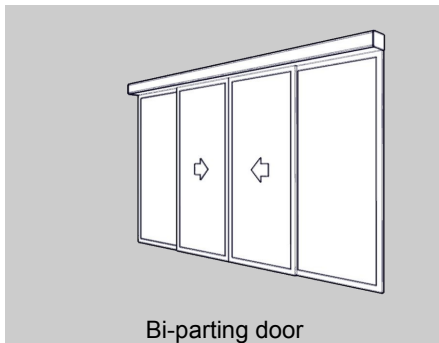
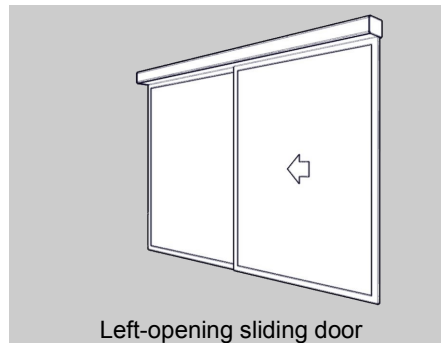


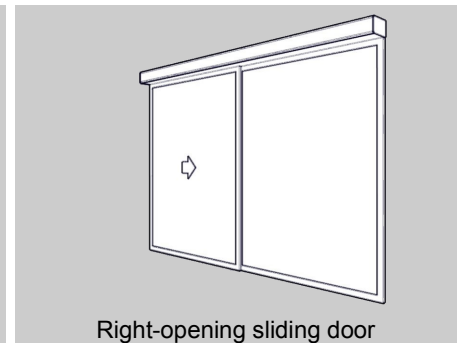
Technical Data Sheet

VISIO OPERATOR**1 DESCRIPTION**

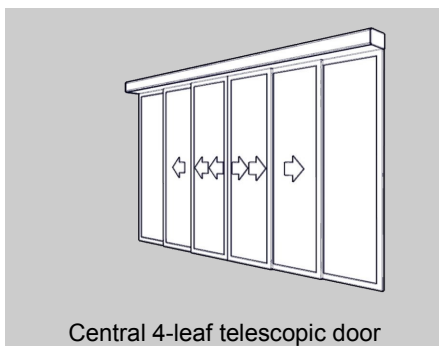
Bi-parting door



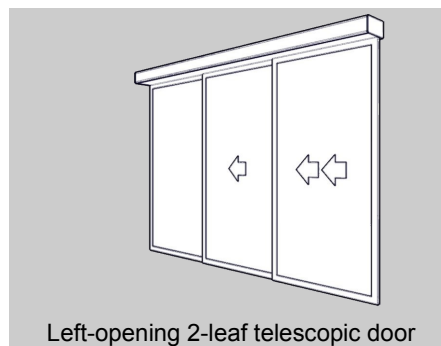
Left-opening sliding door



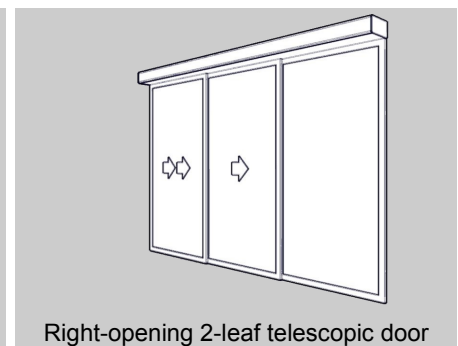
Right-opening sliding door



Central 4-leaf telescopic door



Left-opening 2-leaf telescopic door



Right-opening 2-leaf telescopic door

i

Operator for single side or bi-part automatic sliding doors, in either normal or telescopic configuration. The VISIO range of operators comprises the following:

- **Motor Groups LD, MD and HD** according to the required dynamic features.
- **100, 125 and 175 mm height chassis** to meet all constructive needs.

It offers a complete multi-purpose solution for the automation of pedestrian access areas.

The complete range of VISIO operators benefits from Manusa **Inverter Technology**, with highly reliable **asynchronous motors** incorporating DSP control electronics, which provides the best dynamic benefits while achieving the greatest energy efficiency.

The VISIO family includes new technological and safety features with standards above those required by UNE-EN16005.

They are compatible with the entire range of Manusa door leaves, as well as with commercial leaves with a thickness of up to 50mm.

