



ENTRE//MATIC

CE

VALOR

IP1950EN - rev. 2011-03-31



EN

Installation and maintenance manual for sliding door

(Translation of the original instructions)



ISO 9001  
Cert. n° 0957

**DITEC S.p.A.**

Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY

Tel. +39 02 963911 - Fax +39 02 9650314

[www.ditec.it](http://www.ditec.it) - [ditec@ditecva.com](mailto:ditec@ditecva.com)

## INDEX

Subject	Page
1. General safety precautions	3
2. Declaration of incorporation of partly completed machinery	3
2.1 Machinery directive	3
3. Technical data	4
3.1 Applications	4
4. Standard installation - Standard installation references	5
5. Installation of the automation	6
5.1 VALOR box fastening	6
5.2 VALOR T box fastening	7
5.3 VALOR H box fastening	8
5.4 Preparation of glass door wing	9
5.5 VALOR - VALOR H door wing installation and adjustment	10
5.6 VALOR T door wing installation and adjustment	11
5.7 Floor guide installation	13
5.8 Belt adjustment	14
5.9 Lock installation	14
6. Electrical connections	15
7. Ordinary maintenance program	15
8. User instructions	16
8.1 General safety precautions	16
8.2 Manual release instruction	17
9. Function selector user instructions	18

### All rights reserved

All data and specifications have been drawn up and checked with the greatest care. The manufacturer cannot however take any responsibility for eventual errors, omissions or incomplete data due to technical or illustrative purposes.

## 1. GENERAL SAFETY PRECAUTIONS



This installation manual is intended for professionally competent personnel only.

Before installing the product, carefully read the instructions.

Bad installation could be hazardous.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.

Before installing the product, make sure it is in perfect condition.

Do not install the product in an explosive environment and atmosphere: gas or inflammable fumes are a serious hazard risk.

Before installing the motors, make all structural changes relating to safety clearances and protection or segregation of all areas where there is risk of being crushed, cut or dragged, and danger areas in general.

Make sure the existing structure is up to standard in terms of strength and stability.

The motor manufacturer is not responsible for failure to use Good Working Methods in building the frames to be motorised or for any deformation occurring during use.

The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account: applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorised door.

Apply hazard area notices required by applicable regulations.

Each installation must clearly show the identification details of the motorised door.

## 2. DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

(Directive 2006/42/EC, Annex II-B)

The manufacturer DITEC S.p.A. with headquarters in Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY

Declares that the automation for sliding doors type VALOR

- Has been constructed to be installed on a manual door to construct a machine pursuant to the directive 2006/42/EC. The manufacturer of the motorised door shall declare conformity pursuant to the directive 2006/42/EC (annex II-A), prior to the machine being put into service.
- Conforms to applicable essential safety requirements indicated in annex I, chapter 1 of the directive 2006/42/EC.
- Conforms to the Low Voltage Directive 2006/95/EC.
- Conforms to the Electromagnetic Compatibility Directive 2004/108/EC.
- Technical documentation conforms to annex VII-B to the directive 2006/42/EC.
- The technical file is managed by Alessandro Petenà with offices in Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY.
- A copy of technical documentation will be provided to national competent authorities, following a suitably justified request.

Caronno Pertusella,  
31-03-2011

Marco Zini  
(Managing Director)

### 2.1 Machinery Directive

Pursuant to Machinery Directive (2006/42/CE) the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical file which must contain the documents indicated in Annex V of the Machinery Directive; (The technical file must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door);
- draft the EC declaration of conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the CE marking on the power operated door in accordance with point 1.7.3 of Annex I of the Machinery Directive.

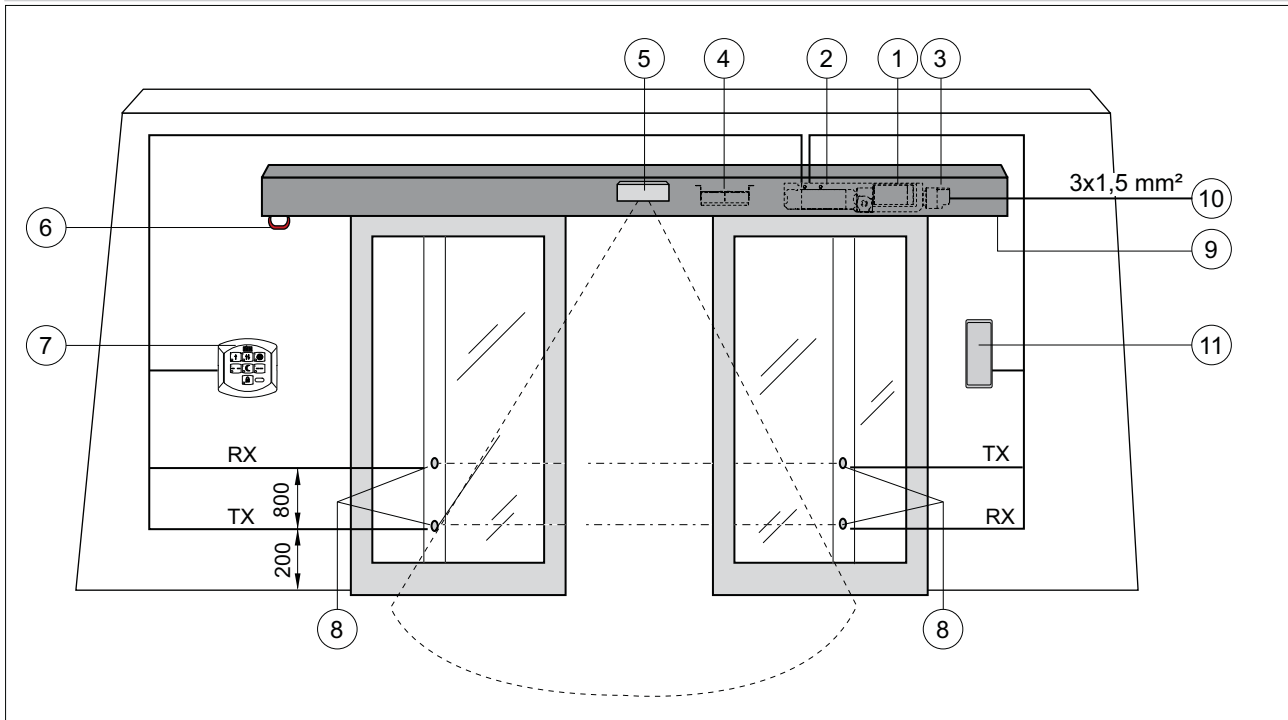
### 3. TECHNICAL DATA

	VALOR L - H	VALOR P	VALOR N	VALOR T
Power supply	230 V~ / 50-60 Hz	230 V~ / 50-60 Hz	230 V~ / 50-60 Hz	230 V~ / 50-60 Hz
Absorption	1 A	1 A (1,6 A with weight > 200 kg)	1 A (1,6 A with weight > 200 kg)	1 A (1,6 A with weight > 200 kg)
Accessories power supply	24 V= / 0,5 A max	24 V= / 0,5 A max	24 V= / 0,5 A max	24 V= / 0,5 A max
Max speed 1 wing	0,8 m/s	0,8 m/s	0,8 m/s	/
Max speed 2 wings	1,6 m/s	1,6 m/s (1,2 m/s with weight > 180 kg)	1,6 m/s (1,2 m/s with weight > 200 kg)	0,8 m/s
Max speed 4 wings	/	/	/	1,6 m/s
Intermittence	S3 = 100%	S3 = 100%	S3 = 100%	S3 = 100%
Service life	5 - HEAVY DUTY	6 - CONTINUOUS	6 - CONTINUOUS	6 - CONTINUOUS
Max. door weight 1 wing	100 kg	120 kg (100 kg 1 break-out door wing)	120 kg	200 kg
Max. door weight 2 wings	180 kg	220 kg (180 kg 2 break-out door wings)	240 kg	260 kg
Weight (reinforced wheels) 1 wing	/	/	150 kg	/
Weight (reinforced wheels) 2 wings	/	/	300 kg	/
Temperature	-20°C / +55°C Batteries: -10°C/+50°C	-20°C / +55°C Batteries: -10°C/+50°C	-20°C / +55°C Batteries: -10°C/+50°C	-20°C / +55°C Batteries: -10°C/+50°C
Degree of protection	IP20	IP20	IP20	IP20

#### 3.1 Application

- Performance characteristics are to be understood as referring to the recommended weight (approx. 2/3 of maximum permissible weight). A reduction in performance is to be expected when the access is made to operate at the maximum permissible weight.
- Service class, running times, and the number of consecutive cycles are to be taken as merely indicative having been statistically determined under average operating conditions, and are therefore not necessarily applicable to specific conditions of use.
- The actual performance characteristics of each automatic access may be affected by independent variables such as friction, balancing and environmental factors, all of which may substantially alter the performance characteristics of the automatic access or curtail its working life or parts thereof (including the automatic devices themselves). When setting up, specific local conditions must be duly borne in mind and the installation adapted accordingly for ensuring maximum durability and trouble-free operation.

