manusa 🗗

TRANSLATED DOCUMENT

Installation manual

SMART SELECTOR WITH LCD



Read this instruction manual before use.

In this manual you will find all the necessary information for the correct installation of the product.

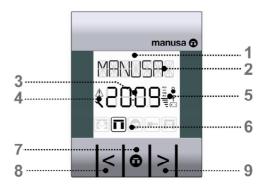
Keep this manual in a safe place for later referral.

0 - INDEX

- 1. DESCRIPTION
- 2. WIRING TO THE DRIVE (BUS)
- 3. WIRING TO THE DRIVE (RELE)
- 4. SELECTOR ASSEMBLY
- 5. TECHNICAL FEATURES
- 6. COMPATIBILITY
- 7. SELECTION OF THE OPERATING MODE
- 8. MAIN FUNCTIONS
 - 8.1. KEYBOARD BLOCK
 - 8.2. PIN CHANGE
 - 8.3. REDUCED OPENING
 - 8.4. PEOPLE COUNTER SENSOR
 - 8.5. TIME AND DATE MANAGEMENT
 - 8.6. LANGUAGE
 - 8.7. CONTRAST
- 9. USER MENU
 - 9.1. MENU NAVIGATION
 - 9.2. OPTIONS AVAILABLE IN MENU
- 10. TECHNICAL SERVICE MENU
 - 10.1. NAVIGATION MENU
 - 10.2. OPTIONS AVAILABLE IN MENU
- 11. SAFETY AND USE
- 12. SELECTOR RESET
- 13. MALFUNCTION ALERTS

1 - DESCRIPTION

Control device to be used exclusively with the Visio operator, which allows users to select the door's operating mode, modify operating parameters, view malfunctions and other data such as time and number of opening cycles. The selector comprises an LCD screen and three function buttons:

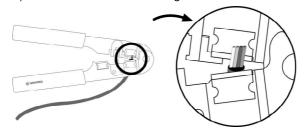


- 1. LCD display
- **2.** Message viewing area to display the operating mode, setup menus, malfunction alerts, etc.
- **3.** Numeric data area. You can view data such as the time, the number of opening cycles and the values of the operating parameters.
- 4. Malfunction alerts icon area
- **5.** Additional symbols area. Displays the values of the operating parameters, and selector status.
- 6. Area of icons representing the door operating mode.
- 7. Confirmation button.
- 8. Right selection button.
- 9. Left selection button.

2 - WIRING TO THE DRIVE (BUS)

A 10 mt. cable is delivered with the selector, which includes a connector ready to plug-in, and an additional connector in case you need to cut-down the cable length. Follow these instructions to cut the cable:

- 1. Cut the cable to the required distance.
- 2. Peel off the wire as shown below, leaving 6 mm (+/-1mm) on the 4 wires to allow fitting the connector.



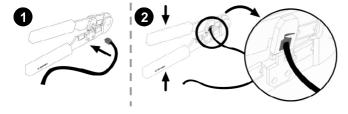
3. Check that the wires are clean and there is no contact between the 4 wires, as this may cause a short-circuit.



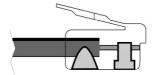
4. Fit the wires into the connectors. Check polarity as shown in the drawing below, making sure that the flap of the connector on one end is facing the cable nerve, and the flap from the opposite connector is facing the opposite side of the cable.



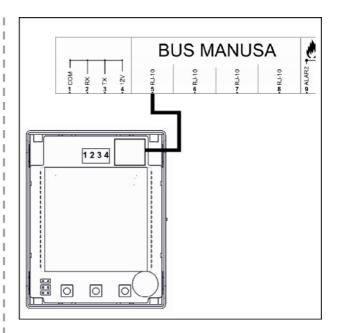
5. Use the crimp tool to crimp the connector



6. Check that the connector is fixed to the cable housing and that the metal tips of the connector make contact with the wires.



Use the cable supplied with the operator to connect the selector to the terminals on the control panel.



