁₆ " x 2 ⁵ / ₈ ")	
	700mm stroke = 846 x 100.5 x 66mm (33 ⁵ / ₁₆ " x 3 ¹⁵ / ₁₆ " x 2 ⁵ / ₈ ")	
	800mm stroke = 948 x 100.5 x 66mm (37 ⁵ / ₁₆ " x 3 ¹⁵ / ₁₆ " x 2 ⁵ / ₈ ")	
Power cable	3.1 meter cable included, black color	
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	UR Recognized	
Protection class	IP20	
Case	Aluminum	
Colors	Powder-coated: Silver Grey (RAL 9006), White (RAL 9016)	
Special colors	Black (RAL 9005) and other RAL colors on request, see accessory data sheet.	
Opening mechanism	Stainless steel chain, chain is centered in case	

Optional Accessories - Mounting Brackets

See accessory data sheet for complete details

Part #	Description	Finish
67001020	Swivel mounting system for FM 501-800 (Tandem). For frame fitting on top-hung windows, opening outwards.	Raw aluminum
2600104	Skylight base plate	Raw aluminum



Dimensions

501mm stroke	600mm stroke	700mm stroke	800mm stroke
Length A = 643mm	Length A = 744mm	Length A = 846mm	Length A = 948mm
Length B = 583mm	Length B = 684mm	Length B = 786mm	Length B = 888mm