## 4. STANDARD INSTALLATION



REF.	CODE	DESCRIPTION
1		Drive unit
2	EL20	Control panel
3	AL2	Transformer
4*	VALABE VALABC	Emergency batteries No-break batteries
5*		Open sensor
6*	VALSB LOKSBM	Release handle
7*	COME COMHK	Functions selector switch
8	CELPR	Photocells
9*	MD1	Accessory and supplementary functions connection module
10		Power supply
11*	PFP1/PFP2	Open button

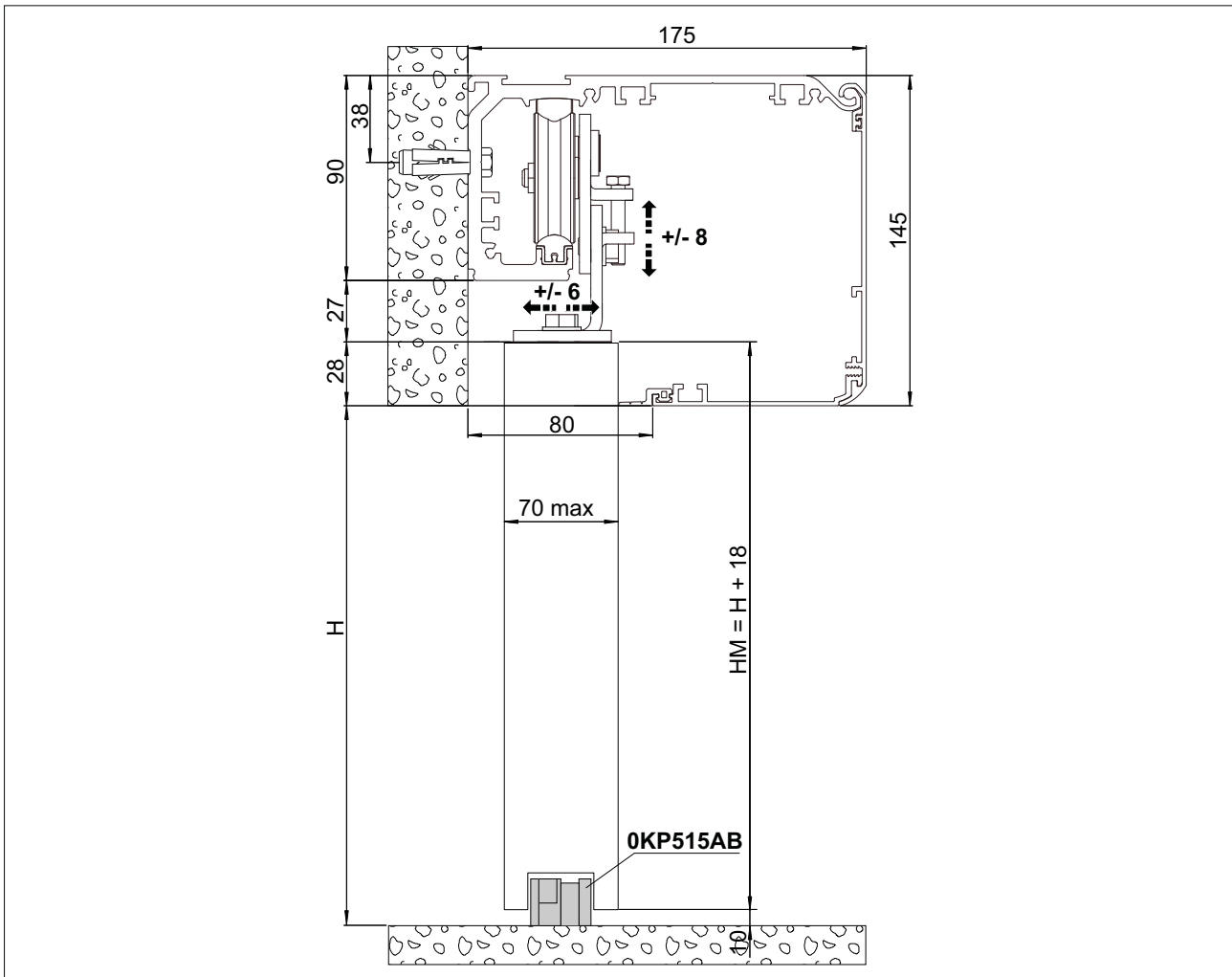
\* Optional Code



**NOTE:** the given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

## 5. INSTALLATION OF THE AUTOMATION

### 5.1 VALOR box fastening



Unless otherwise specified, all measurements are expressed in millimetres (mm).

The VALOR automation wall fixing measurements are illustrated in the diagram, considering that the door wing profiles are not of our production.

If the door wings are made with DITEC profiles of the following series: PAM16, PAM23, PAM45, refer to the measurements in the related manuals.

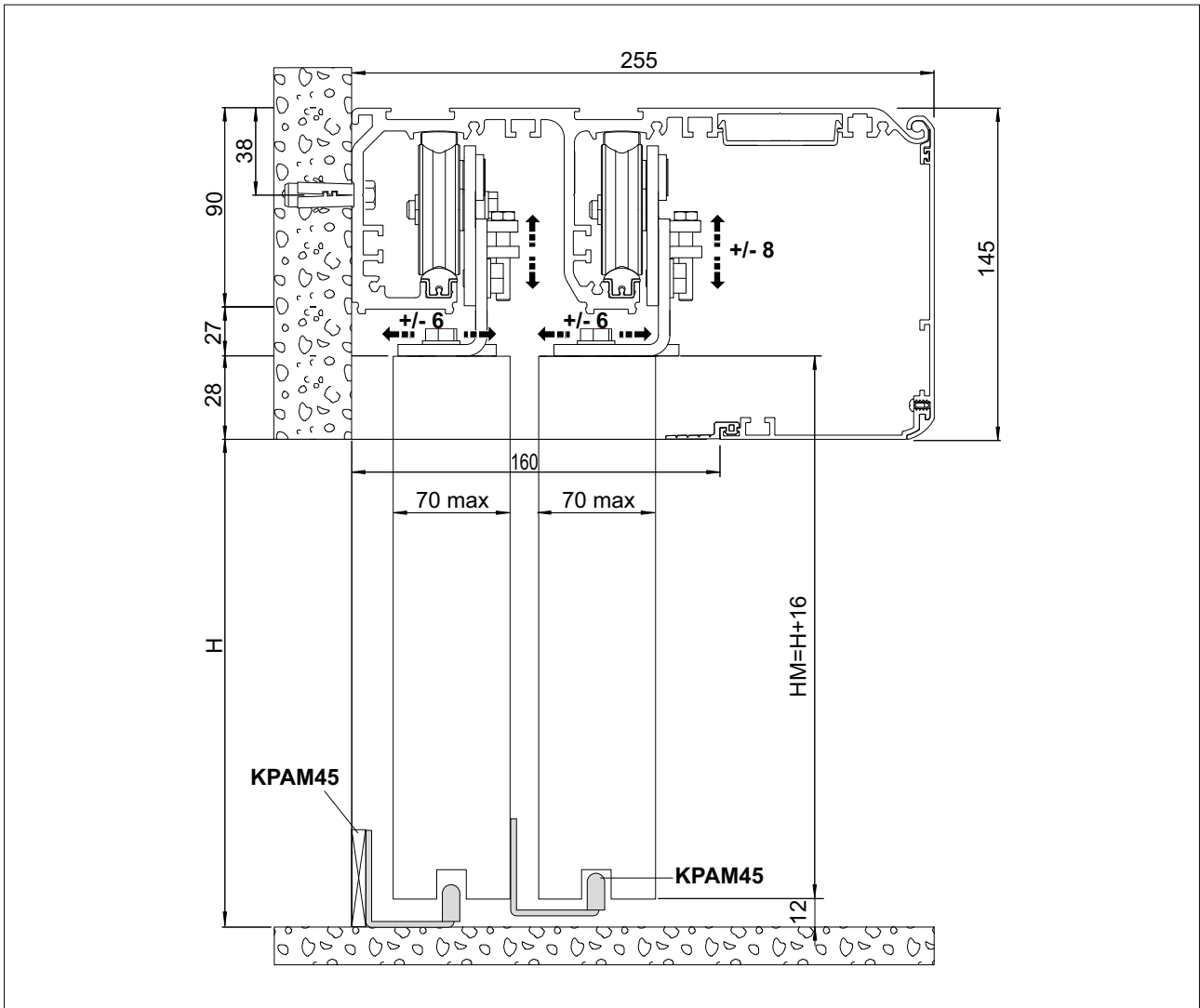
**WARNING:** if the door wings are fitted with a break-out device, use the carriages with brackets with 3 fixing points.

Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.

Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.

**WARNING:** The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

## 5.2 VALOR T box fastening



The VALOR T automation wall fixing measurements are illustrated in the diagram, considering that the door wing profiles are not of our production.

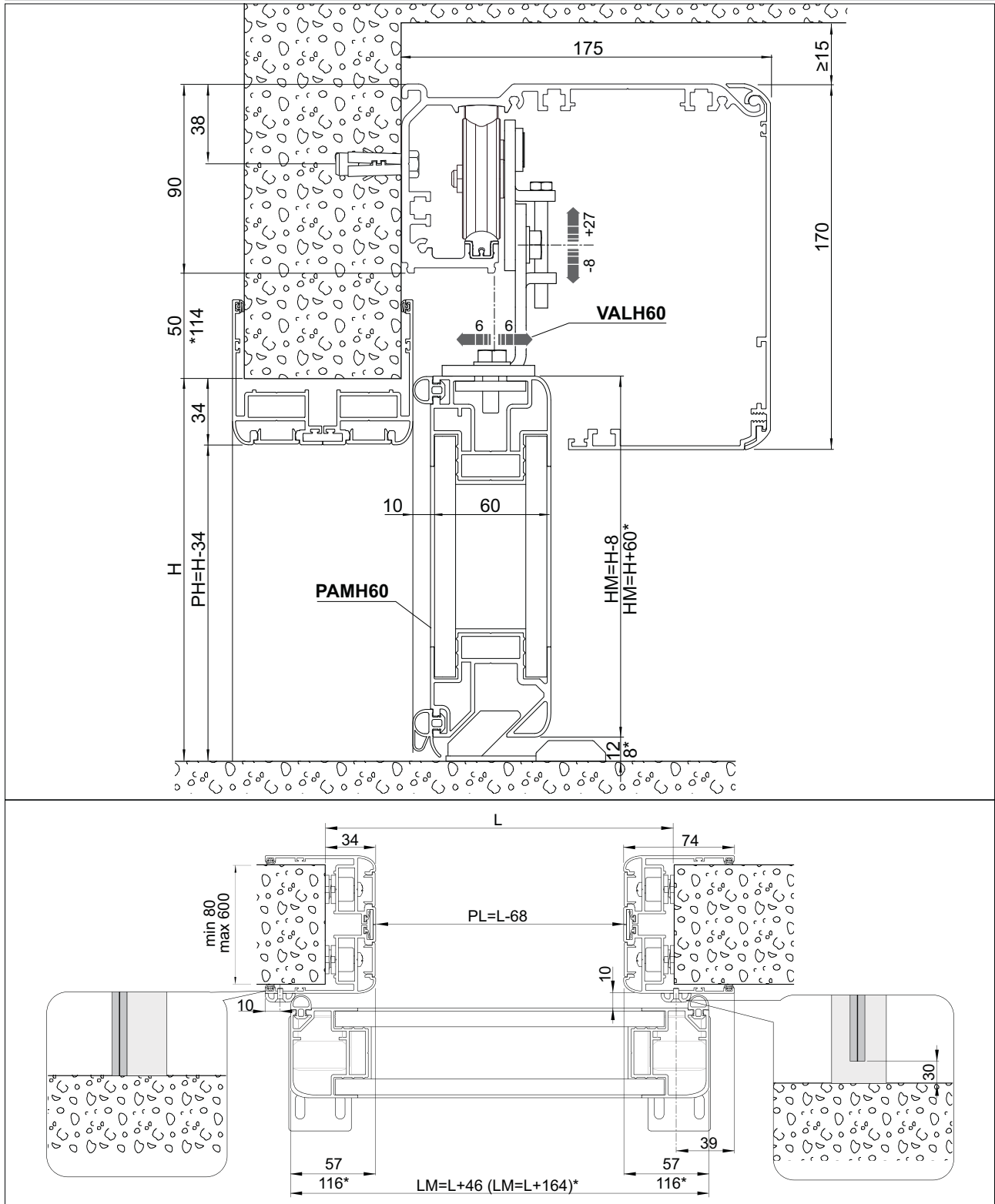
If the door wings are made with DITEC profiles of the following series: PAM16, PAM23, PAM45, refer to the measurements in the related manuals.

Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.

Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.

**WARNING:** The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

### 5.3 VALOR H box fastening

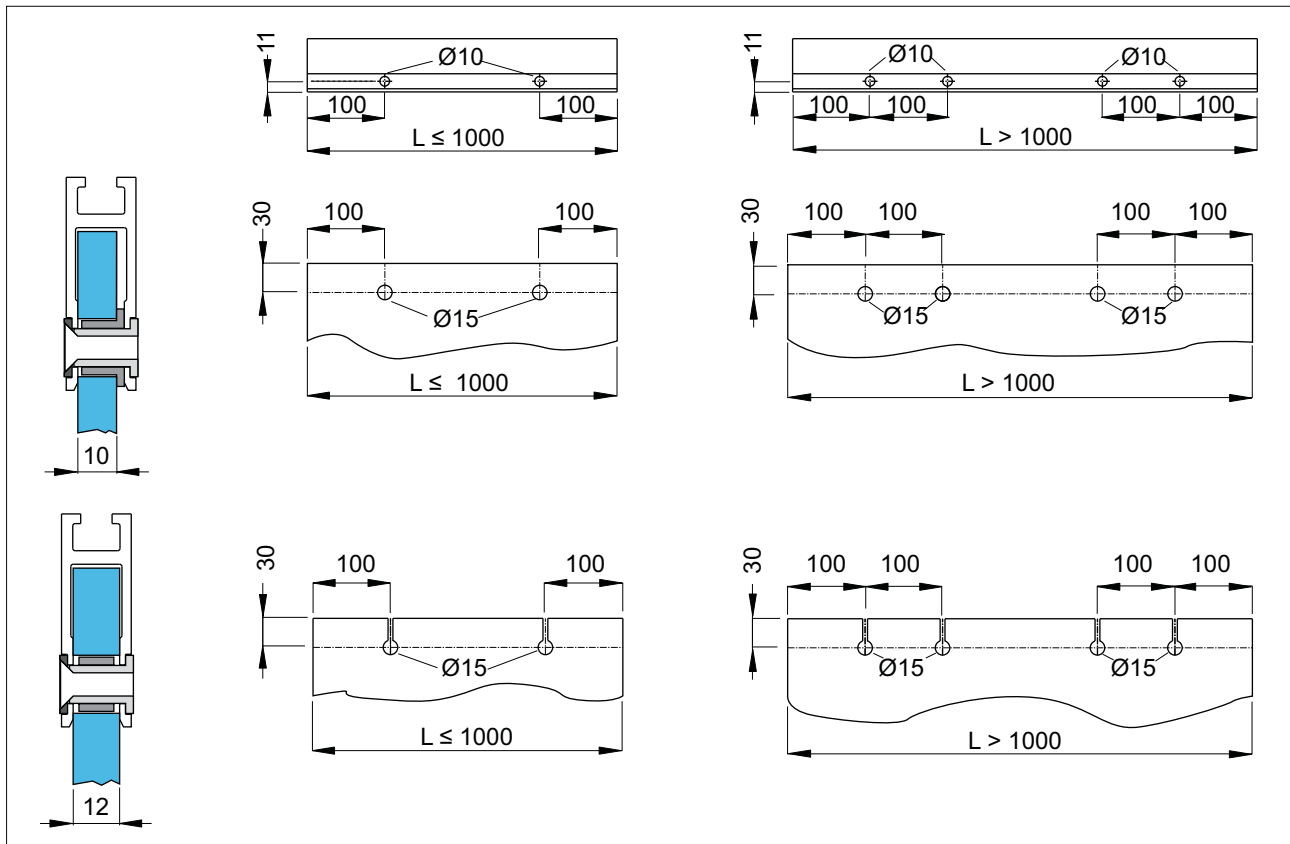


Unless otherwise specified, all measurements are expressed in millimetres (mm).  
The figure shows the measurements for wall mounting the VALOR H automation considering that the door wings are made of DITEC PAMH60 series profiles.  
If the PAMH60 door wing has lead-shielding (e.g. radiology department) refer to the measurements marked [\*].  
Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.  
Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.  
**WARNING:** The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