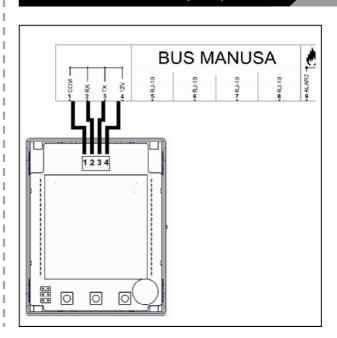
Connect both ends of the cables to the RJ-10 terminals on the control panel and selector, and let the selector configure itself automatically and get ready for use. During this process you may see the message "LOADING DATA" for a few seconds on the LCD display.

If the operating mode is not shown after 20 seconds, press the 3 buttons simultaneously until the message "ADDRESS RESET" is shown on the display.

If a second selector will be used, this can be plugged to the RJ-10 connector on the control panel or to any other accessory already plugged to it.

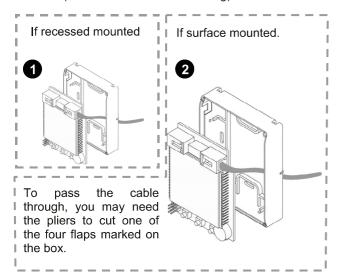
Remark: Do not connect the second selector until the first one is in operation!

3 - WIRING TO THE DRIVE (RELE)

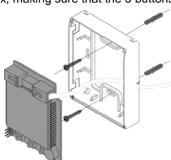


4 - SELECTOR ASSEMBLY

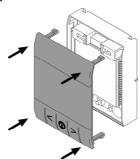
- 1. Connect the RJ connector to the selector
- **2.** Pass the cable through the plastic box, choosing one of the two options shown below, which depends on the fixing method (recessed or surface mounting).



3. Screw the box to the desired surface through the holes made to this effect. Clip the circuit with LCD panel to the plastic box, making sure that the 3 buttons are facing down.



4. Fit the selector cover, with the 3 buttons in the control circuit facing the buttons on the cover.



5 - TECHNICAL FEATURES

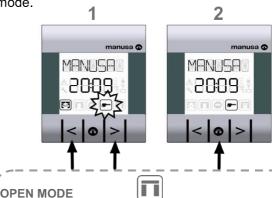
Power supply	12 V DC
Power consumption	6 mA
Operating temperature	0 to 50°C
Measurements:	100x75x26 mm
Maximum length of cables	10m

6 - COMPATIBILITY

The SMART selector is only compatible with the **manusa** VISIO operator.

7 - SELECTION OF THE DOOR OPERATING MODE

You can choose the door operating mode by pressing the left or right selection buttons. Area 6 of the selector will blink with the icon of the mode selected. Use the central confirmation button to accept the mode.



The door will open and stay in that position. In this mode, the leaves can be moved manually.



CLOSE MODE



In doors without auto lock, this operating mode closes the door and releases the leaves. In doors with auto lock, the leaves will close and will become blocked.



Note: if the interior detector or pushbutton is activated during the closing cycle, the leaves will reopen and will then reattempt a new closing cycle until the leaves are fully closed.

*Whenever required, the Technical Service may configure the door to delay the activation of the lock, to let the user reach the door and exit the premises before the leaves become blocked.

AUTOMATIC MODE



The door will complete a full open & closing cycle each time a detector (interior or exterior) is activated.



EXIT ONLY MODE



The door will only open when the interior detector or push button is activated.

*Note: if the door has an automatic lock, the Leaves will remain blocked until they are in closed position.



8 - MAIN FUNCTIONS

8.1 - KEYPAD BLOCK

To avoid undesired manipulations, you may block the selector keypad by simultaneously pressing the left and right buttons for 2 seconds. Zone 5 of the display will show a small lock sign 🔒

In this mode, if any button is pressed, the message KEYPAD BLOCK will show on the display.

To unblock the keypad, simultaneously press again the left and right buttons for 2 seconds. Then enter the pin code to unblock.

8.2 - PIN CHANGE

By default, the PIN is set to 1111. To modify it, access the PIN menu (refer to section 9).

8.3 - REDUCED OPENING

In Automatic and Exit Only mode, the door may be programmed to "Reduction opening" to reduce the opening width of the door when the this opens.

To activate this mode, select option ACTIV REDUCT OPEN in the ADJUSTMENTS menu.