It also includes new optional possibilities such as:

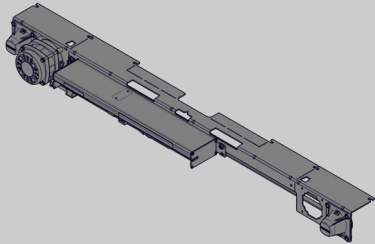
- Connection to **building automation** and control systems.
- **Count** and flow control.
- Extended functions, such as integrated **illumination** and **audio**.

2 VISIO SYSTEM

The Visio system comprises the following basic components:

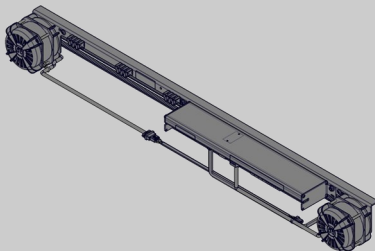
MOTOR GROUPS

Visio LD



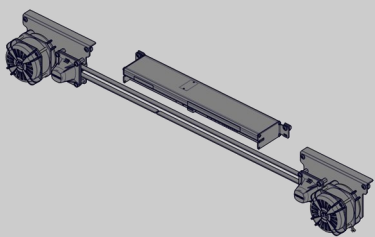
For leaves weighing up to 120 Kg
Single gear motor

Visio MD



For leaves weighing up to 220 Kg
Double Direct Drive motor

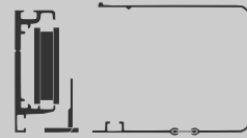
Visio HD



For leaves weighing up to 440 Kg
Double gear motor

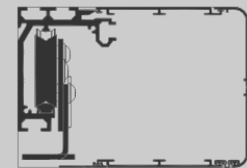
OPERATOR CHASSIS

Visio 100



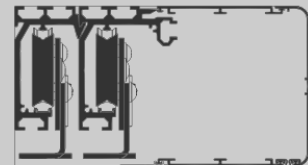
100 mm high x 185 mm wide

Visio 125



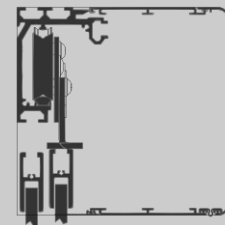
125 mm high x 180 mm wide

Visio 125T

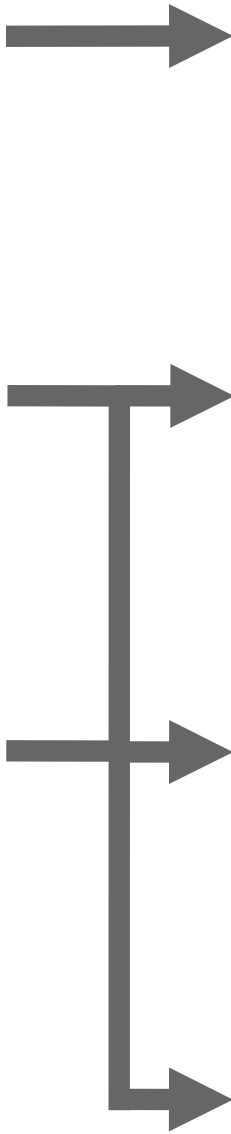


125 mm telescopic height x 230 mm wide

Visio 175



175 mm high x 180 mm wide



3 MOTOR GROUP: TECHNICAL FEATURES

The **manusa** VISIO doors are activated by an operator that offers kinematic features unique in the industry.

ELECTRICAL FEATURES

	Visio LD	Visio MD	Visio HD
Power supply	220-240V +/-6% 50Hz	220-240V +/-6% 50Hz	220-240V +/-6% 50Hz
Optional power supply	100-120V +/-6% 60Hz	100-120V +/-6% 60Hz	100-120V +/-6% 60Hz
Motor	1 x AC Three-phase	2 x AC Three-phase	2 x AC Three-phase
Rated power	95 W	265 W	265 W
Inverter technology (excl. Manusa)	VV-VF	VV-VF	VV-VF
Fuse protection	4 A	4 A	4 A
Operating temperature	-15°C to 50°C	-15°C to 50°C	-15°C to 50°C
Rechargeable fail-safe batteries (open/close)	2x12 V DC 700mAh	2x12 V DC 700mAh	2x12 V DC 700mAh

