

 **NEXT DAY DESPATCH**
 **UK IMPORTER**
100 SERIES COMPATIBLE
IP32 RATED
MOTORLINK® OPTION
SYNCHRO OPTION



 **TYPE** Chain

 **VOLTAGE** 24V

 **THRUST** Up to 300N/30 kg

 **STROKE** 400, 600, 800 or 1000mm **OPTIONS**

DO NOT USE FOR SMOKE VENTILATION 

If you do require smoke control products or advice – please call us 

ABOUT THIS ACTUATOR

The WMU 836 electronic actuator with micro controller – is available in single-, double-, triple- and quad-actuator options. On large windows up to four actuators can be mounted on the same window – with no need for an external synchronisation module.

PRODUCT HIGHLIGHTS

- ✓ Designed for surface mounting
- ✓ 3000N locking force
- ✓ Electronic disconnection to avoid overload
- ✓ Position feedback and three speeds with MotorLink® control unit (available on request)
- ✓ Soft close function
- ✓ Supplied with chain fixing bracket

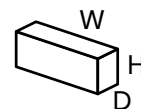
SUITABLE FOR...



COLOUR OPTIONS

-  Grey
-  Bespoke colours upon request

STANDARD ACTUATOR DIMENSIONS



WIDTH: 568mm (400mm stroke)
 668mm (600mm stroke)
 768mm (800mm stroke)
 868mm (1000mm stroke)
HEIGHT: 34mm
DEPTH: 47mm

TECHNICAL DATA >>>

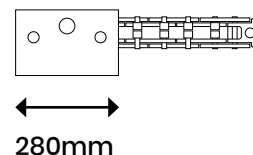
PRODUCT CODES >>>

TECHNICAL DATA

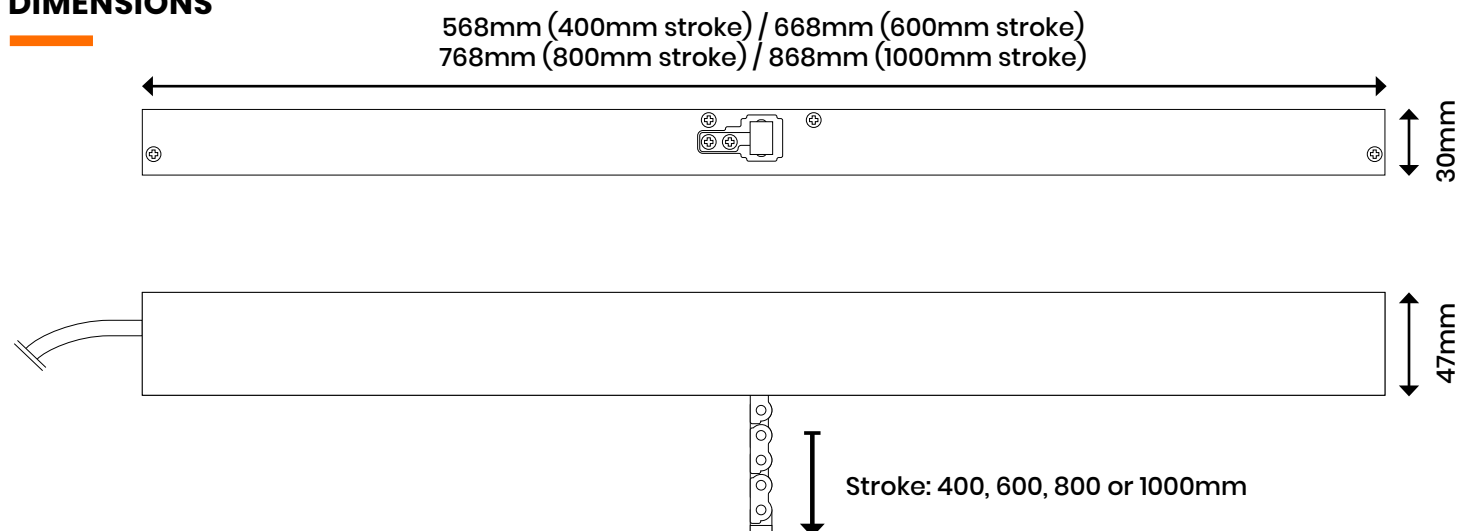
WMU 836	
Voltage Supply	24V
Thrust Force	400m Stroke
	600mm Stroke
	800mm Stroke
	1000m Stroke
Traction Force	300N
Locking Force	3000N
Stroke Adjustment	400, 600, 800 and 1000mm
Minimum Window Width	638mm
Maximum Window Width	1300mm (use an actuator with two pushpoints if wider)
Absorbed Current	1.0 amps
Power	24 watts
Operating Temperature	-5°C to +74°C
Time Rating	ED 40% max. 4min per 10min
Limit Stop	Electronic
Safety Stop	Electronic
Wiring	3 Core
Speed	~ 11mm/s to 14mm/s depending on model
Protection Class	IP32
Parallel Connection Option	No
Weight	400mm = 2.2 kg, 600mm = 2.6 kg 800mm = 3.0 kg, 1000mm = 3.4 kg
Cable Length (standard)	5m

WHAT'S IN THE BOX?