8.4 - PEOPLE COUNTING SENSOR

Subject to model features, the Visio operator also has a people counting sensor. If you wish to view the count on the display, select menu SHOW, and then option PEOPLE.

If you wish to reset the people counting sensor to zero, you must select the option RESET NUM. PEOPLE on the menu COUNTING MECHANISMS (refer to section 6)

8.5 - DATE AND TIME MANAGEMENT

The SMART selector may show the current time in area 3 of the display.

To view the time, select option TIME from the menu SHOW. (refer to section 9)

To adjust the date and time, go to options DATE and TIME in the menu CLOCK.

8.6 - LANGUAGE

There are four languages available: Catalan, Spanish, English and French. To change the language, select option LANGUAGE from the menu ADJUSTMENTS.

8.7 - CONTRAST

To modify the contrast of the display, go to option CONTRAST in the menu ADJUSTMENTS (see section 6).

9 - USER MENU

9.1 - MENU NAVIGATION

- Enter the user menu:



Press the central button for 1 second.

- Navigate through the different submenus:



To navigate through the different menu options, press the left and right buttons.

To change the values of the configurable options, press the left and right buttons of the selector.

- To validate selection and set-up changes:



Press the central button to validate the set-up changes and to validate the selection of an option or submenu.

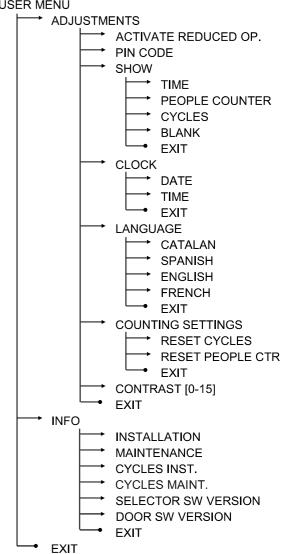
- To exit a menu or submenu:



Select the option EXIT and press the central button to exit the current menu or submenu and go to the main screen or the menu immediately above.

NAVIGATION MAP:

→ USER MENU



9.2 - OPTIONS AVAILABLE IN THE USER MENU

REDUCED OPENING ACTIVATION

This option enables / disables the reduced opening mode. To activate, select the option ACTIV REDUCTION OPEN on the ADJUSTMENTS menu (the message in area 2 turns to DEACTIV REDUCTION OPEN). To return to the adjustments menu, press the left or right buttons.

The opening width can be customised by an official service technician.

PIN

This option allows the end user to change the Personal Identification Number. To program the code, select the PIN option. Once inside the menu, enter the current PIN code with the selection buttons and press the central button to confirm. Then enter and verify the new PIN following the same procedure. The message PIN MODIFIED will show on the display. To exit, press the central button.

SHOW

Use this option to choose what will appear in area 3 of the screen: time, people counter, opening cycles or blank. To program this option, go to the desired option (for instance CYCLES) using the left or right button and confirm using the central button. To exit, go to EXIT and confirm.

CLOCK

Use this option to change the current date and time. To adjust time and date, select the option DATE or TIME with the selection buttons, and confirm pressing the central button.

LANGUAGE

You can choose the language display from four different languages: Catalan, Spanish, English and French.

Select the language with the right or left buttons and confirm pressing the central button (the message On appears in area 3).

COUNTER SETTINGS

Use this menu to reset the people and cycle counters to zero

To reset, select the desired counter (people or cycles) using the selection buttons (the current value of the counter will appear in area 3) and press the central button to reset the value to zero.

CONTRAST

This option modifies the screen contrast. To modify the value, press the central button and change using the selection buttons.

The higher the number, the higher the contrast. To save the settings, press the central button. To exit, go to EXIT and confirm.

INSTALLATION

Shows the installation date of the door.

MAINTENANCE

Shows the date of the last technical service or intervention

CYCLES INST

Shows the total number of cycles since the installation date

CYCLES MAINT.

Shows the total number of cycles since the last technical service or intervention.

SELECTOR SOFT

Shows the current software version of the SMART selector.

DOOR SOFT

Shows the current software version of the door.