MOTOR FEATURES

	Visio LD	Visio MD	Visio HD
Opening speed (adjustable), per leaf	≤ 0,7 m/s	≤ 1 m/s	≤ 0,7 m/s
Closing speed (adjustable), per leaf	0.15 to 0.6 m/s	0.15 to 0.6 m/s	0.15 to 0.6 m/s
Closing force adjustable from	40 N to 140 N	40 N to 140 N	40 N to 140 N
Maximum acceleration	1.2 m/s ²	2 m/s ²	2 m/s ²
Independent speed/force regulator	Yes	Yes	Yes
Maximum leaf weight	120 kg	220 kg	440 kg

OTHER FEATURES

	Visio LD	Visio MD	Visio HD
Monitoring of control systems	Yes	Yes	Yes
Fire alarm connection	Yes	Yes	Yes
Opening movement protection	Yes	Yes	Yes
Emergency stop	Yes	Yes	Yes
Closing force limitation	Yes	Yes	Yes
Detection of obstructions	Yes	Yes	Yes
Fail-safe battery	Yes	Yes	Yes
Connectable safety photocells or self-monitored sensors	Yes, maximum 3	Yes, maximum 3	Yes, maximum 3

4 CHASSIS: TECHNICAL FEATURES

The **manusa** VISIO operators offer many assembly varieties depending on the type of task and the construction requirements:

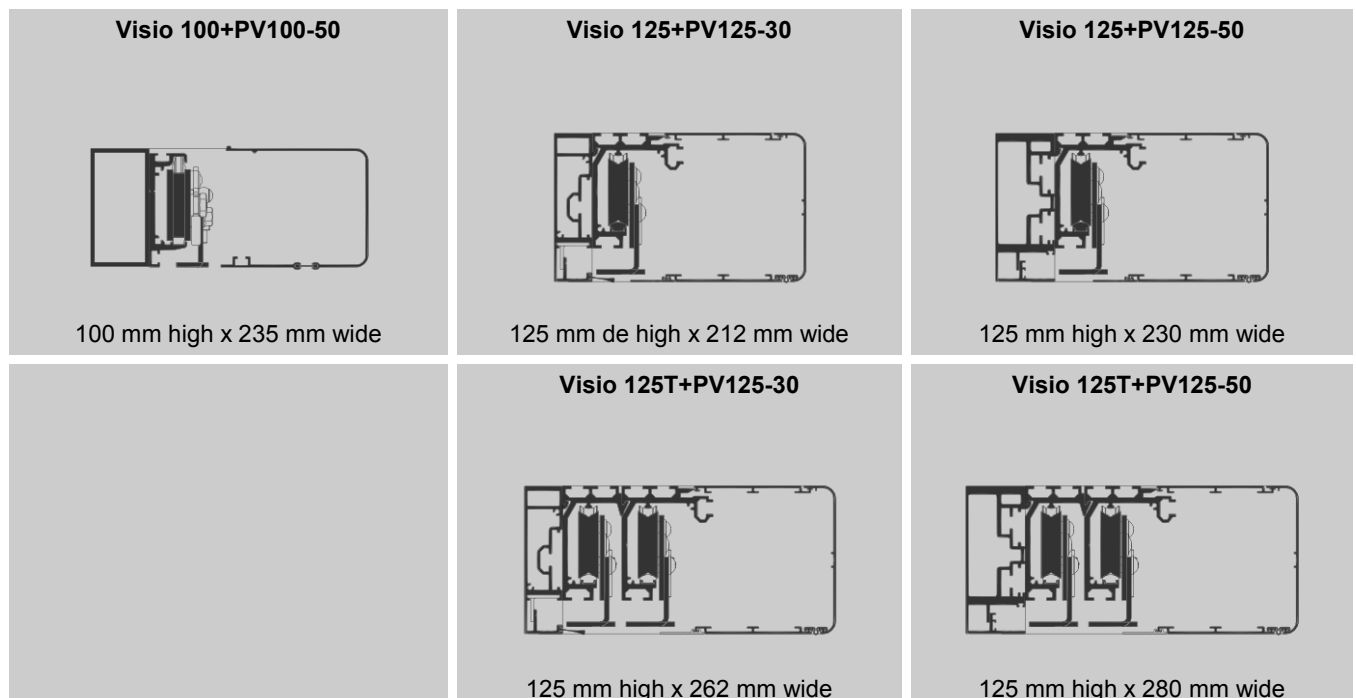
OPERATOR CHASSIS FEATURES

	100	125	125T	175
Operator dimensions (height x depth) [mm]	100 x 185	125 x 180	125 x 230	175 x 180
Sliding operator length [mm] (Standard size sliding clearance) [mm]	2910 ⁽¹⁾ (750-1425)	2910 ⁽¹⁾ (750-1427)	2910 ⁽¹⁾ (1056-1903)	2910 ⁽¹⁾ (750-1427)
Sliding operator length [mm] (Standard size sliding clearance) [mm]	4210 ⁽¹⁾ (750-1425)	4210 ⁽¹⁾ (750-2077)	4210 ⁽¹⁾ (1056-2500)	4210 ⁽¹⁾ (750-2077)
Bi-parting operator length [mm] (Standard size bi-parting clearance) [mm]	4210 ⁽¹⁾ (980-2054)	4210 ⁽¹⁾ (750-2052)	4210 ⁽¹⁾ (1840-2736)	4210 ⁽¹⁾ (750-2052)
Bi-parting operator length [mm] (Standard size bi-parting clearance) [mm]	-	5810 ⁽¹⁾ (750-2852)	5810 ⁽¹⁾ (1840-3803)	5810 ⁽¹⁾ (750-2852)
Maximum height clearance [mm]	3000 ⁽¹⁾	3000 ⁽¹⁾	3000 ⁽¹⁾	3000 ⁽¹⁾
Admissible mounting	Front Side	Front Top Side	Front Top Side	Front Top Side
Admissible suspension beam [mm]	100X50	125X30 125X50	125X30 125X50	-
Operator dimensions with beam [mm]	100 x 235	125 x 212 125 x 230	125 x 262 125 x 280	-

