



Swing Door Operator Vector

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Vector is an advanced electromechanical operator used for the automation of any type of new or existing swing door.

It is a highly-efficient, high-performance operator, especially designed for intensive use, as it can automate both light and very heavy doors.

It is available with pull or push arms for single and bi-parting door versions.

Thanks to its specific operating modes, Vector is recommended for hermetic doors and for locations with high wind load.



Compact design, with minimum aesthetic impact.

Attractive and formal design with pleasant lines.

Available modes for **Low Energy** and **Push&Go** activation.

Easy installation and monitoring thanks to its built-in double display.

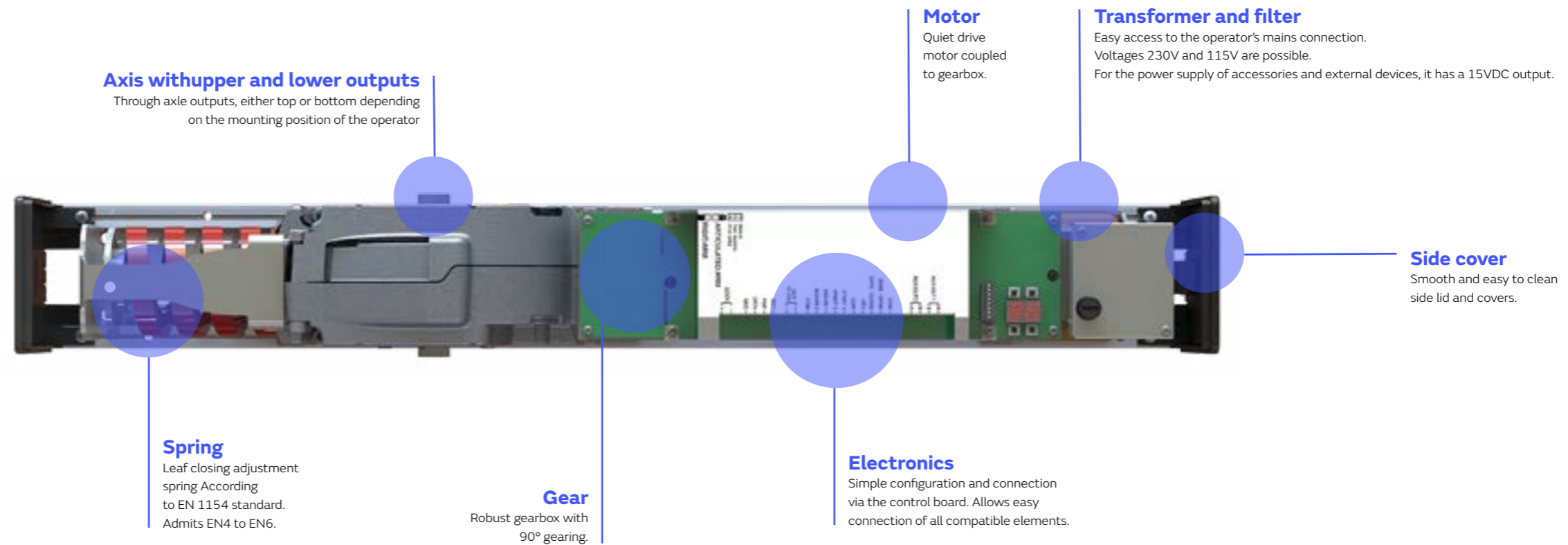
Built-in mode selector: manual, automatic and stop open mode.

Possibility to **interlock the doors**.

Optional **5 modes selector** on surface (available under request).

Compatible with all types of blades.

Technical specifications



Models of Vector swing operator according to their operation

MOTOR OPENING AND SPRING CLOSING (STANDARD)

- Door closing by means of a motor-assisted spring in normal operation.
- Door closing by means of spring in case of power supply failure.

OPENING BY SPRING AND CLOSING BY MOTOR (REVERSE OPERATION)

- Door opening by means of a motor-assisted spring in normal operation.
- Door opening by means of spring in case of power supply failure.