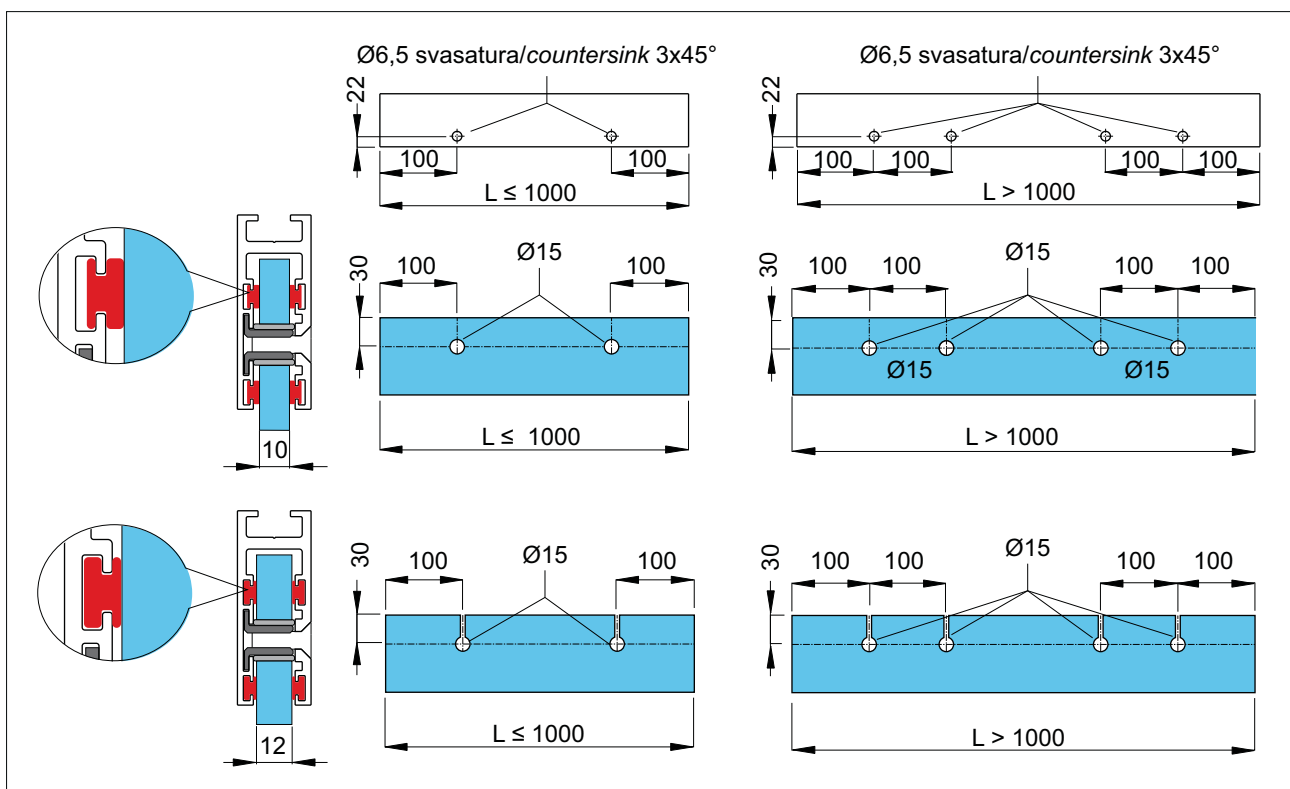


## 5.4 Preparation of the glass door wing

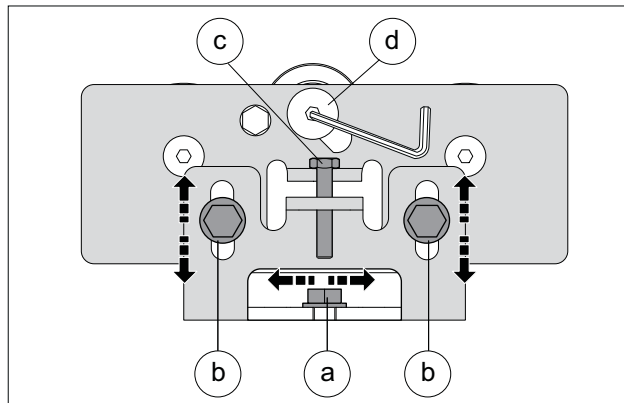
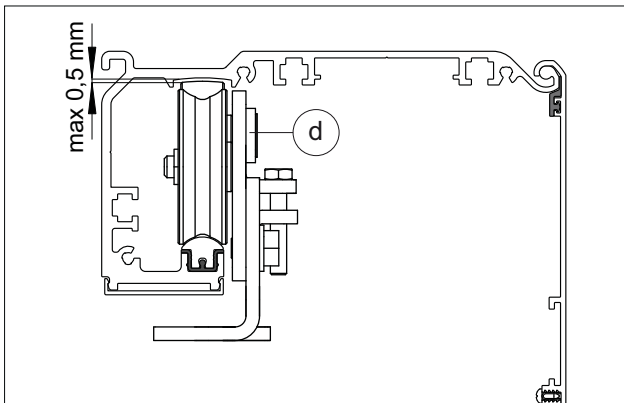
The diagram indicates the process measurements of the aluminium profile AC1356 and glass.  $\text{Ø}10$  through holes are required on the aluminium profile and  $\text{Ø}15$  on the glass for fastening. The number of holes and related distance between centres are based on the door wing width. Silicon should ideally be used between the edge of the glass and the internal base of the profile.



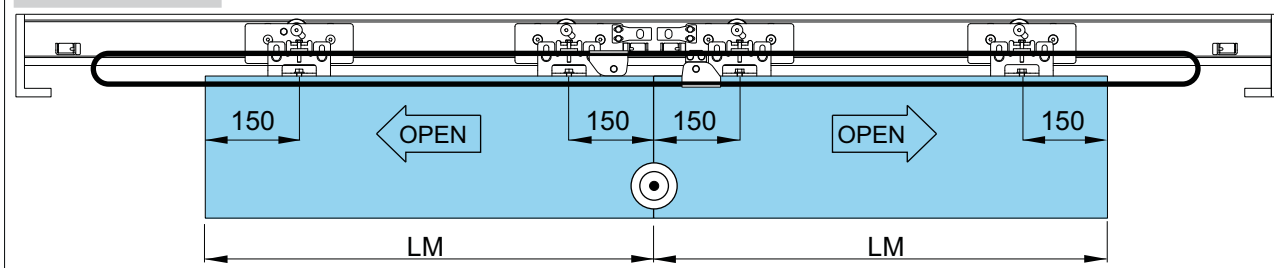
The diagram indicates the process measurements of the aluminium profile AC4255 and glass.  $\text{Ø}6,5$  countersink  $3 \times 45^\circ$  through holes are required on the aluminium profile and  $\text{Ø}15$  on the glass for fastening. The number of holes and related distance between centres are based on the door wing width.



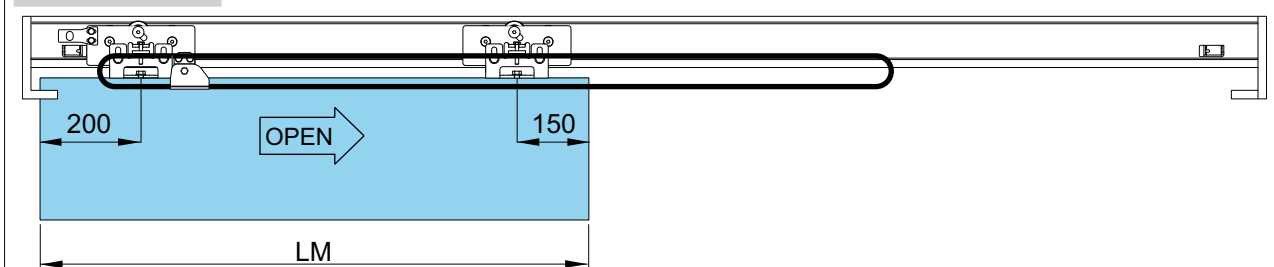
## 5.5 VALOR - VALOR H wings installation and adjustment



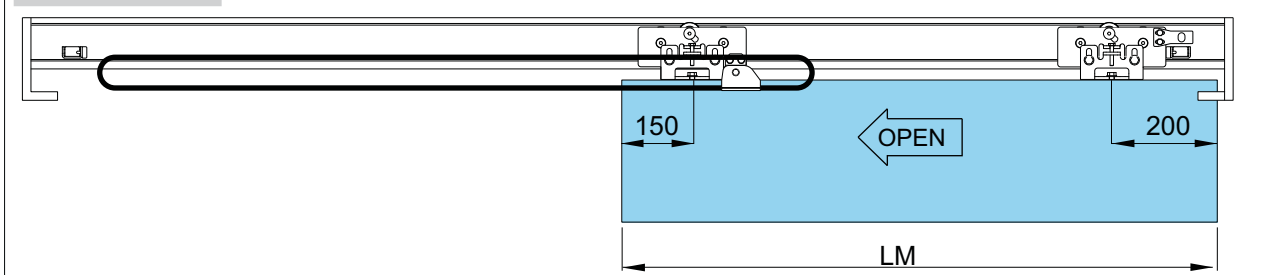
### VALOR 2



### VALOR 1 DX



### VALOR 1 SX



Make sure that the central wheel is adjusted [d] as illustrated in the diagram.