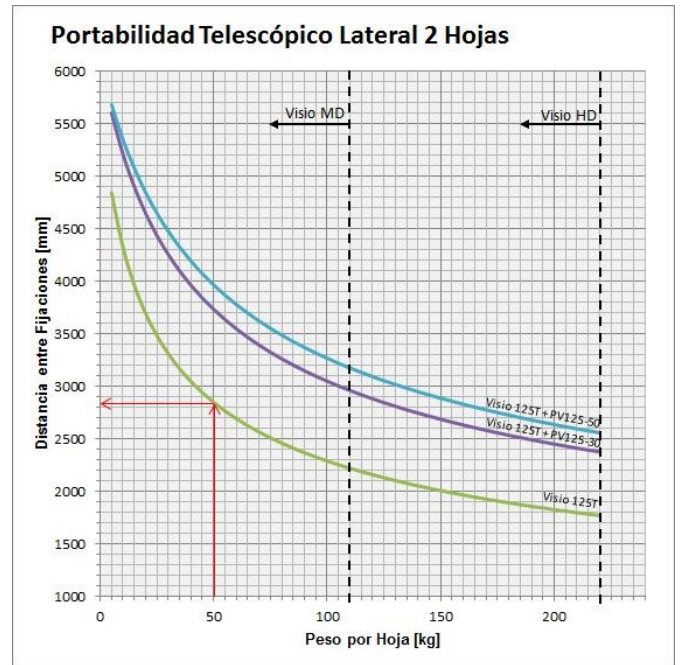
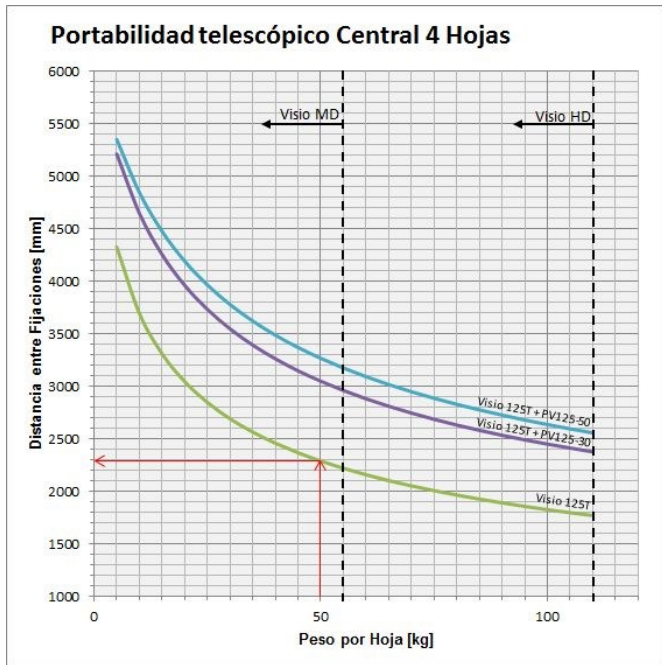
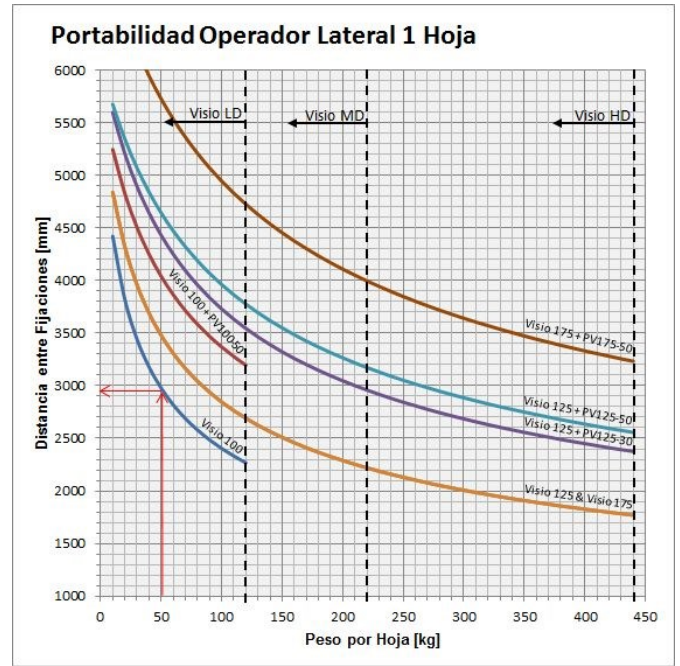
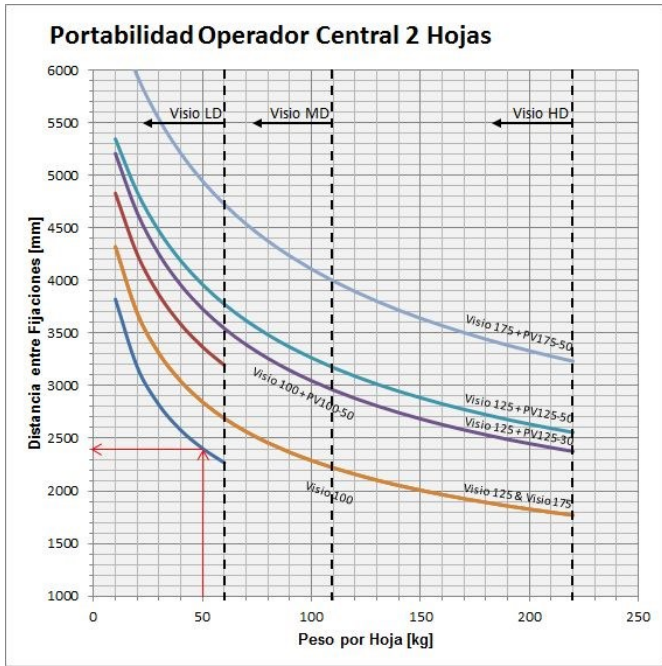
(1) Different dimensions upon request and leaf type

In a **freestanding** assembly, it is recommended to use a system of **suspension beams** in order to reinforce the operator structure; should there be no robust side structure, the use of **goal or upright posts** is recommended.

