



WMD 820 Door actuator 250N



Smoke ventilation
B300

24V



MotorLink®

2.12

Description

- Designed for doors and surface mounting
- For replacement air for windows and doors
- Can be used together with espagnolette WMB
- Synchronization of up to two actuators – no need for an external synchronization module
- Genuine position feedback when using control unit with MotorLink®
- Soft close function
- 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 after 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
 - Output for electronic lock max 1A
 - Potential free feedback for fully open (special version)

Actuator variants

The actuator is available in several different versions inward or outward opening versions: Single actuator (-1) and double actuator (-2).

The synchro actuator (-2) is 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 two actuators can be mounted on the same window – with no need for an external synchronization module.

Opening speeds

The number of actuator running speeds depends on the type of control unit to which the actuator is connected.

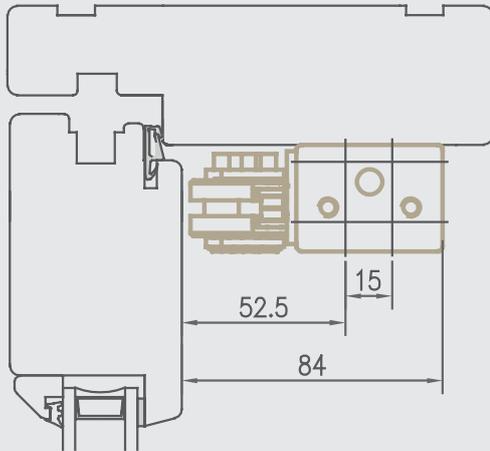
Technical specifications	
Traction force on the arm roller	250N
Locking force	2000N
Maximum opening angle	OU 90° / IN 98°
Opening speed	< 60 sec
Window & Door types	Side hung windows & doors – vent or door size should be confirmed with both the window supplier and WindowMaster
Nominal voltage	24 VDC (max. 10% ripple)
Voltage	20 - 36 VDC
Open circuit voltage	Max. 36 VDC
Potential free output	F version, 18Ω, max 100 mA
Current consumption	Max. 1A
Electronic lock	S version, max 1A
Consumption of power	Max. 24W
Operating conditions	-5°C - +74°C, max. 90% relative humidity (not condensing)
Switch-on-duration	ED 40% (max. 4min. per 10min)
Material	Anodised aluminium housing with stainless steel chain With 5m grey silicone cable 5-cores 0.34m ²
Colour	Anodized aluminium. RAL colours available at an additional price
Size	34 x 76mm (H x D), length (L) 668mm – (688mm incl. brackets) / (D = 81mm incl. arm roll)
Weight	3.5kg
IP rating	IP32
Fire test	B300 tested according to EN 12101-2:2003
Life span	Tested with 10,000 opening and closing movements
Delivery includes	Actuator with 5m cable
To be ordered separately	Brackets
Note	We reserve the right to make technical changes

Description of product code composition					
WMD 820	-nG	XX	X	X	01
					Product version: 1
					S= Standard, E= Entrapment, F= Feedback
					0= No delay, 1= Short delay, 2= Long delay
					Inward (IN) or Outward (OU)
					Actuator variant: 1 = single, 2 = double & G = grey
Example of product code					
WMD 820-1G IN 1S 01	WMD 820 actuator, single, grey, IN inwards, short delay, standard, product version 1				