Fix the door wing to the carriage with screws [a].

The outer wheel of the carriage must not protrude beyond the dimension of the door wing.

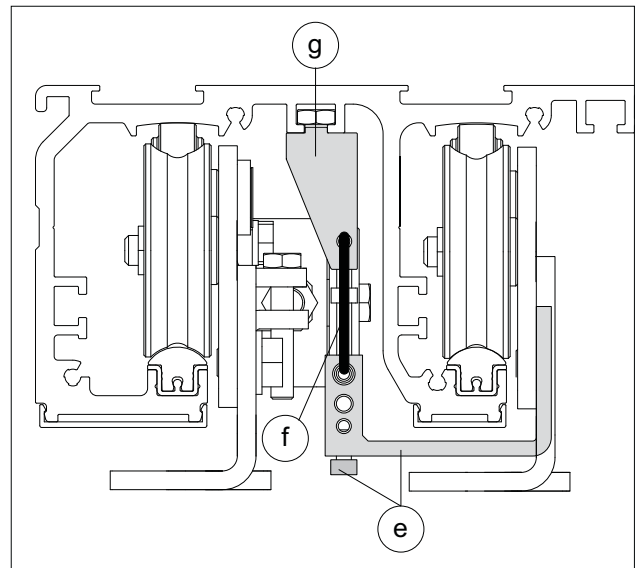
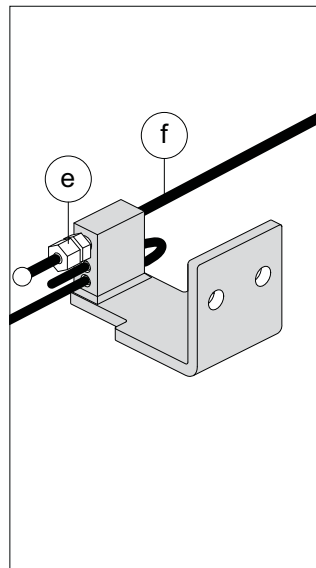
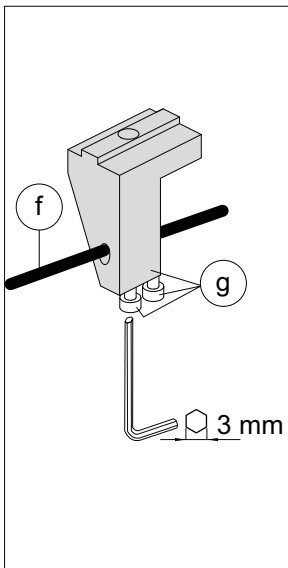
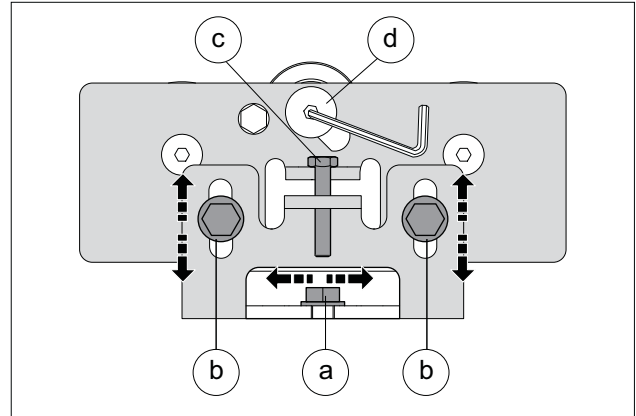
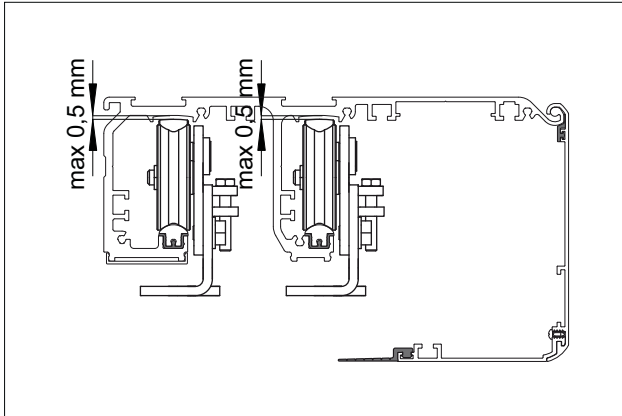
Adjust the horizontal position of the door wing in accordance with the measurements indicated in diagram VALOR 2 for 2 door wing automations, VALOR 1 RH for right-hand opening automations and VALOR 1 LH for left-hand opening automations. Secure the adjustment with screws [a].

Loosen screws [b], adjust the vertical position of the door wing by means of screw [c] and fix the adjustment with screws [b].

Check, by moving the door manually, that the movement is free and without friction and that all the wheels rest on the guide.

**WARNING:** Leave a gap of at least 10 mm between the glass door wings when closed to avoid contact of the glass.

## 5.6 VALOR T wings installation and adjustment



Make sure that the central wheel is adjusted [d] as illustrated in the diagram.

Fix the door wing to the carriage with screws [a].

The outer wheel of the carriage must not protrude beyond the dimension of the door wing.

Adjust the horizontal position of the door wing in accordance with the measurements indicated in diagram VALOR 2 +2 for four door wing automations, VALOR 1 +1 RH for right-hand opening automations and VALOR 1 +1 LH for left-hand opening automations. Secure the adjustment with screws [a].

Loosen screws [b], adjust the vertical position of the door wing by means of screw [c] and fix the adjustment with screws [b].

Check, by moving the door manually, that the movement is free and without friction and that all the wheels rest on the guide.

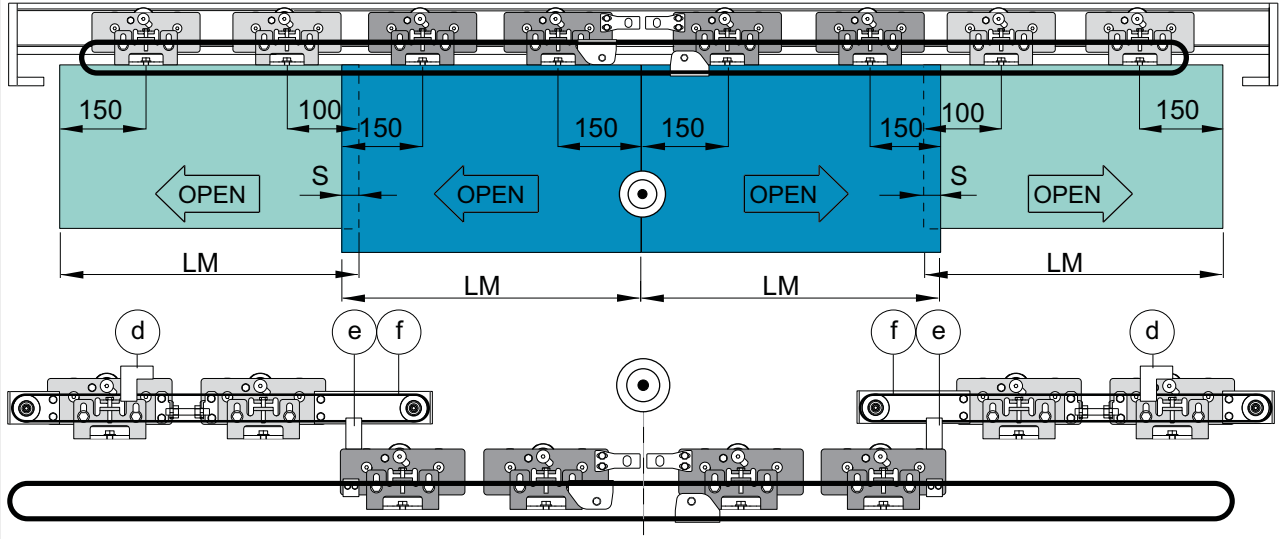
Proceed as follows to adjust the overlap of the door wings:

- Place the door in the closed position.
- Hold the external door wing in the closed position.
- Loosen [g] and move the door wing, increasing or decreasing the overlap.
- Tighten [g].