FREESTANDING SUSPENSION BEAMS



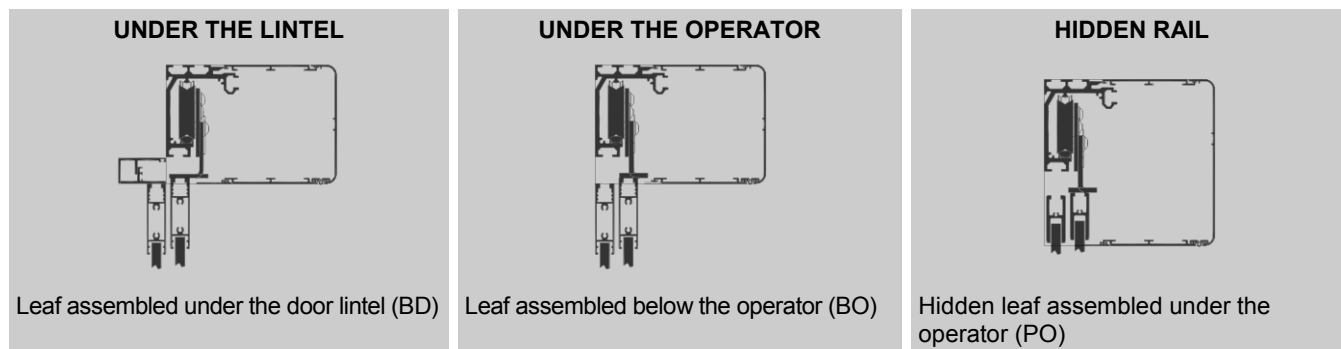
In the freestanding system, the term portability refers to the minimum distance between fixing points, provided in the attached diagrams based on the weight of the leaves:



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:

TYPES OF LEAF ASSEMBLY



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

LEAF COMPATIBILITY

		100	125	125T	175
	Transparent R20	BO	BO ; BD	BO	BO ; BD
	Transparent T20	BO	BO ; BD	BO	BO ; BD
	Transparent A25-1	BO	BO ; BD	BO	BO ; BD
	Bare F20	BO	BO ; BD	BO	BO ; BD
	Bare D20	BO	BO ; BD	BO	BO ; BD
	Bare A25-2	BO	BO ; BD	X	BO ; BD
	Framed E20	BO	BO ; BD	BO	BO ; BD
	Framed A25-4	BO	BO ; BD	BO	BO ; BD
	Framed I30	X	BD	X	BD
	Framed C45	X	BD	X	BD
	Commercial Framed	X	BD	X	BD
	Panic Break-out Easy Z45	X	BD	X	BD
	Panic Break-out SOS S45	X	BD	X	BD
	Panelled P50	X	BD	X	BD

5 APPLICABLE DIRECTIVES AND STANDARDS

Low Voltage Directive	2006/95/CE
Electromagnetic Compatibility Directive	2004/108/CE
Construction Products Regulation	305/2011/CE
Machinery Directive	2006/42/CE
Automatic Pedestrian Doors. Product Standard.	EN 16361
Automatic Pedestrian Doors. Usage Safety.	EN 16005
Household and Similar Electrical Appliances. Safety. Door Drives.	IEC 60335-2-103
Detection Devices	EN 12978

6 FINISHES

The product cover is manufactured in aluminium, allowing all of the finishes available for this material:

Anodised:

Anodisation 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.

7 ACCESSORIES

The **VISIO** operator door is compatible with a wide range of **manusa** accessories.

DETECTION

- Hybrid sensor HDS

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



- AIR HPS sensor

Infrared sensor for side safety detection in the opening area of the leaves.



- Planar radar



- Safety photocell



SELECTORS

- Airlinx selector

Advanced wireless selector for mode control and local diagnosis of the doors with touch keypad and LCD screen.



- Smart selector

Selector with LCD screen and intuitive operation, connected by cable.



- Óptima Selector

Basic selector connected by cable so it can be flushed or surface mounted.



OPENING CONTROL

- Smart-Prox proximity detector



- Opening button



- Elbow button



- Exterior key



- Coded numerical keypad



- RFID access control system



- GRF wireless range for wireless installation:

- Opening button
- Elbow button
- Exterior key
- Coded numerical keypad
- 2/4 channel remote control
- Hands-free system



CONTROL AND COMMUNICATIONS

- Openlinx

Device for connection to building automation systems and communication buses. It also allows for individual remote control thanks to its webserver.



- Manulink software

Exclusive software for the centralised control of a door system from a PC.



- I/O interface

Module for making locks and special functions.



SMART DOOR

- Ledglass® leaves lighting system



- ASD audio system



- Clearance lighting



- Integrated LED display



- People counting system



SAFETY

- Electromechanical lock

Automatic bistable lock with manual release.



- Mechanical break-out system CO48



- Cover Lock

NOTA: 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.

Last revision: February 2014

manusa 

HEAD OFFICE

Av. Via Augusta, 85-87, 6th Floor
08174 Sant Cugat del Vallés
Barcelona - Spain
Tel. +34 902 321 400
Fax +34 902 321 450

www.manusa.com