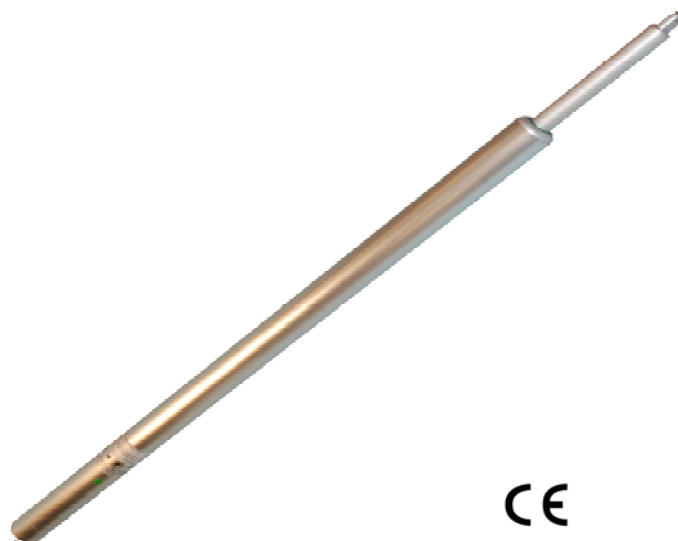


# WMS 409/409i/409M

## Spindle actuator



WMS 409:



Approvalno.  
G502017  
up to 750mm



### Elegant and fast

#### Application

The WMS 409/409i/409M are powerful and competitive spindle actuators in an elegant design, especially developed for large and heavy SHE and comfort ventilation applications.

The high power force (up to 900N) combined with a fast opening speed (12.5 mm/s) make the actuators particularly suited to solutions that need to comply with SHE-ventilation requirements.

We recommend the connection of a wind-/rain sensor if you have comfort ventilation.

#### Stroke and brackets

The WMS 409M-EN is available with strokes from 300 mm up to 1000 mm.

Furthermore we provide a wide selection of brackets for easy and correct mounting and fastening.

### Versions

#### WMS 409:

The WMS 409 is the single-version for windows where only one motor is required.

The WMS 409 is approved by VdS up to 750mm. VdS approval no. G502017.

#### WMS 409i

The WMS 409i is the synchronic version for windows where two actuators are to be mounted to a single window.

This means, that windows and roof lights can be opened at a high speed with up to 1800N maximum load.

WMS 409i is prepared for the synchronisation module WMS 300 0100 (one module per two actuators). The module is to be ordered separately.

#### WMS 409M

A programmable 24V DC actuator with NV MotorLink™.

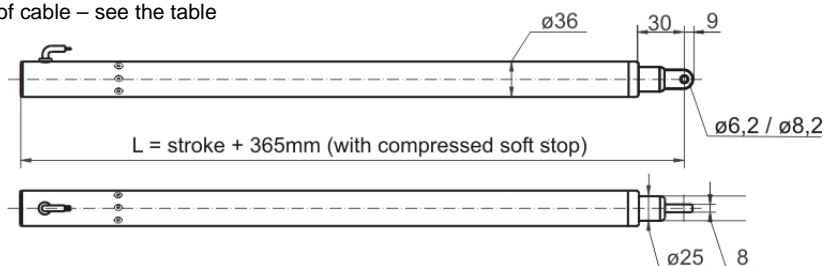
The WMS 409M is especially developed for the control of Natural Ventilation.

For further information please contact WindowMaster.

## WMS 409/409i/409M

Material	Aluminium tube
Colour	Silver anodised EV1. Other RAL colours available at additional price
Dimension	ø36mm. Length (L) depending on the length of the stroke. See the table.
Weight	See the table
Connection cable	409: 2,5m grey silicone cable 2-core 0,75mm <sup>2</sup> ø6,5mm 409i: 2,5m grey silicone cable 4-core 0,75mm <sup>2</sup> ø7,0mm 409M: 5m grey silicone cable 3-core 0,75mm <sup>2</sup> ø6,8mm
Stroke	300, 500, 750 and 1000mm
Opening speed	12,5 mm/s (full load)
Force - WMS 409	SHE: 900N Comfort ventilation: 650N
Force - WMS 409i/409M	900N
Locking force	2850N
Load switch-off	WMS 409: integrated in the spindle. WMS 409i: integrated in the synchronisation module. WMS 409M: integrated in the spindle (programmable).
Protection type	IP 54
Operating conditions	-5°C til +75°C. Max. 90 % relative humidity (not condensing).
Nominal voltage	24 VDC
Voltage	19 VDC -32 VDC (max. 25% ripple)
Switch-on duration	3 min. pr. 10 min. (ED 30 %)
Off load voltage	Maks. 32 VDC
Current consumption	Maks. 1,8A
Power consumption	Maks. 44W
To be ordered seperately	Brackets. When WMS 409i also a synchronisation module WMS 300 0100 ( one module per two actuators).
Window types	Bottomhung, tophung or turning windows. Window size must be agreed with the window supplier and WindowMaster. WindowMaster are happy to help with any advice on the installation of window actuators on any specific window profile.
Reservation	We reserve the right to make technical changes

Length of cable – see the table



Length of stroke (mm)	L (mm)	Weight (kg)
300	665	1,8
500	865	2,3
750	1115	2,7
1000	1335	3,1
Special stroke lengths on request		