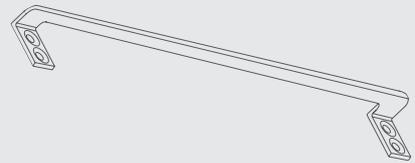
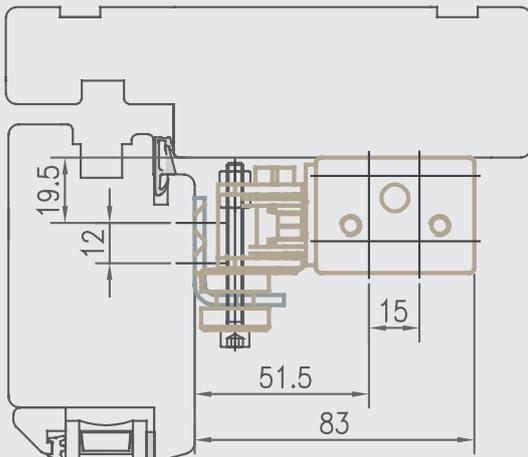
Items	Maximum opening angle	Initial pressure force [N]	Length (L) [mm] without brackets	Item no.
1 motor on a door				
Single actuator	98°	250	668	WMD 820-1G IN 1S 01
				WMD 820-1G IN 2S 01
	90°			WMD 820-1G OU 1S 01
				WMD 820-1G OU 2S 01
First motor on a double door (sequential control)				
Single actuator	98°	250	668	WMD 820-2G IN 1S 01
	90°			WMD 820-2G OU 1S 01
Second motor on a double door (sequential control)				
Single actuator	98°	250	668	WMD 820-2G IN 2S 01
				WMD 820-2G IN 2E 01
				WMD 820-2G IN 2F 01
	90°			WMD 820-2G OU 2S 01
				WMD 820-2G OU 2E 01
				WMD 820-2G OU 2F 01
2 motors on a window (synchro)				
Double actuator	98°	250	668	WMD 820-2G IN 0S 01
				WMD 820-2G IN 0E 01
				WMD 820-2G IN 0F 01
	90°			WMD 820-2G OU 0S 01
				WMD 820-2G OU 0E 01
				WMD 820-2G OU 0F 01
Actuators approved according to EN 12101-2 – contact WindowMaster				

Accessories	Item no.
Actuator bracket for WMD 820	WDB 820B
Actuator bracket inwards for WMD 820	WAB 825
Actuator bracket outwards for WMD 820	WDB 820M
Actuator bracket Z-bracket inwards for WMD 820	WDB 820L
Actuator bracket Z-bracket inwards for WMD 820	WDB 820R
See separate product sheets for further information.	

Installation suggestion 1

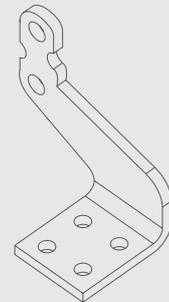
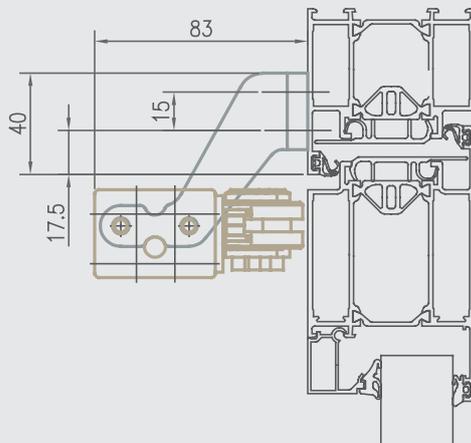


Installation suggestion 2



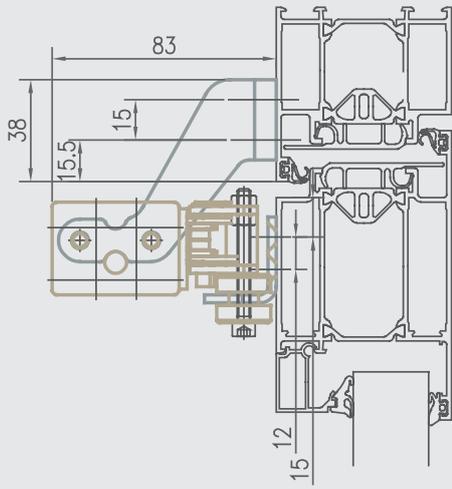
WDB 820M

Installation suggestion 3

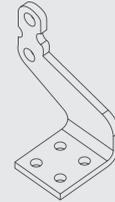


WDB 820B

Installation suggestion 4

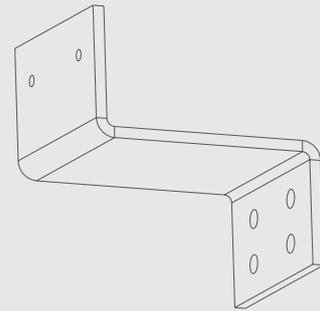
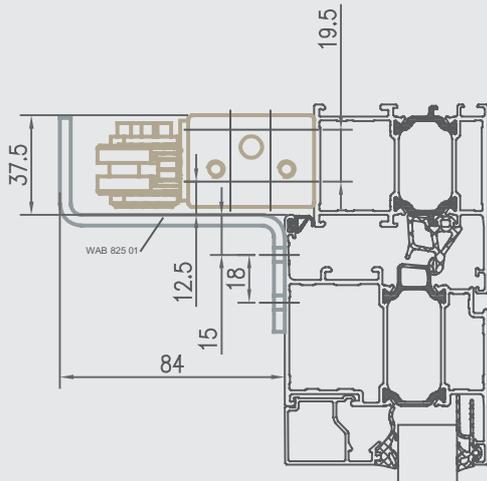


