



WMX 813 Chain actuator



Natural
ventilation

24V

±24V control



MotorLink®



TrueSpeed™

TrueSpeed™

1.43

Description

- optimized design for concealed installation
- for comfort ventilation
- to be used with all window types
- to be used together with ±24V control units or control units with MotorLink®
- synchronization of up to four window actuators – no need for an external synchronization module
- genuine position feedback and three speeds when using control unit with MotorLink®
- soft close
- the electronics in this actuator can be programmed to suit specific requirements – i.e. pressure- and traction force, stroke, speed/sound level – with the WAT 100 programming box, also possible following installation
- built-in electronic load switch-off/end stop
- electronic actuator with micro controller
- the actuator has an integrated reverse function to ensure a prolonged life span of the window gaskets

Actuator variants

The actuator is available in four different versions: single actuator (-1), double actuator (-2), triple actuator (-3) and quad actuator (-4).

The synchro actuators (-2, -3 and -4) are equipped with a patented synchronization function, in which the actuators communicate directly with each other, which ensures the actuators operate at exactly the same speed and position.

On large windows up to four actuators can be mounted on the same window – with no need for an external synchronization module.

Pressure safety function

The risk of entrapment is reduced as the actuators are programmed to reverse if they encounter obstacles when closing. The set points determining when the actuators are to reverse are individually adjustable and can be adjusted after installation using the programming box WAT 100.



Version S

Opening speeds

Actuators connected to ± 24 VDC control units (e.g. WUC) can be run with one speed – see the following page for opening speed.

Actuators connected to control units with MotorLink® (e.g. WCC) can be run with three different speeds:

- automatically control speed – actuators run slowly and almost soundlessly.

- manual control speed – actuators run faster and more audibly.
- H&S and safety control speed – actuators run fastest. H&S control always has highest priority.

Technical specifications

Pressure force	See diagram
Traction force	See diagram
Locking force	2000N
Chain opening	50 – 1000mm in increments of 10mm, maximum opening depends on the window construction
Opening speed	1-17 mm/s (TrueSpeed™)
Window type	Concealed installation
Nominal voltage	24V DC (max. 10% ripple)
Voltage	20-36V DC
Max. open-circuit voltage	max. 36V DC
Current consumption	max. 1A
Working condition	-5°C - +74°C, max. 90% relative humidity (not condensing)
Switch-on-duration	ED 40% (max. 4 min. per 10 min)
Material	No outer housing
Colour	Black anodized aluminium, black RAL 9005. RAL colours available at additional price
Size	22 x 33mm (H x D), length (L) depending on chain stroke – see table.
Weight	600mm stroke: 1.23kg
IP rating	Surface mounted: IP 20, concealed: IP 32
Life span	Tested with 10,000 opening and closing movements
Delivery includes	Actuator with 5m connection cable with fast-in/fast-on connector for WLL cable
To be ordered separately	Brackets and standard extension cables (WLL)
Note	We reserve the right to make technical changes

Chain stroke [mm]	Length (L) [mm]
400	499
600	599
800	699
1000	799

WMX 813

Chain actuator

Product code composition						
WMX 813	-n	x	xxxx	x	0	1
						Product version: 1
						Certification: 0 = CE
						Actuator hardware version: S = standard
						Chain opening: 50 – 1000mm, in increments of 10mm (0050 = 50mm)
						Colour: B = black
						Actuator variant: 1 = single, 2 = double, 3 = triple, 4 = quad

Explanation of product code structure

WMX 813-2B0070S 01

WMX 813 actuator, double synchronisation, black, 70mm chain opening, with CE certification, product version 1.