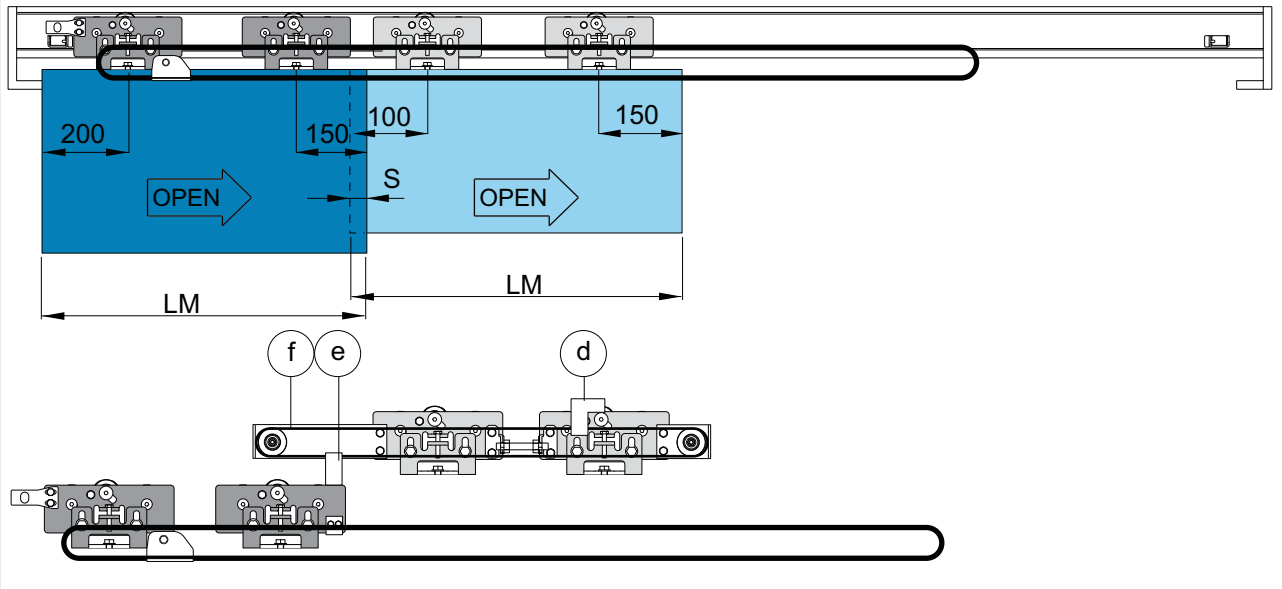
Adjust the tension of the cables by means of adjuster [e], loosening the locking nut.

Correctly tension the cable, then block it with the locking nut.

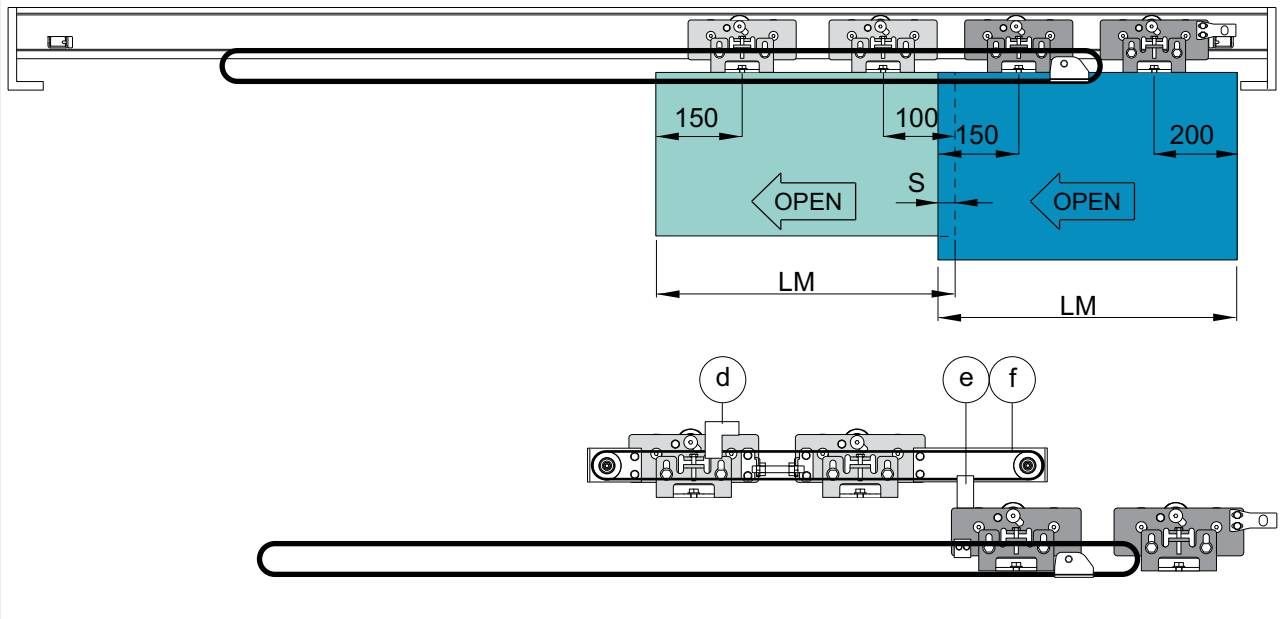
### VALOR 2+2



### VALOR 1+1 DX



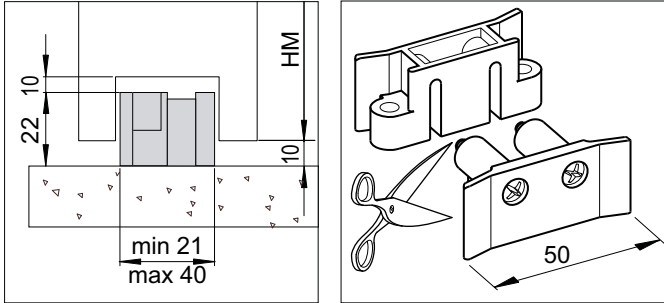
### VALOR 1+1 SX



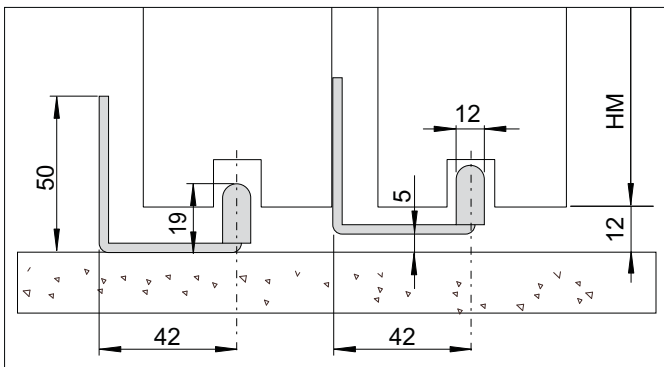
## 5.7 Floor guide installation

The floor guides must be made of an antifriction material such as PVC, NYLON, TEFLON. The length of the floor guide should not be greater than the overlap of between the fixed and mobile door wing and must not enter the doorway.

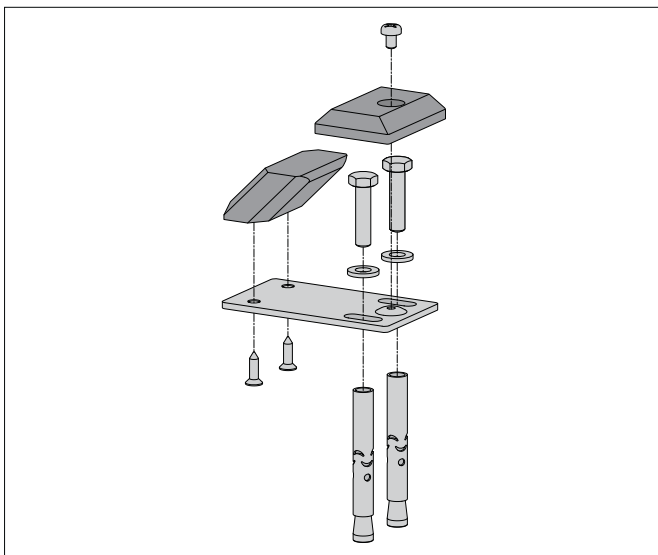
The measurements of the code 0KP515AB floor guide for framed door wings are indicated in the diagram.



