

Visio+ Operator



1. Description

Operator for automatic sliding door with single or bi-part opening, in normal or telescopic configuration.

The **Visio+ range of operators for automatic sliding doors** is made up of different models that allow it to be adapted to the specific needs of each installation, offering a complete and versatile solution for the automation of pedestrian accesses.

Technical Performance

Three motor variants: Visio+ 100, Visio+ 125 and Visio+ 125HD allow the door to be adapted to the customer's needs in terms of the required dynamic performance.

Asynchronous motors, with high reliability and advanced control electronics, allow for the best **dynamic performance** to optimize **energy savings**.

Manusa's exclusive VV-VF (Independent Variation of Speed and Force) Inverter Technology and Advanced Motor Control Management, combined with direct drive and optimized tread design, offer **unique smoothness of motion**.

Chassis versions of 100, 125 and 175 mm in height for all construction needs.

The Visio+ family has the technological and **safety** features that guarantee compliance with the UNE-EN16005 standard.

Compatible with the entire range of Manusa **leaves** and with standard or custom commercial ones depending on the project.

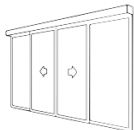
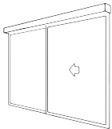
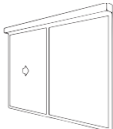

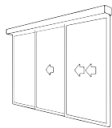

Connectivity

The incorporation of a **new Manusa Bus** for Plug & Play communications, simplifies the connection of devices, with greater signal integrity, less electronic noise and also facilitating their installation and connection.

Built-in electronic gateway for the connection, by current loop, of devices and sensors without Manusa Bus.

Built-in IoT module, allows door control and a series of additional functions through mobile applications for both User and Technical Service. The possibility of **uploading and updating the firmware** through the eSAT app wirelessly by the Technical Service, guarantees optimal operation and maintenance of the door under any circumstance.

Hardware and Software adapted **to meet the specific regulatory requirements** of certain countries.

Bi-part	Left-opening	Right-opening	Central 4-leaf Telescopic door	Left-opening 2-leaf telescopic door	Right-opening 2-leaf telescopic door
					

Visio+ Operator

2. Motor group: technical features

Motor group features			
	Visio +100	Visio +125	Visio +125HD
Opening speed (adjustable) x leaf	≤ 0,7 m/s	≤ 1 m/s	≤ 0,7 m/s
Closing speed (adjustable) x leaf	0,15 a 0,6 m/s	0,15 a 0,6 m/s	0,15 a 0,6 m/s
Maximum acceleration	0,7 m/s ²	2 m/s ²	0,4 m/s ²
Maximum sliding leaf weight (Single /Bi-parting)	1x120 Kg / 2x90 Kg	1x160 Kg / 2x120 Kg 2x107 Kg / 4x80 Kg	1x293 Kg / 2x220 Kg

Electrical features			
	Visio +100	Visio +125	Visio +125HD
Standard power supply	220-240V +/-6% 50-60Hz	220-240V +/-6% 50-60Hz	220-240V +/-6% 50-60Hz
Optional power supply 110V	100-120V +/-6% 50-60Hz	100-120V +/-6% 50-60Hz	100-120V +/-6% 50-60Hz
Motor	1 x AC Triphasic	2 x AC Triphasic	2 x AC Triphasic
Power (x motor)	110 W	250 W	250 W
Mechanical gearbox	Yes	No	Yes
Inverter Technology (exclusive Manusa)	VV-VF	VV-VF	VV-VF
Fuse protection	3,15A (220V) / 5A (115 V)	3,15A (220V) / 5A (115 V)	3,15A (220V) / 5A (115 V)
Operating temperature	-15°C a 50°C	-15°C a 50°C	-15°C a 50°C
Transportation and storage temperature	-15°C a 50°C	-15°C a 50°C	-15°C a 50°C
Rechargeable fail-safe batteries	1x12 V DC 700 mAh	1x12 V DC 700 mAh	1x12 V DC 700 mAh

