

manusa 

## CURVO VISIO OPERATOR

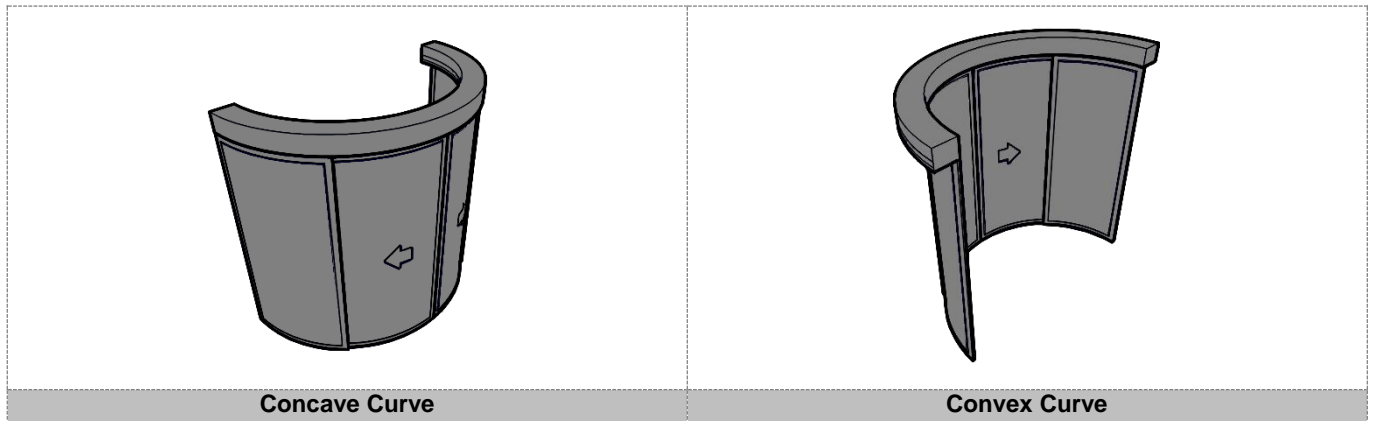


### 1 – DESCRIPTION

This type of automatic door creates exceptional and elegant entrances for buildings without forsaking the free, quick organised and safe flow of people through the centre of the door.

The range of curved or semicircular doors is based on the Visio platform, consisting of 2 curved moving leaves that slide open along the perimeter in opposite directions, in front of 2 other curved fixed leaves with a slightly greater radius, creating a large clear-width area.

The curvature, which may be half a circumference or a few degrees, defines the two possible typologies:



These type of doors enable wind-breaking and/or airlock installations (2 semicircular doors making up the entire diameter). Even though the leaf layout prevents the installation of safety photoelectric barriers, they present beautiful aesthetic lines while providing a large clear-width area in relation to the total space available.

## 2 – MOTOR GROUP TECHNICAL SPECIFICATIONS

MOTOR GROUP TECHNICAL SPECIFICATIONS	CONCAVE	CONVEX
Standard power supply	220-240V +/-6% 50Hz	220-240V +/-6% 50Hz
Power supply to order	100-120V +/-6% 60Hz	100-120V +/-6% 60Hz
Motor	2 x Three-phase AC	2 x Three-phase AC
Nominal power	265 W	265 W
Inverter technology (excl. Manusa)	VV-VF	VV-VF
Protection fuse	4 A	4 A
Operating temperature	-15°C to 50°C	-15°C to 50°C
Rechargeable fail-safe batteries (open/close)	2x12 V DC 700mAh	2x12 V DC 700mAh


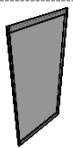
## GR KINEMATIC CHARACTERISTICS MOTOR

GR KINEMATIC CHARACTERISTICS MOTOR	CONCAVE	CONVEX
Adjustable leaf opening speed	≤ 1 m/s	≤ 1 m/s
Adjustable leaf closing speed	0.15 to 0.6 m/s	0.15 to 0.6 m/s
Adjustable closing force	40 N to 140 N	40 N to 140 N
Maximum acceleration	2 m/s <sup>2</sup>	2 m/s <sup>2</sup>
Independent regulation of speed/force	Yes	Yes
Leaf maximum weight	2x90 Kg	2x90 Kg

## 3 – CHASSIS TECHNICAL SPECIFICATIONS

OPERATOR CHASSIS SPECIFICATIONS	CONCAVE	CONVEX
Operator dimensions (height x depth) [mm]	160 x 190	160 x 190
Maximum operator expansion [mm]	5,500	5,500
Minimum/maximum clear width [mm]	800 / 2,000	800 / 2,000
Minimum/maximum outside radius [mm]	900 / 7,000	900 / 7,000
Recommended maximum clear height [mm]	2,400	2,400

## COMPATIBILITY WITH DOOR LEAVES

COMPATIBILITY WITH DOOR LEAVES	CONCAVE	CONVEX
 Top and Bottom Rail F20 Top and Bottom Rail D20	BO	BO
 Framed E20	BO	BO

## 4 – APPLICABLE REGULATIONS

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

## 5 – FINISHES

The product cover is made of aluminium, which allows for all the finishes available for this material:

### Anodised:

The anodised finish consists of a protective covering, created through an electrolyte process. The minimum anodised thickness is 15 microns.

### Lacquered:

The lacquered finish is a protective covering made from plastic paint polymerised in an oven. The minimum lacquered thickness is 60 microns. Complete RAL range available.

## 6 – ACCESSORIES

### DETECTION

**HDS Hybrid Sensor** Range of dual-technology sensors with activation and safety detection functions in the leaves' closing area.

**AIR HPS Sensor** Infra-red technology sensor for side safety detection in the leaves' opening area.

**DDS Hybrid Sensor** Range of dual-technology sensors with activation and safety detection functions in the leaves' closing area.

**DDS-S Sensor** Infra-red technology sensor for side safety detection in the leaves' opening area.

**Planar radar**

### PROGRAM SWITCHES

**Airlinx Selector** Advanced wireless program switch to control door modes and local diagnosis with touch keypad and LCD display.

**Smart Selector** Program switch with an LCD display and intuitive controls, connected via a cable.

**Optima Selector** Program switch connected via a cable. Surface-mounted or recessed options available.

### OPENING CONTROL

**Smart-Prox touchless switch**

**Push button**

**Elbow push button**

**Outside key switch**

**Numeric code keypad**

**RFiD access control system**

**GRF wireless range**

Wireless installation: Push button, elbow push button, outside key switch, numeric code keypad, 2/4 channel remote control, hands-free system.

### SAFETY

**Electromechanical lock** A device for connecting to building automation and communications buses. In addition, thanks to the webserver, it allows individual remote control.

**CO48 mechanical fail-safe**

**Safety guide**

### CONTROL AND COMMUNICATIONS

**I/O Interface**

Module for airlocks and special functions.

**manusa** 

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