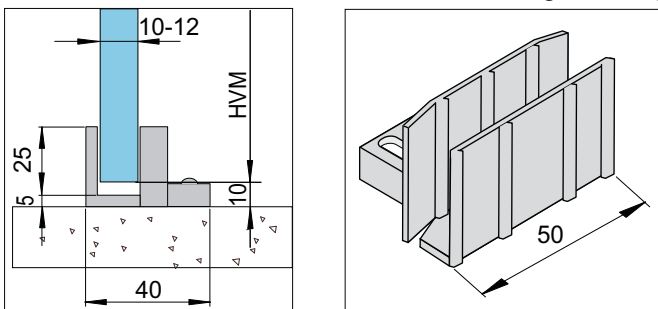
The measurements of the code KPAM45 floor guide for telescopic door wings are indicated in the diagram.



The floor guide for the PAMH60 door wing has the measurements indicated in paragraph 5.3.



The measurements of the code 0KP369 floor guide for glass door wings are indicated in the diagram.

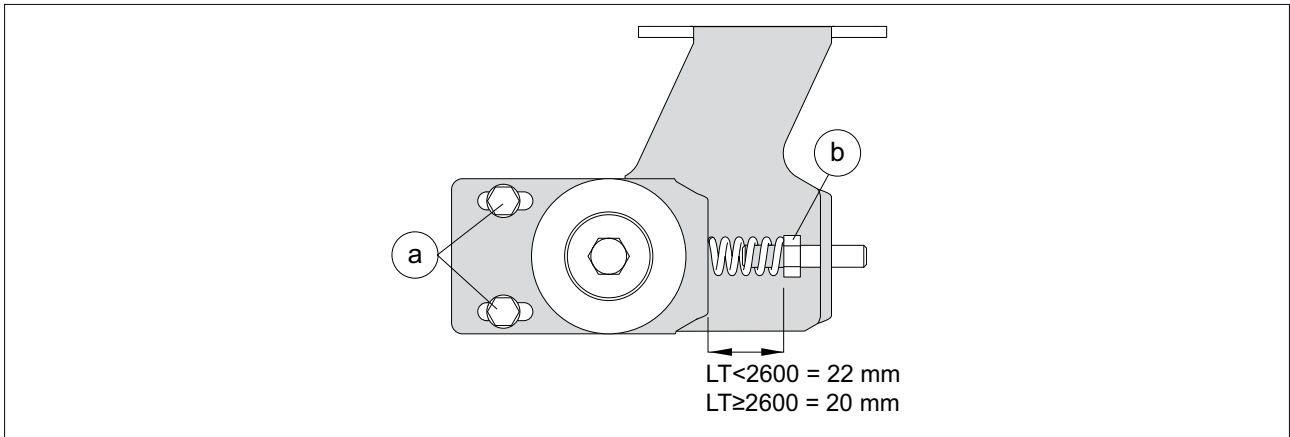


## 5.8 Belt adjustment

Loosen screws [a], unscrew screw [b] until the spring is at a compression of 20 mm (if the length of the automation is lower than 2600 mm) or 22 mm (if the length of the automation is greater than 2600 mm).

Block the adjustment by tightening screws [a].

**WARNING:** incorrect adjustment impairs the correct functioning of the automation.



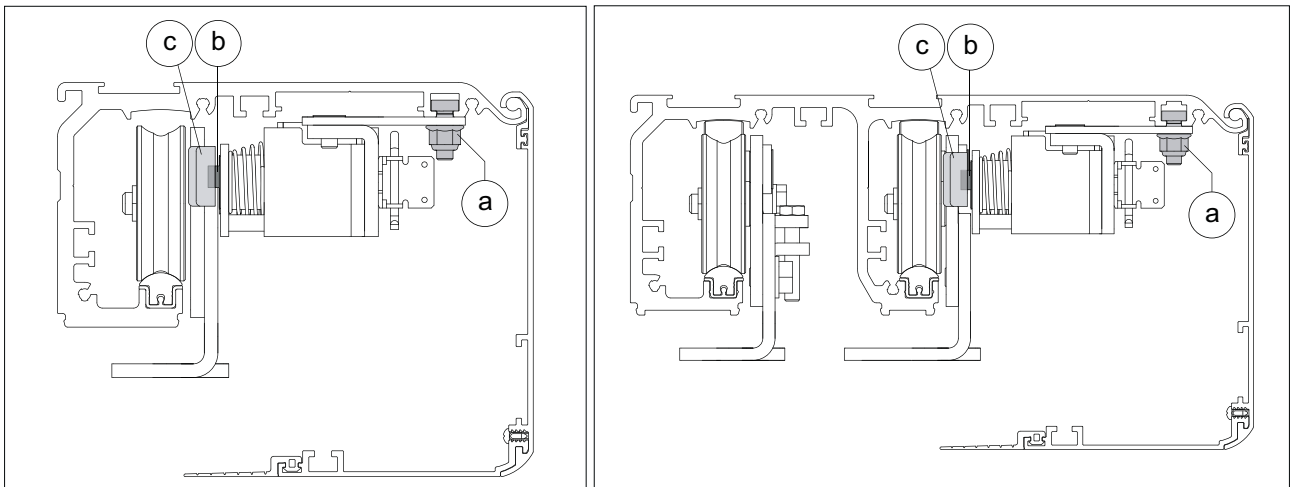
## 5.9 Lock device installation

Place the door wing in the closure position.

Fasten the lock device to the box profile by means of the supplied screws [a].

Align the lock pin [b] and the lock bracket [c] and manually check the correct functioning.

Slightly lubricate the lock pin and lock bracket.



## 6. ELECTRICAL CONNECTION

Electrical wiring and starting are shown in the installation manual of control panel EL20.



Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations.

The safety devices must protect any areas where the risk exists of being crushed, cut or gragged, or where there are any other risks generated by the motorised door or gate.



Before making power connections, make sure the plate details correspond to those of the power mains. Fit an omnipolar disconnection switch with a contact opening gap of at least 3 mm. Make sure an adequate residual current circuit breaker and overcurrent cutout are fitted upstream of the electrical system.

When necessary, connect the motorised door or gate to a reliable earth system made in accordance with applicable safety regulations.

During installation, maintenance and repair, interrupt the power supply before opening the lid to access the electrical parts.



To handle electronic parts, wear earthed antistatic conductive bracelets.

The motor manufacturer declines all responsibility in the event of component parts being fitted that are not compatible with the safe and correct operation.

## 7. ORDINARY MAINTENANCE SCHEDULE

Perform the following operations and checks every 6 months according to intensity of use of the automation.

### **Without 230 V~ power supply and batteries:**

- Clean and lubricate the moving parts (the carriage guides and the floor guides).
- Check the belt tension.
- Clean sensors and photocells.
- Check the stability of the automatic system and make sure that all screws are correctly tightened.
- Check the alignment of the doors, the closing positions and the correct introduction of the blocking device.

### **Connect the 230 V~ power supply and batteries:**

- Check that the blocking system is working correctly.
- Check the stability of the door and that the movement is regular and without friction.
- Check that all command functions are operating correctly.
- Check the correct functioning of the photocells.
- Check that the door's developed powers are in accordance with applicable regulations.



**WARNING:** For spare parts, see the spares price list.

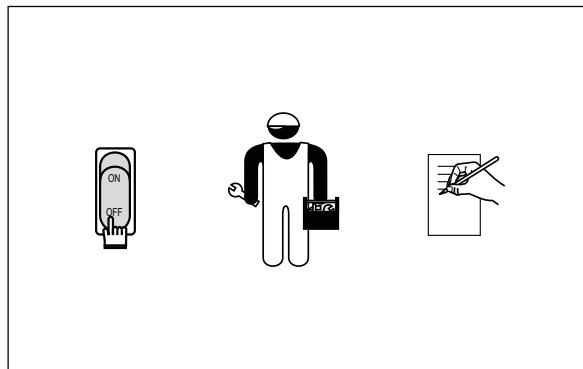
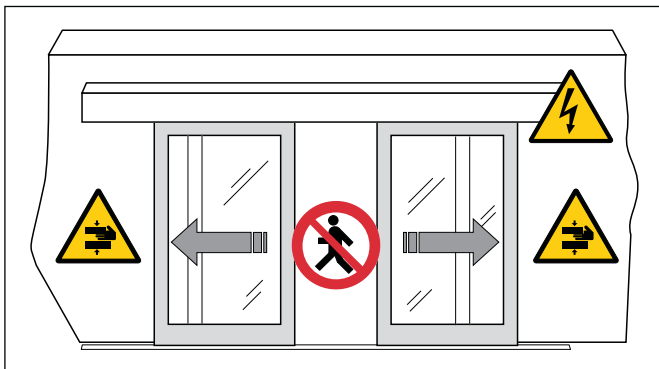


For repairs or replacements of products only original spare parts must be used.