Electronic features			
	Visio +100	Visio +125	Visio +125HD
Fire alarm connection	Yes	Yes	Yes
Opening movement protection	Yes	Yes	Yes
Emergency stop	Yes	Yes	Yes
Detection of obstructions	Yes	Yes	Yes
Fail-safe battery	Yes	Yes	Yes
Safety photocells connection	Yes, maximum 2	Yes, maximum 2	Yes, maximum 2
Safety sensors supervision	Yes	Yes	Yes
Movement sensors supervision	Yes	Yes	Yes
Bus Manusa	Yes	Yes	Yes
Current loop connection	Yes	Yes	Yes
Lock status monitoring	Yes	Yes	Yes
IoT module	Yes	Yes	Yes

Visio+ Operator

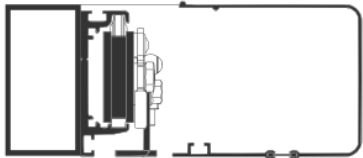
3. Chassis: technical features

The Manusa VISIO + operators offer many assembly varieties depending on the construction requirements:

Chassis features			
	Visio +100	Visio +125 Visio +125HD	Visio +125 Telescopic
Operator dimens. (height x depth) [mm]	100 x 203	125 x 180	125 x 230
Optional cover variant 175mm high	-	175 x 180	175 x 230
Single Operator Length SHORT KIT [mm] (Standard size sliding clearance) [mm]	2910 ⁽¹⁾ (750-1430) ⁽²⁾	2910 ⁽¹⁾ (750-1430) ⁽²⁾	2910 ⁽¹⁾ (1050-1903) ⁽²⁾
Single Operator Length LONG KIT [mm] (Standard size sliding clearance) [mm]	4210 ⁽¹⁾ (750-2080) ⁽²⁾	4210 ⁽¹⁾ (750-2080) ⁽²⁾	4210 ⁽¹⁾ (1050-2500) ⁽²⁾
Bi-parting Oper. Length SHORT KIT [mm] (Standard size sliding clearance) [mm]	4210 ⁽¹⁾ (980-2055) ⁽²⁾	4210 ⁽¹⁾ (900-2055) ⁽²⁾	4210 ⁽¹⁾ (1800-2740) ⁽²⁾
Bi-parting Oper. Length LONG KIT [mm] (Standard size sliding clearance) [mm]	5810 ⁽¹⁾ (980-2855) ⁽²⁾	5810 ⁽¹⁾ (900-2855) ⁽²⁾	5810 ⁽¹⁾ (1800-3806) ⁽²⁾
Maximum height clearance [mm]	3000 ⁽³⁾	3000 ⁽³⁾	3000 ⁽³⁾
Admissible mounting	Frontal Lateral	Frontal Lateral Superior	Frontal Lateral Superior
Admissible suspension beam [mm]	100 x 50	125 x 30 125 x 50	125 x 30 125 x 50
Operator dimensions with susp. beam Height x Depth [mm]	100 x 253	125 x 212 125 x 230	125 x 262 125 x 280

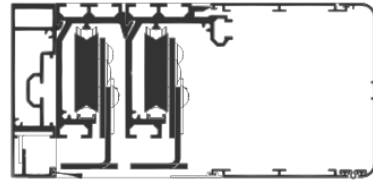
- (1) The indicate dimensions correspond to the length of the standard operator kits, which in the case of the LONG KIT are the maximum possible operator dimensions. Operators are available in KIT format at pre-determined size, or custom-made upon request.
- (2) Clear Widths indicated correspond to the minimum and maximum possible width of passage for the indicated length and type of operator. The maximum width of the passage will always be conditioned to the type and the weight of the moving leaf. The minimum indicated is considering that the operator includes a lock.
- (3) The maximum clear height will always be conditioned to the type of leaf used and the maximum weight of the moving leaf.

In a freestanding assembly, it is recommended to use a system of suspension beams in order to reinforce the operator structure. If the exstructure is not strong enough is mandatory to use goal post.