Types of arms

PUSH ARM



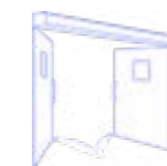
Short push arm $0 \leq X \leq 150$



Long push arm $150 \leq X \leq 300$



Single + Push arm



Bi-parting + Push arm

PULL ARM



Basic pull arm



Slim pull arm



Single + Pull arm



Bi-parting + Pull arm

Technical specifications

MECHANICAL SPECIFICATIONS

Dimensions (Height x Width x Length)	89 x 130 x 675 mm (1 leaf) 89x130xhasta 2800mm (maximum 2 leaves)
Maximum leaf weight	250 kg (see table 1)
Opening time	3s (70°/s) ÷ 6s (20°/s)
Closing time	4s (40°/s) ÷ 15s (10°/s)
Closing force (second in 1154)	EN4 ÷ EN6 (See table 2)
Maximum opening angle	110°
Width of door leaf	700 ÷ 1400mm
Anti-crushing	Automatically limits force when obstacles are detected
Weight	Approx. 11kg.
Protection grade	IP40

Table 1

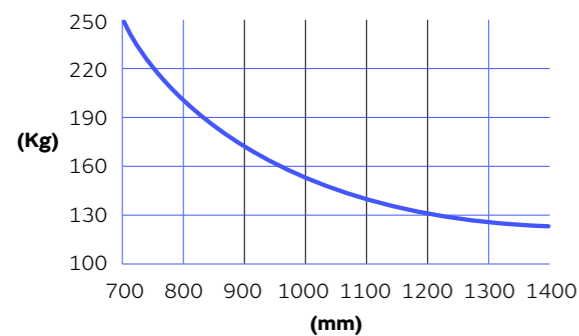
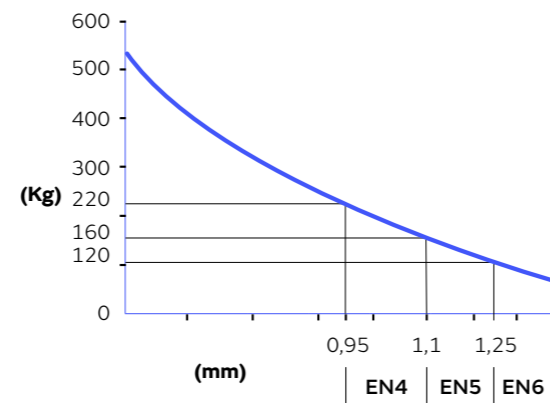


Table 2 / Classification as per EN1154



ELECTRICAL SPECIFICATIONS

Power supply	230V ±10% CA 50/60 Hz
Power supply on demand	115V ±10% CA 50/60 Hz
Nominal power	85W
Shaft output max. torque	45Nm
External devices power supply	12 VDC - 12W Máx.
Operating temperature	De -10°C a 50°C
Service	Continual

Regulations and security specifications

All manusa Vector operators include the following safety features as standard:

Closing force limitation

The motor torque is monitored to ensure pedestrian safety.

Detection of obstructions

- When closing, the door reopens.
- When opening, the door stops.

Manual opening

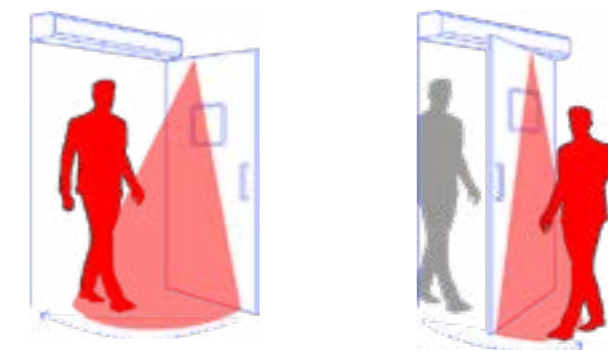
- In the event of power failure, the door may be activated manually, like a manual swing door.

Fire alarm connection

- In the event of a fire and in order to allow evacuation, the door enters manual mode.

Optionally, the Vector operator may have protection sensors for the door's opening area. If the sensor detects the presence of a pedestrian in that area, the door will move safely.

Optionally, the Vector operator is for sale with a reverse mechanism, where the spring acts in favor of the door opening and not closing, especially designed for escape routes.



APPLIED STANDARDS

Low Voltage	35/2014/CE
Electromagnetic Compatibility	30/2014/CE
Construction Materials	305/2011/CE
Machine Safety	42/2006/CE
Automatic Door Use Safety	EN 16005

Associated certificates:





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