



Door actuator 250N



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
- · 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 24V DC / max. 1A
- Potential free feedback for fully open (special version)
 Please check/verify that loads acting on the WMD 820 conforms to the load constraints of the WMD 820
- Test before commissioning

Actuator variants

The actuator is available in several different versions inward or outward opening versions: Single actuator (-1); double actuator (-2); four actuators, 2 times double with sequencial control (-4).

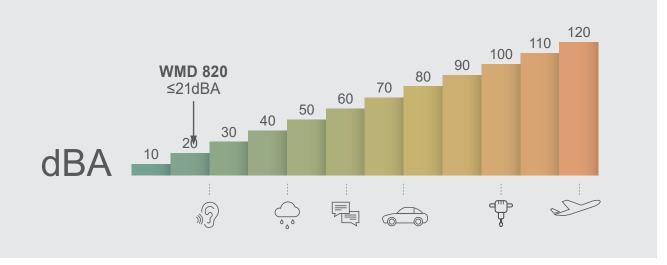
The synchro actuators (-2 and -4) are equipped with a synchronization function, in which the actuators communicate directly with each other, which ensures the actuators operate at exactly the same speed and position.

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		
Sound pressure level	≤21 dBA (operational speed: 0,2°/s), ≤39 dBA (operational speed: 2°/s)		
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	Max. 100 mA (Only functional when power to the motor) When used with Motorlink "Keep Power " must be set		
Current consumption	Max. 1A		
Electronic lock	S version, output 24V DC / 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	Tested according to B300, part 3.6 (30 min. / 300°)		
Certification	B300 tested according to EN 12101-2		
Life span	Tested with 10,000 opening and closing movements		
Delivery includes	Actuator with 5m cable		
To be ordered separately	Brackets		



The sound pressure level was measured externally by The Danish Technological Institute. The measurements have been carried out in a large regular room size 7 x 14 x 2.4 m (W x L x H) with the ceiling covered with a standard sound absorbent material. The A-weighted sound pressure levels have been measured at a distance of 1 meter away from the surface of the actuators and at the height of 1.6 meters from the floor. The actuators were not installed on any window profile nor added any load. The full opening and full closing sound of the actuators have been measured and the result represents the average of the measurements.

Items	Maximum opening angle	Initial pressure force [N]	Length (L) [mm] without brackets	ltem no.
One actuator on a door				
				WMD 820-1G IN 1S 01
	0.0%			WMD 820-1G IN 2S 01
	98°	250	668	WMD 820-1G IN 1E 01
				WMD 820-1G IN 1F 01
Single actuator				WMD 820-1G OU 1S 01
				WMD 820-1G OU 2S 01
	90°			WMD 820-1G OU 1E 01
				WMD 820-1G OU 1F 01
Two actuators on a doub	ole door (sequential co	ntrol)		
First actuator a double of	loor			
Cingle estudiat	98°	250	000	WMD 820-2G IN 1S 01
Single actuator	90°	250	668	WMD 820-2G OU 1S 01
Second actuator on a do	ouble door			
				WMD 820-2G IN 2S 01
	98°			WMD 820-2G IN 2E 01
		050	000	WMD 820-2G IN 2F 01
Single actuator		250	668	WMD 820-2G OU 2S 01
	90°			WMD 820-2G OU 2E 01
				WMD 820-2G OU 2F 01
Four actuators on a dou	ble door (sequential co	ontrol)		
First two actuators on a	double door			
Dauble actuator	98°	250	668	WMD 820-4G IN 1S 01
Double actuator	90°	230	008	WMD 820-4G OU 1S 01
Second two actuators of	n a double door			
	98°	250	668	WMD 820-4G IN 2S 01
				WMD 820-4G IN 2F 01
Double octuator				WMD 820-4G IN 2E 01
Double actuator	90°			WMD 820-4G OU 2S 01
				WMD 820-4G OU 2F 01
				WMD 820-4G OU 2E 01
Two actuators on a wind	ow (synchro)			
			668	WMD 820-2G IN 0S 01
	98°			WMD 820-2G IN 0E 01
Double actuator		250		WMD 820-2G IN 0F 01
Double actuator	90°	250		WMD 820-2G OU 0S 01
				WMD 820-2G OU 0E 01
				WMD 820-2G OU 0F 01
Actuators approved accord	ding to EN 12101-2 – cor	ntact WindowMaster		