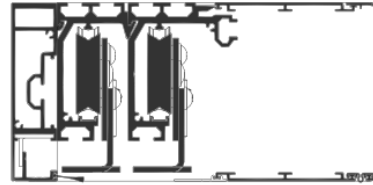
Self-supporting suspension beams	
<p>Visio 100 + PV100-50 100 mm height x 253 mm depth</p>	
<p>Visio 125 + PV125-30 125 mm height x 212 mm depth</p>	
<p>Visio 125 + PV125-50 125 mm height x 230 mm depth</p>	

Visio+ Operator

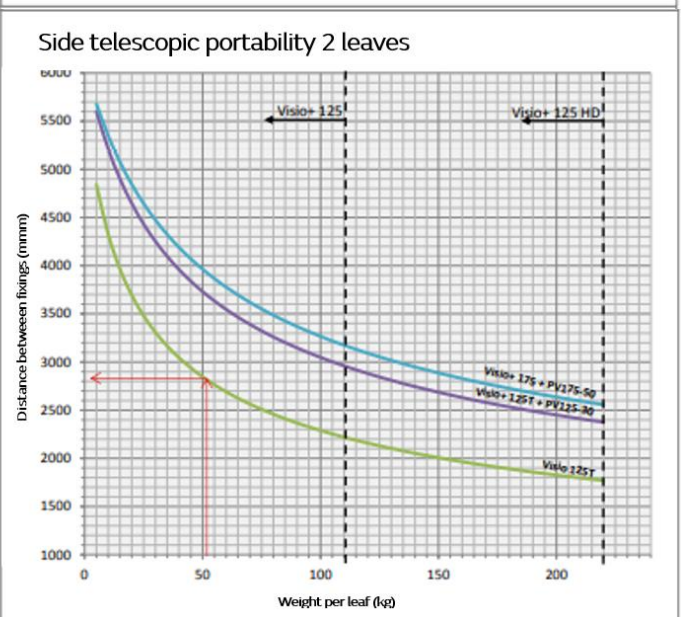
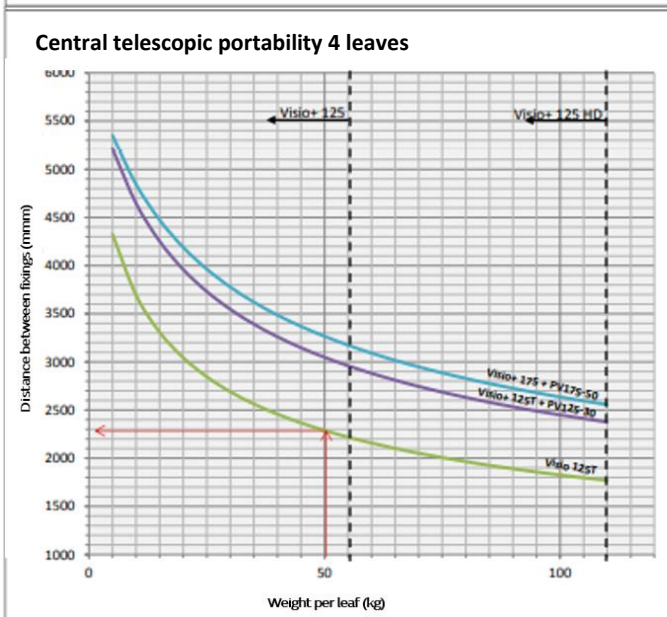
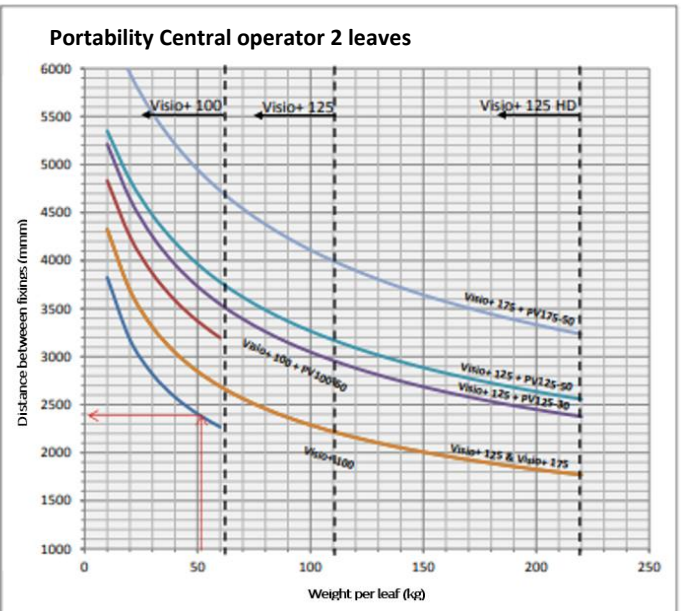
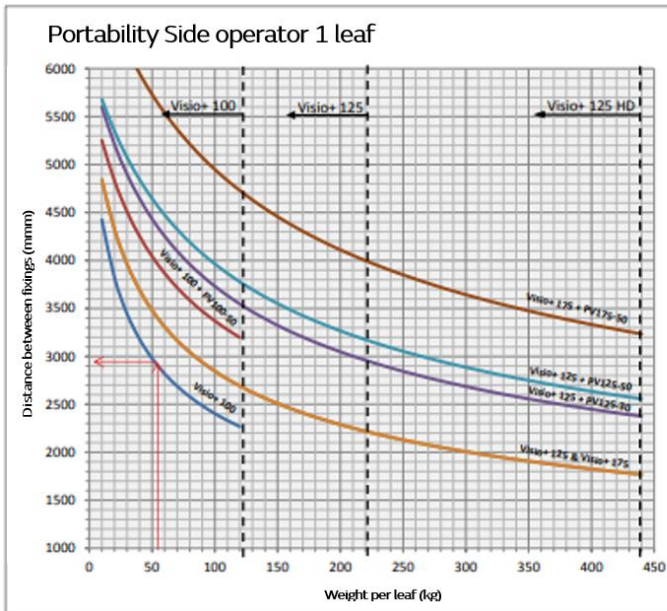
Visio 125T + PV125-30
125 mm height x 262 mm depth