WDB 820M



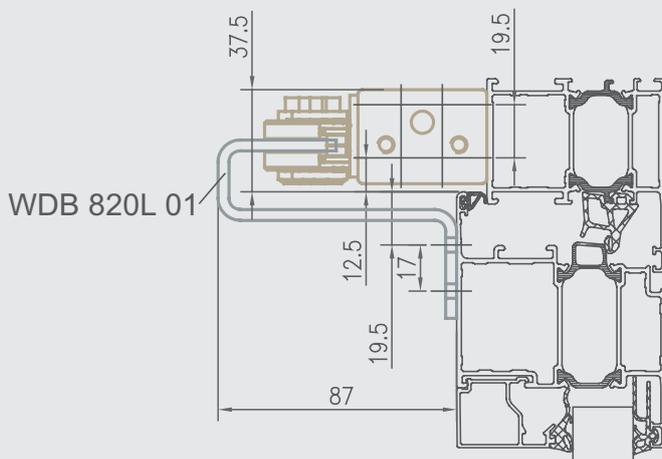
WDB 820B

Installation suggestion 5

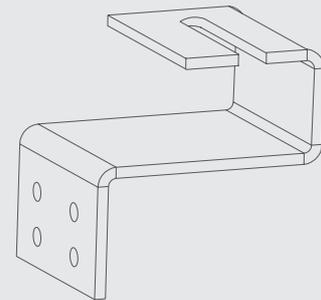
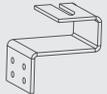


WAB 825

Installation suggestion 6



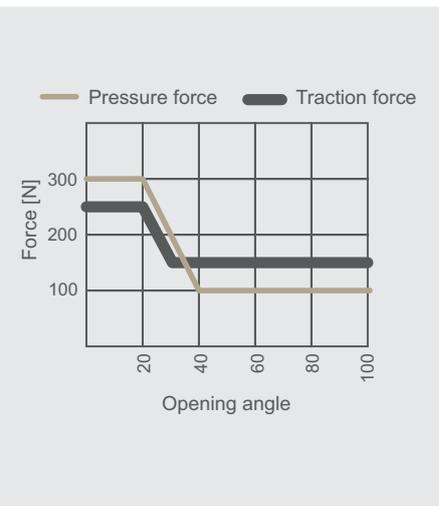
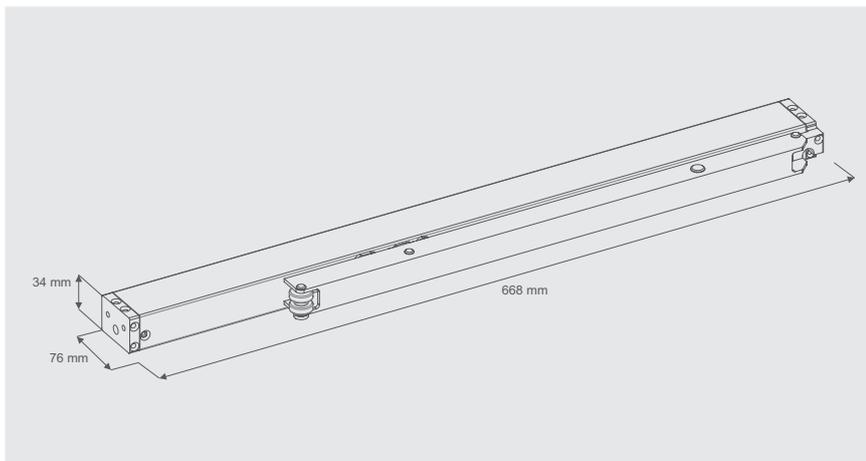
WDB 820R



WDB 820L

WMD 820

Door actuator 250N



L = Length (incl. screws) – see table of items