10 - TECHNICAL SERVICE MENU

10.1 - MENU NAVIGATION

- To enter the Technical Service functions:



Press the left button repeatedly, while holding the right button pressed, until you read message MENU ST on the display.

- Navigate through the different submenus:



To navigate through the different menu options, press the left and right buttons.

To change the values of the configurable options, press the left and right buttons of the selector.

- To validate selection and set-up changes:



Press the central button to validate the set-up changes and to validate the selection of an option or submenu.

- To exit a menu or submenu:



Select the option EXIT and press the central button to exit the current menu or submenu and go to the main screen or the menu immediately above.

NAVIGATION MAP:

→ MENÚ ST

- → OPENING SPEED
- CLOSING SPEED
- CLOSING FORCE
- → HOLD OPEN TIME
- → CLOS COUNTDOWN
- → INS RADAR SENS
- ── OUT RADAR SENS
- → LANGUAGE
- → RED OPENING ADJUST
- ──→ SELF ADJUSTMENT
- SELECTOR VERSION
- → DOOR VERSION
 - → RESET USR PIN

10.2 - OPTIONS AVAILABLE THROUGH THE TECHNICAL SERVICE MENU

OPENING SPEED

Adjusts the opening speed of each leaf

Value: 400 to 1000 mm/s.

CLOSING SPEED

Adjusts the closing speed of each leaf

Value: 150 to 600 mm/s.

CLOSING FORCE

Adjusts the closing forcé of each leaf

Value: 40 to 140N.

HOLD OPEN TIME

Adjusts the time the door leaves will stay open after they reach the open position, to later close again.

Value: 0 to 9,9 sec.

CLOS COUNTDOWN

Adjusts the timer that will keep the lock unblocked before changing to block mode, after selecting door CLOSE.

Value: 0 to 99,9 sec.

INS RADAR SENS

Adjusts the sensitivity of the interior radar.

Value: 1 a 25

OUT RADAR SENS

Adjusts the sensitivity of the exterior radar.

Value: 1 to 25

LANGUAGE

To may choose one of the following languages: Catalan, Spanish, English and French.

Select the language using the left and right buttons, and press the central button to confirm your selection. Go to EXIT to save the new value.

RED OPENING ADJUST

This parameter adjusts the máx opening stroke of each door leaf, when the door is in "Reduced opening" mode.

The max. and min. values depend on the actual clear opening of the door.

SELF ADJUSTMENT

Use this parameter to run the self-adjustment after installing the door.

Press the central button once until "RUN SELF-ADJUSTMENT" is shown on the display, and press a second time to run the self-learning process.

Select EXIT and press the central button to leave the menú.

SELECTOR VERSION

Displays the software versión inside the selector.

DOOR VERSION

Displays the software versión in the door's main board.

RESET USR PIN

Reset the user PIN to the factory value (1111) pressing the central button, until message "PIN RESET" is shown on the display. Press the left or right buttons to EXIT this menú.

11 - SAFETY AND USE: PURPOSE OF USE AND USES TO BE AVOIDED

Check the working environment before performing any intervention on the door:

- Keep the working space clean and neat.
- Ensure a good illumination.
- Sign the limits of your working space, to keep other people away.

Wear proper working clothes:

- Don't wear loose clothes, jewelry, ties or other elements which may be trapped by elements in motion.
- Tie up long hear.
- Always use the Individual Protection Equipment

Avoid bad habits during work:

- Avoid positons which may make you feel tired
- Always stand firmly on the floor.
- Do not use any parts of machines as supporting elements for people or objects.

Keep always alert:

- Look after your work
- Use common sense.

The SMART selector has been designed to select the operating mode of **manusa** automatic doors and to set up and adjust the different operating parameters and functions. The warnings on this selector will be complemented and extended with additional indications and warnings contained in the manual supplied with the automatic door, on which the selector is mounted.

Below we list some of the uses to be strictly avoided:

- Do not modify the selector or any of its components.
- Do not allow children to play with the selector.
- Do not disconnect, manipulate or put out of service the doors' safety components.
- Do not use any spare parts which are not the original parts provided by manusa.
- Do not use the selector as a support element for objects or persons
- Do not, under any circumstance, open and manipulate the inside of the selector or its connections, unless this is carried out by a **manusa** authorised service technician.