Visio 125T + PV125-50
125 mm height x 280 mm depth



In the self-supporting system, the term portability refers to the minimum distance between fixing points, provided in the attached diagrams based on the weight of the leaves.

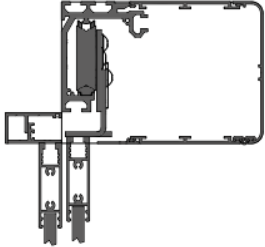
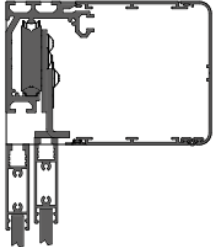
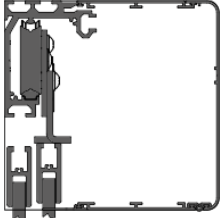


Visio+ Operator


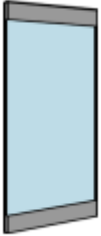
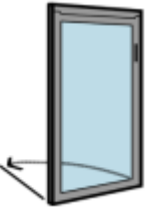

4. Compatibility

The VISIO operator is compatible with the entire range of **Manusa** leaves, as well as any other commercial leaves with a thickness of up to 50mm without the need for intermediate adaptors.

Three different types of leaf assembly are allowed in relation to the operator:

Type of leaf assembly		
Under the Lintel (BD) Fixed leaf mounted under the door lintel	Below the Operator (BO) Fixed leaf mounted below the operator	Hidden Rail (PO) Hidden leaf with 175mm operator
		

The following table shows all available leaves and their compatibility with the different chassis types and fixed-leaf assembly systems:

Leaf compatibility				
		Visio+ 100	Visio+ 125 Visio+ 125HD	Visio+ 125 Telescopic
	Transparent A20-1	BO	BO; BD	-
	Transparent A20-1R	BO	BO; BD	-
	Transparent A35-1	BO	BO; BD	-
	Bare A20-2	BO	BO; BD	BO
	Bare A20-2R	BO	BO; BD	BO
	Bare A35-2	BO	BO; BD	BO
	Framed A20-4	BO	BO; BD	BO
	Framed A30-4	BO	BD	BD
	Framed A35-RPT	-	BD	BD
	Framed A44-4	-	BD	-
	Framed A45-4	-	BD	-
	Comercial Framed	-	BD	-
	Panic break-out A40-S2	-	BD	-
	Panic break-out A44-S4	-	BD	-
	Panic break-out A45-S2	-	BD	-
	Panic break-out A45-S4	-	BD	-
	Panellated P50	-	BD	-

5. Applicable directives and standards

Machinery Directive	2006/42/CE
---------------------	------------

Visio+ Operator

Electromagnetic Compatibility Directive	2014/30/UE
Low Voltage Directive	2014/35/UE
Automatic Pedestrian Doors. Usage Safety	EN 16005
Automatic Pedestrian Doors. Product Standard	EN 16361
Construction Products Regulation	305/2011/CE
Household and Similar Electrical Appliances. Safety. General requirements	UNE-EN 60335-1
Household and Similar Electrical Appliances. Safety. Door Drives	IEC 60335-2-103
Detection Devices	EN 12978

6. Finishes

Anodised: Anodization consists of a protective surface layer generated from an electrolytic process. The minimum anodised thickness is 15 microns.

Lacquered: Lacquering is a protective coating of oven-polymerised plastic paint. The minimum lacquer thickness is 60 microns. The entire RAL range is available.

Visio+ Operator

7. Accessories

Detection

Hybrid sensor DDS-A and DDS-B

Range of dual technology sensors with safety activation and detection functions in the closing area of the leaves.

Sensor DDS-S

Infrared sensor for side safety detection in the opening area of the leaves, or in the closing area on doors with push buttons or other opening actuation systems.

Orascan sensor

Opening and safety sensor for sliding doors that uses dual technology: Artek® radar, which offers convenient, intelligent opening and energy savings, and ToF (Time of Flight) laser technology, which guarantees complete 180° safety coverage of the door threshold, including side safety.

Planar Radar

Safety photocell

Opening Control

Óptima+ proximity detector

Smart-Prox proximity detector

Opening push button: Wired or wireless.

Elbow push button: Wired or wireless.

External key: Wired or wireless.

Coded numerical keypad: Wired or wireless.

RFiD access control system

GRF wireless range for wireless installation

Remote control

Hands-free system: personal access identification.

Access Control

Card reader / RFID

Remote management for smartphone (Android / iOS)

Biometric readers

Security

Automatic bistable lock with manual release

Mechanical break-out system CO48

Visio+100 Belt retainer with CO48 Brake

Electromagnetic Lock (ERP)

Cover lock

Control and Communications

Interface I/O: Module for making locks and special functions.

Selectors

Optima+ Selector: with LED segment display. Manusa Bus connection via cable. Surface mount.

Optima Pocket + Selector: wireless.

DoorWifi App selector: mobile app. Available for Android and iOS.

Smart Selector: with LCD screen and cable connection, Surface mount.

Optima Selector: with illuminated segment display and cable connection. Flush or surface mount.

Smart door

Ledglass® leaves lighting system

People counting system

eSAT 2.0 Technical Service console: Available for Android

Power Supply

Visio+ Operator

12V 12Ah Battery Kit

The characteristics indicated in this manual are purely informative and are in no way binding.
The manufacturer reserves the right to make modifications without prior notice.



Technical service and contact of the manufacturer:
Via Augusta, 85-87, 6ª Planta 08174 Sant Cugat del Vallès · Barcelona · España
manusa@manusa.com +34 902 321 400 | +34 935 915 700