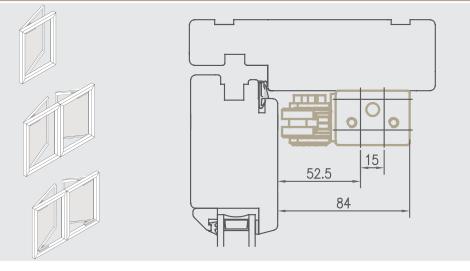
Description of product code composition							
WMD 820	WMD 820 -nG XX	XX	Х	Х	01		
				Produc	t version: 1		
				S= Sta	ndard, E	= Entrapment, F= Feedback	
			0= No	delay, 1=	Short de	elay, 2= Long delay	
Inward (IN) or Outward (OU)							
Actuator variant: 1 = single, 2 = double, 4 = 2 x double (sequential) & 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

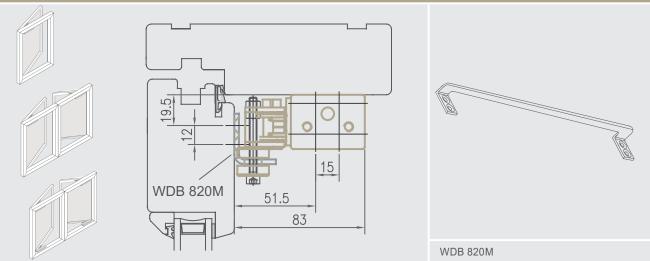
Accessories	Item no.
Actuator bracket for WMD 820	WDB 820B
Actuator bracket inwards for WMD 820	WAB 825
Actuator bracket outwards for WMD 820	WDB 820M
Actuator bracket Z-bracket inwards for WMD 820	WDB 820L
Actuator bracket Z-bracket inwards for WMD 820	WDB 820R

See separate product sheets for further information.

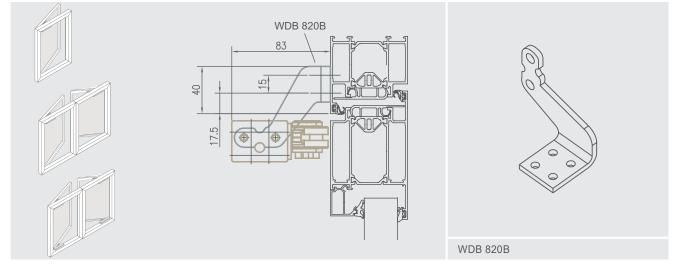
Installation suggestion 1 - Side-hung, outward opening



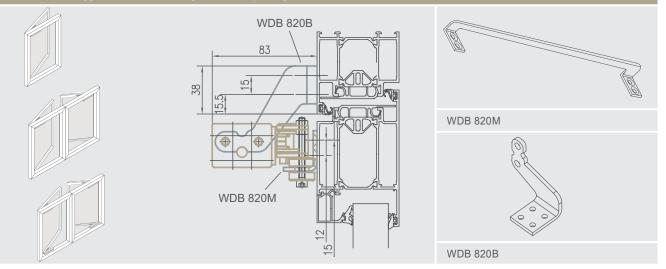
Installation suggestion 2 - Side-hung, outward opening



Installation suggestion 3 - Side-hung, outward opening

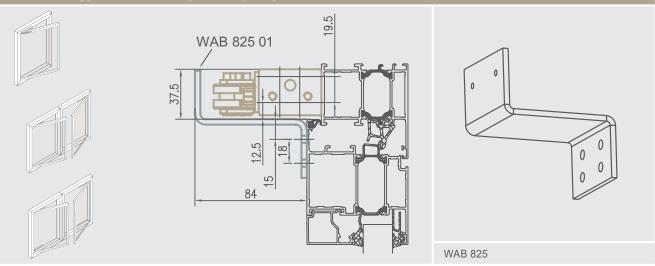


Installation suggestion 4 - Side-hung, outward opening



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Installation suggestion 5 - Side-hung, inward opening



Installation suggestion 6 - Side-hung, inward opening