This list includes unintended uses which are reasonably foreseeable in connection with the use of this selector. However, **manusa** is not responsible for any possible accidents or damage caused by any other misuse not listed above.

12 - RESET THE SELECTOR ADDRESS

If the selector is not detected by the door, proceed to reset the internal address of the selector. To reset, press the three buttons simultaneously until message "ADDRESS RESET" is shown on the display.

13 - MALFUNCTIONS /



Should the supervising program detect malfunctions in the operation of the door, the screen will show a code number accompanied by a malfunction icon:

Should a malfunction message appear on the display, in most cases, you may clear this malfunction code and resume normal operation by choosing the OPEN operating mode on the selector, followed by the AU-TOMATIC mode.

Should the malfunction persist after performing this operation, please contact manusa's Technical Service.

	Should the malfunction persist after perfo		
MALFUNCTION	POSSIBLE CAUSE	SOLUTION	
OVERCURRENT 0001 Overcurrent in motor	Mains overcurrent Short circuit in motor or circuit.	a. Verify network tension b. Verify motor resistance: (70 Ohm)	
sos 0002 Emergency signal activated	a. Panic break-out leaves open. b. Emergency push button activated.	a. Close break-out leaves fully and verify magnetic switch and leaf magnets. b. Bridge SOS and COM terminals.	
OBST CLOSING 0003 Obstruction on dosing	Obstruction within the closing cycle.	a. Remove obstruction. b. Check eccentric wheels and floor guides. c. Increase closing force and speed. d. Change to OPEN followed by AUTOMATIC mode	
OUTSIDE KEY SWITCH 0004 Outside key switch activated	The outside key switch has not been removed from the device.	Remove key from the key switch device.	
DOOR PARAM MEM. 0005 Parameters memory	Parameter memory is falling.	a. Run self-adjustment > Disconnect the door from the power supply > turn power on again. b. If the problem persists, replace the control panel.	
OBST. OPENING 0006 Obstruction on opening	Obstruction within the opening cycle.	a. Remove obstruction. b. Check eccentric wheels and floor guides. c. Increase opening force and speed.	
PHOTOCELL 0008 IR barriers	The IR barriers are blocked for a period > 1'.	a. Clean optics. b. Check the alignment.	
FIRE ALARM 0009 Infrared barriers	Fire alarm signal activated.	Check there is no interference on the alarm signal.	
BATTERY LOW 0011 Panic door system	a. Battery low. b. Low mains voltage.	verify battery tension Ub>27v Replace control panel.	

MALFUNCTION	POSSIBLE CAUSE	SOLUTION
INSIDE RADAR 0012 Malfunction in internal radar	Radar contact permanently closed for a period of > 1'.	a. Check connections. b. Replace inside radar.
OUTSIDE RADAR 0013 Malfunction in external radar	Radar contact permanently closed for a period of > 1'.	a. Check connections. b. Replace outside radar.
PHOTOCELL 3 0014 IR Barrier 3	The thid IR barrier is blocked.	a. Clean optics. b. Check the alignment .
MOTOR CONTROL 0015 Malfunction in the motor control	Malfunction in the control board.	a. Change to OPEN followed by AUTOMATIC mode b. Replace control panel.
SAFETY SENSOR 0016 Malfunction on side sensors	Safety opening signal activated.	a. Check connections. b. Replace radar.
The LCD screen does not light up	The selector has no power.	a. Check connections. b. Replace selector.
Communication fault occurs when the following message appears on screen: "loading data"	No communication with the operator.	a. Check connections. b. Reset selector c. Run self-adjustment. d. When more than one selector is installed, connect one to the control panel first, followed by the others respecting the sequence. See chapter 6.

NOTE: The features included in this document are given for information purposes only, and are not binding.

The manufacturer reserves the right to modify its products without prior

Last updated: September 2014



HEAD OFFICE

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

Fax +34 902 321 450

FACTORY

Ctra. Pla de Sta. María 235-239 43800 Valls - Tarragona (Spain) Tel. +34 902 321 700 Fax +34 902 321 750

www.manusa.com