MINGARDI D8 FCE
LINEAR ACTUATOR

NEXT DAY DESPATCH | UK IMPORTER | 100 SERIES COMPATIBLE | IP55 RATED



REPLACEMENT OPTION FOR THE **D6** (DISCONTINUED)

- TYPE: Linear
- VOLTAGE: 110v or 230v
- THRUST: 500N / 50Kg
- STROKE: 160, 200, 235, 300 or 400mm

DO NOT USE FOR SMOKE VENTILATION

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

ABOUT THIS ACTUATOR

The Mingardi D8 FCE linear actuator, with stainless steel rigid rod and high resistance to maximum loads, is available in 110v and 230v models. Features include; limit switches and relays for connection in parallel, thermal overload protection and a high protection degree – IP55. The standard casing is anodized silver.

PRODUCT HIGHLIGHTS

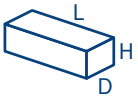
- ✔ Fixing bracket slides along length of casing
- ✔ Complete with fixing accessories.
- ✔ Maintenance free
- ✔ Easy mounting and installation
- ✔ CE marked device

SUITABLE FOR...

COLOUR OPTIONS

- Anodized Silver
- Bespoke colours on request

ACTUATOR DIMENSIONS



LENGTH: 319mm (160mm stroke)
319mm (200mm stroke)
419mm (235mm stroke)
419mm (300mm stroke)
519mm (400mm stroke)

HEIGHT: 80mm

DEPTH: 63.5mm

TECHNICAL DATA >>>
PRODUCT CODES >>>

www.vent.co.uk /// 01202 744 958

MINGARDI D8 FCE
LINEAR ACTUATOR

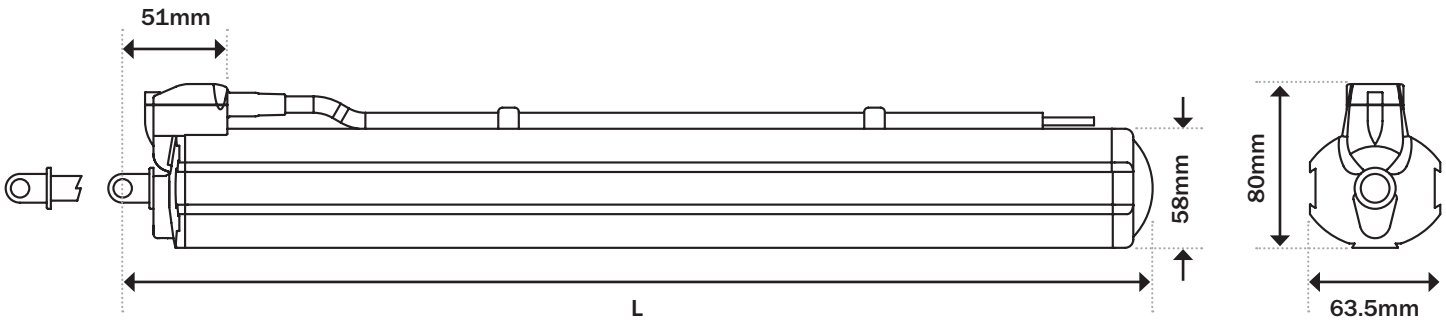
TECHNICAL DATA

	D8 FCE 110v	D8 FCE 230V
Voltage Supply	110v	230v
Thrust Force	500N / 50Kg	500N / 50Kg
Traction Force	500N / 50Kg	500N / 50Kg
Stroke	300mm	200mm / 300mm / 400mm
Maximum Window Width	1300 mm (use an actuator with two pushpoints if wider)	
Absorbed Current	1.0 amps	1.0 amps
Power Consumption	175W	175W
Operating Temperature	-10°C to +40°C	-10°C to +40°C
Time Rating	S2 of 3 min	S2 of 3 min
Limit Stop	Microswitch	Microswitch
Safety Stop	Microswitch	Microswitch
Wiring	4 core + earth	4 core + earth
Speed	~ 12mm/s	~ 12mm/s
Double Insulated	Yes / No	Yes / No
Protection Class	IP55	IP55
Parallel Connection Option	Yes	Yes
Weight	2.0kg	2.0kg
Cable Length (standard)	1.2m	1.2m





DIMENSIONS



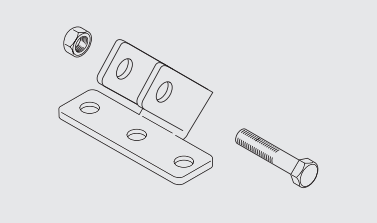
STROKE LENGTH	MEASUREMENT L
200mm	319mm
300mm	419mm
400mm	519mm

WHAT'S IN THE BOX?

- ✔ Mingardi D8 FCE Actuator
- ✔ Upper Bracket Connecting Pack
- ✔ Fitting/Drilling Template
- ✔ Installation and User Guide
- ✔ Safety Plate

PRODUCT CODES >>>

BRACKET & ACCESSORY CODES



Upper Bracket (Front Bracket)
(connects to window frame)
AXMI-D4_-BSUP-MI

ACTUATOR CODES

D8 FCE 110v
300mm stroke ACMI_D8_110V_SI01

D8 FCE 230v
200mm stroke ACMI_D8_230V_SI02
300mm stroke ACMI_D8_230V_SI04
400mm stroke ACMI_D8_230V_SI05

230v

RELATED PRODUCTS AND SERVICES

VENTEC 100 SERIES CONTROL
VENTEC DS SWITCH
230V TF SERIES CONTROL
PROJECT COMMISSIONING
INSTALLATION & MAINTENANCE

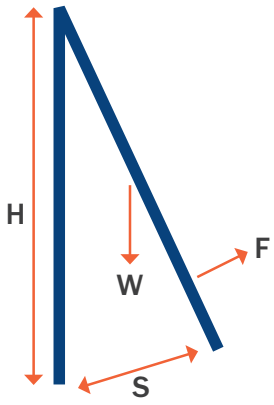
WINDOW OPERATION FORCE CALCULATION

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: 60Kg Weight / 1000mm Height / stroke 500mm

F = 60/2 x 500/1000 x 10
F = 30 x 0.5 x 10
F = 150 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 obstables 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.

IMPORTANT: If the window frame is accessible, or installed at a height of less then 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.

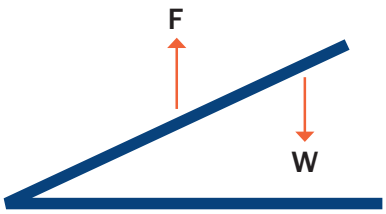
DOMES AND SKYLIGHTS

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: 110Kg Weight / 1000mm Height / 500mm Stroke

F = 110/2 x 10
F = 55 x 10
F = 550 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.