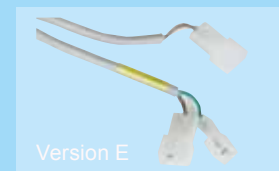
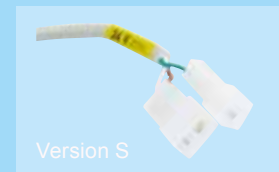
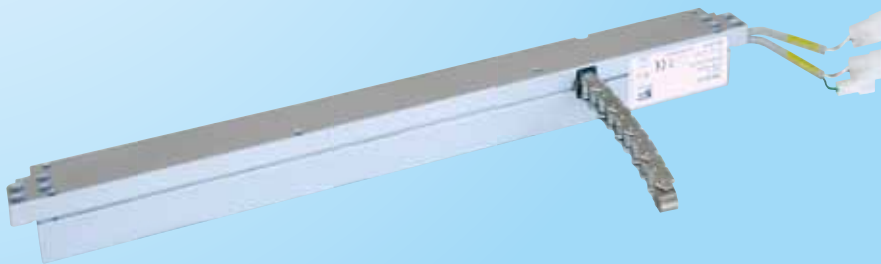


WMX 523 / 523 UL / 823 / 823 UL

CHAIN ACTUATOR



Description

- optimized design for concealed installation in window profiles
- WMX 523 for comfort ventilation
- WMX 823 for smoke and comfort ventilation
- to be used with all window types
- to be used together with $\pm 24V$ control units or control units with MotorLink™
- can be used together with espagnolette WMB
- external safety edge can be connected directly to the actuator (actuator version 'E')
- available with and without ETL certification:
 - Europe: order without ETL certification (version 0)
 - USA / Canada: order with ETL certification (version U)
- 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
- easy mounting

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.

Opening speeds

Actuators connected to ± 24 VDC control units (e.g. WUC) have one chain speed – see the following page for opening speed.

Actuators connected to control units with MotorLink™ (e.g. WSC xxM) have three different speeds:

- slow speed by soundless automatic control of the windows
- faster speed by audible manual (keypads) control of the windows
- fast speed by smoke ventilation and security functions

Technical data	
Locking force	3000N
Permitted short pressure load when chain has run to end stop	400N
Short pressure capacity on motor	WMX 523: max. 150N (e.g. at the beginning of opening: Sticky gasket, ice, wind speed) WMX 823: max. 200N (e.g. at the beginning of opening: Sticky gasket, ice, wind speed)
Chain opening	50 – 500mm in increments of 10mm, maximum opening depends on the window construction
Opening speed	WMX 523: 7mm/s / WMX 823: 9mm/s (programmable 3mm/s - 9.5mm/s)
Window type	For vertical or horizontal installation in the frame of inward and outward opening windows, window types and sizes must be agreed with the window supplier and WindowMaster
Window width	Min. 550mm, maximum width depends on the window construction and the number of window actuators
Window height	Min. 700mm, maximum height depends on the window construction and the number of window actuators
Nominal voltage	24V DC (max. 10% ripple)
Voltage	20-36V DC
Max. open-circuit voltage	Max. 36V DC
Current consumption	WMX 523: max. 0.5A / WMX 823: 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	Lacquered zinc housing and zinc chromate passivated steel chain and a 100mm cable with fast-in/fast-on connectors for connection to the extension cable WLL
Colour	Aluminium (RAL 9006), other RAL colours available at additional price
Size	517 x 30.5 x 42mm (W x H x D)
Weight	1.3kg
IP rating	Surface mounted: IP 20, concealed: IP 32
Certification	Actuators with "U" in the article no. are ETL certified accordingly to UL 325 and CAN/CSA-22.2 No. 247-92 and is supplied with UL approved cables UL STYLE 2464 (primary for U.S./Canada)
SHE test	WMX 823: In accordance with DIN 18232-3, section 3.6 (30 minutes at 300°C) and part B300 of BS EN 12101-2 WMX 523 / 823U: Not SHE tested
Life span	Tested with 10,000 opening and closing movements
Delivery includes	Actuator with 100mm 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

Brackets and accessories	Item no.
Chain bracket with tight-fitting bolt, WMX, for sash or frame	WAB 801
Chain bracket for integrated WMX, for sash	WAB 833
Chain bracket with split, for sash or frame	WAB 860
Chain bracket for Schüco systems, for sash	WAB 863
Chain bracket for wooden windows, for sash	WAB 867
Mounting profile for WMX 820 (tested in accordance with EN 12101-2)	WAB 909 0384
See separate product sheets for further information.	

Product code composition (actuator supplied in sealed plastic packaging)

WMX 523 WMX 823	-n	x	xxx	x	x	3
						Product version: 3
						Certification: 0 = CE, U = CE + UL/ETL
						Actuator hardware version: S = standard, E = with connection for pressure safety strip (E: not UL actuator)
						Chain opening: 50 – 500mm, in increments of 10mm (050 = 50mm)
Colour: G = grey						
Actuator variant: 1 = single, 2 = double, 3 = triple, 4 = quad						

Explanation of product code structure

WMX 523-2G070E 03

WMX 523 actuator, double synchronisation, grey, 70mm chain opening, with connection for pressure safety strip, with CE certification, product version 3.

Product code composition (actuator supplied in sealed plastic packaging and cardboard box)

The actuator is always supplied with chain opening 500mm and actuator hardware version standard "S".

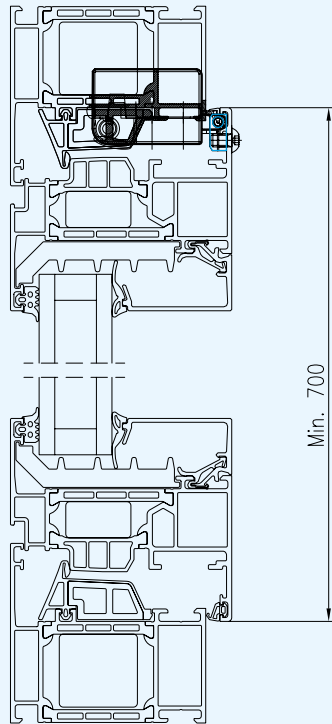
WMX 823	-n	x	01	03
				Product version: 03
				Market variant: 01 = for Europe
				Colour: G = grey
Actuator variant: 1 = single, 2 = synkro				

Explanation of product code structure

WMX 823-2G 0103

WMX 823 actuator, double synchronisation, grey, for Europe, product version 3.

Installation suggestion



For questions regarding the concealed installation – contact WindowMaster

WMX 523 / 523 UL / 823 / 823 UL CHAIN ACTUATOR