- ✓ WMU 836 Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Fitting/Drilling Template
- ✓ Installation and User Guide
- ✓ Safety Plate



DIMENSIONS



PRODUCT CODES >>>

BRACKET & ACCESSORY CODES



Upper Bracket
AXWM-WMU-BCHA-MI01



Small Pivoting Bracket
AXWM-WMU-BPIV-MI01



Large Pivoting Bracket
AXWM-WMU-BPIV-MI02



Inward Opening Bracket – A
AXWM-WMU-BUPP-MI01



Inward Opening Pivoting Bracket – B
AXWM-WMU-BPIV-MI03



Inward Opening Pivoting Bracket – C
Available on request

ACTUATOR CODES

WMU 836 24V Actuator

400mm Stroke
Available on request

600mm Stroke
ACWM-WMU-024V-0002

800mm Stroke
ACWM-WMU-024V-0003

1000mm Stroke
ACWM-WMU-024V-0001

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE



230V – 24V
CONVERTOR



24V TF SERIES
CONTROL



WEATHER
STATION

WINDOW OPERATION FORCE CALCULATION

TOP, BOTTOM OR PIVOT HUNG WINDOWS

The formula for calculating the load the actuator has to move for top hung, bottom hung and pivot windows is the following:

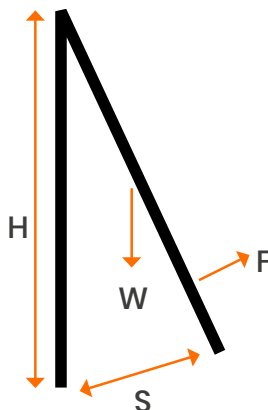
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

F = Force required (N)

W = Weight of the window (kg)

S = Opening stroke (mm)

H = Height of the window (mm)



EXAMPLE: 60 kg Weight / 1000mm Height / 500mm Stroke

$$F = 60/2 \times 500/1000 \times 10$$

$$F = 30 \times 0.5 \times 10$$

$$F = 150 \text{ newtons}$$

IMPORTANT: For installation on a pivoting window the given height is to be considered H/2.

IMPORTANT: The indicated loads do not include the force exerted by wind or other extreme weather conditions. If the actuator is to be installed in areas that may be subject to these conditions, contact our technical department to discuss your requirements.

The actuator rotation angle is usually half the height of the opening angle of the window. Check that there are no obstacles to the rotation of the actuator in order to prevent damage to it.

For actuators with non pivoting brackets, the height of the window must not be below a certain height (see individual product details) in order to prevent excessive chain bending. Please contact our sales support team for more details.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

DOMES AND SKYLIGHTS

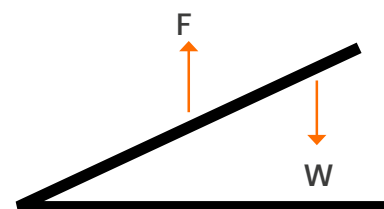
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

The formula for calculating the load the actuator has to move for domes and skylights is the following:

$$F = \frac{W}{2} \times 10$$

F = Force required (N)

W = Weight of the window (kg)



EXAMPLE: 110 kg Weight / 1000mm Height / 500mm Stroke

$$F = 110/2 \times 10$$

$$F = 55 \times 10$$

$$F = 550 \text{ newtons}$$

SKYLIGHTS: The opening can be hung on one side or have a central axis of rotation. In the latter case, you have to consider the distance between the axis of rotation and the point of application of the actuator as the frame height. A Velux type of opening on a horizontal roof or roof sloping up to 30° horizontally weighs 50% on the hinges and 50% on the actuator. In the case of centre rotation, the weight is practically nothing and is determined only by the windows frictions.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.



IMPORTANT: If the window frame is accessible, or installed at a height of less than 2.5m from the ground, an emergency stop system must be fitted to prevent the crushing or entrapment of clothing or body parts inserted between the moving and fixed elements of the window frame.