The installer shall provide all information relating to automatic, manual and emergency operation of the motorised door or gate, and provide the user with operating instructions.



## 8. USER INSTRUCTIONS



### 8.1 General safety precautions



The following precautions are an integral and essential part of the product and must be supplied to the user.

Read them carefully as they contain important indications for the safe installation, use and maintenance.

These instructions must be kept and forwarded to all possible future users of the system.

This product must be used only for that which it has been expressly designed.

Any other use is to be considered improper and therefore dangerous.

The manufacturer cannot be held responsible for possible damage caused by improper, erroneous or unreasonable use.

Avoid operating in the proximity of the hinges or moving mechanical parts.

Do not enter the field of action of the motorised door while in motion.

Do not obstruct the motion of the motorised door as this may cause a situation of danger.

Do not lean against or hang on to the door when it is moving.

Do not allow children to play or stay within the field of action of the motorised door.

Keep remote control or any other control devices out of the reach of children, in order to avoid possible involuntary activation of the motorised door. In case of breakdown or malfunctioning of the product, disconnect from mains, do not attempt to repair or intervene directly and contact only qualified personnel.

Failure to comply with the above may create a situation of danger.

All cleaning, maintenance or repair work must be carried out by qualified personnel.

In order to guarantee that the system works efficiently and correctly it is indispensable to comply with the manufacturer's indications thus having the periodic maintenance of the motorised door carried out by qualified personnel.

In particular regular checks are recommended in order to verify that the safety devices are operating correctly.

All installation, maintenance and repair work must be documented and made available to the user.



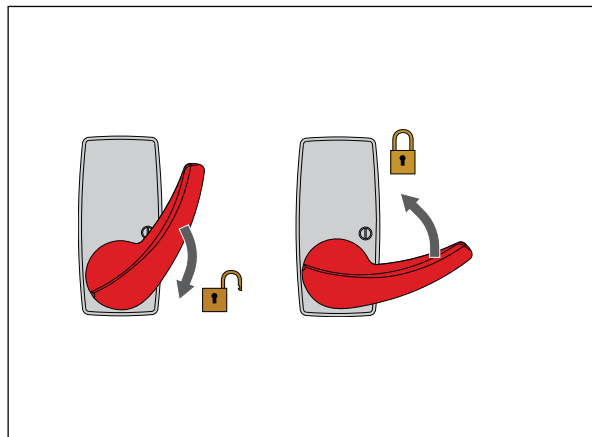
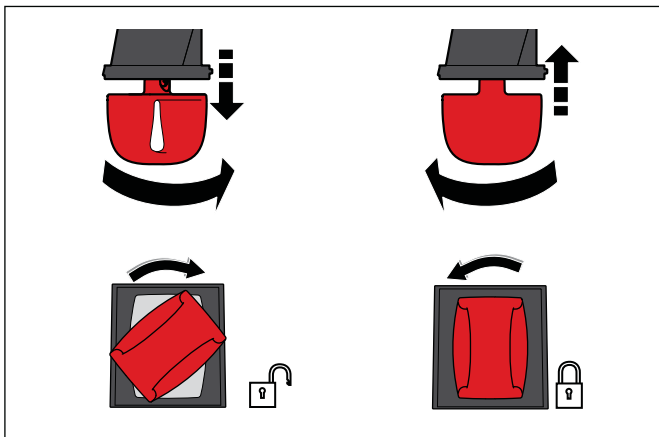
For the correct disposal of electric and electronic equipment, waste batteries and accumulators, the user must take such products to the designated municipal collection facilities.





TEAR OFF AND DELIVER TO USER

## 8.2 Manual release instructions



In the event of maintenance, malfunctioning or emergency, pull the lock release lever VALSB down and turn it to the right or lower the lock release lever LOKSBM (if installed) and move the door wings manually into the open position.

To block the door wings again, reposition the lock release lever to the initial position.



**WARNING:** Carry out the door wing blocking and release with the motor switched off.



**DITEC S.p.A.**  
Via Mons. Banfi, 3  
21042 Caronno Pertusella (VA) - ITALY  
Tel. +39 02 963911 - Fax +39 02 9650314  
[www.ditec.it](http://www.ditec.it) - [ditec@ditecva.com](mailto:ditec@ditecva.com)

Installer:



TEAR OFF AND DELIVER TO USER

## 9. USER INSTRUCTIONS FUNCTION SELECTOR

The STOP position prevents the batteries from engaging in case of emergency.

**NOTE:** for correct door operation and regular battery recharging, it is essential that the automatic system be always powered with batteries connected (also during the night).

FUNCTION SELECTOR	COME	COMH-K
<b>DOOR OPEN</b> The door opens and remains open.		
<b>TOTAL ONE-WAY OPENING</b> For one-way operation from the inside/outside of the door.		
<b>TOTAL TWO-WAY OPENING</b> For two-way door operation		
<b>PARTIAL OPENING</b> For two-way, one-way and partial opening operation.		
<b>PARTIAL OPENING</b> For two-way partial opening.		
<b>DOOR CLOSED</b> The door closes and remains closed and locked (if lock is present).		
<b>IMMEDIATE NIGHT-TIME CLOSURE (STOP)</b> The door stops immediately when the NIGHT-TIME CLOSURE key is pressed for 3 s.		
<b>DELAYED NIGHT-TIME CLOSURE</b> Pressing the NIGHT-TIME CLOSURE key, the door closes after 10 seconds (with J1=ON) or 60 seconds (with J1=OFF). This allows authorised door management personnel to get out before it closes.		
<b>IMMEDIATE NIGHT-TIME CLOSURE</b> The door stops immediately when the NIGHT-TIME CLOSURE is selected.		
<b>POWER RESET</b> Cancels the data acquired, proceeding with a new acquisition after 3 seconds.		
<b>DMCS Jack</b> This is used to connect the DMCS software. N.B.: The DMCS jack can be accessed by removing the function selector switch cover.		
<b>SETTING THE CODE (with J3=ON)</b> The code can contain up to 5 numbers. Press the LOCK key for 3 seconds. Enter the numerical code. <i>NOTE: the red LED flashes during this procedure.</i> Press the LOCK key for 3 seconds. If the LED remains steady on, the selector is protected by an access code.	  	
<b>CANCELLING THE CODE (with J3=ON.)</b> Press the LOCK key for 3 seconds. Enter the numerical code. <i>NOTE: the red LED flashes during this procedure.</i> Press the LOCK key for 3 seconds. If the LED is switched off, the selector is working and no access code is set.	  	





**DITEC S.p.A.** Via Mons. Banfi, 3 21042 Caronno P.Ila (VA) Italy Tel. +39 02 963911 Fax +39 02 9650314  
www.ditec.it ditec@ditecva.com

**DITEC BELGIUM** LOKEREN Tel. +32 9 3560051 Fax +32 9 3560052 www.ditecbelgium.be **DITEC DEUTSCHLAND** OBERURSEL  
Tel. +49 6171 914150 Fax +49 6171 9141555 www.ditec-germany.de **DITEC ESPAÑA** ARENYS DE MAR Tel. +34 937958399  
Fax +34 937959026 www.ditecespana.com **DITEC FRANCE** MASSY Tel. +33 1 64532860 Fax +33 1 64532861 www.ditecfrance.com  
**DITEC GOLD PORTA** ERMESINDE-PORTUGAL Tel. +351 22 9773520 Fax +351 22 9773528/38 www.goldporta.com **DITEC SVIZZERA**  
BALERNA Tel. +41 848 558855 Fax +41 91 6466127 www.ditecswiss.ch **DITEC ENTREMATIC NORDIC** LANDSKRONA-SWEDEN  
Tel. +46 418 514 50 Fax +46 418 511 63 www.ditecentrematicnordic.com **DITEC TURCHIA** ISTANBUL Tel. +90 21 28757850  
Fax +90 21 28757798 www.ditec.com.tr **DITEC AMERICA** ORLANDO-FLORIDA-USA Tel. +1 407 8880699 Fax +1 407 8882237  
www.ditecamerica.com **DITEC CHINA** SHANGHAI Tel. +86 21 62363861/2 Fax +86 21 62363863 www.ditec.cn