



**AUTOMATIC ENTRANCE SPECIALISTS**



**Rex**

IP1838 - rev. 2008-02-18



- ① Manuale di installazione e manutenzione per porte scorrevoli
- ② Installation and maintenance manual for sliding door
- ③ Manuel d'installation et d'entretien pour portes coulissantes
- ④ Montage und Wartungshandbuch für Schiebetüren
- ⑤ Manual de instalaciòn y manutenciòn para puertas correderas
- ⑥ Instalação e Manutenção para portas deslizantes



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ISO 9001  
Cert. n° 0957

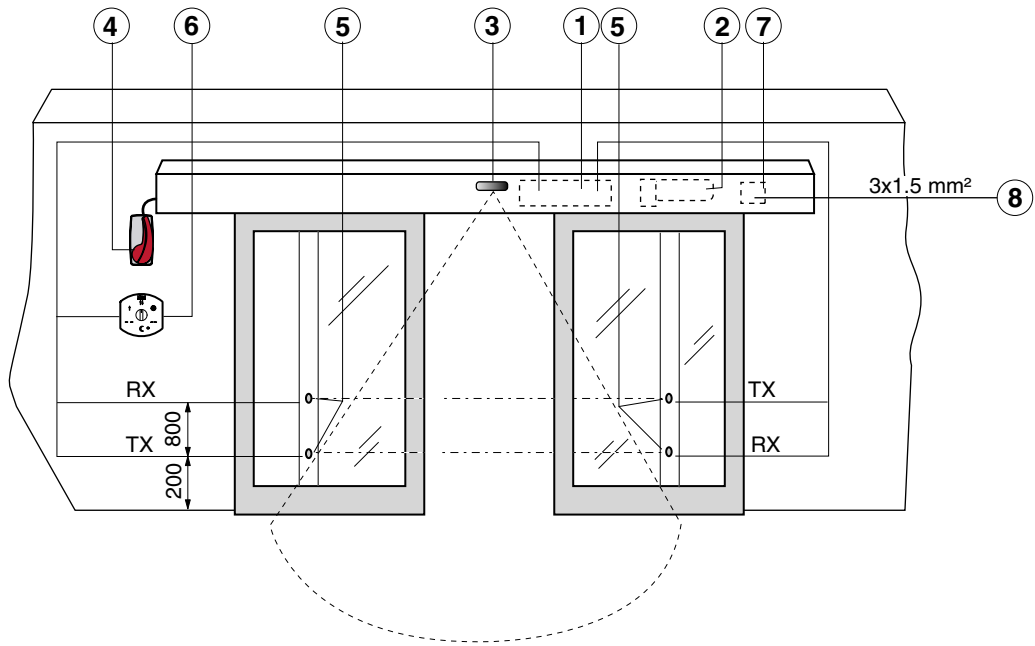


Fig. 1

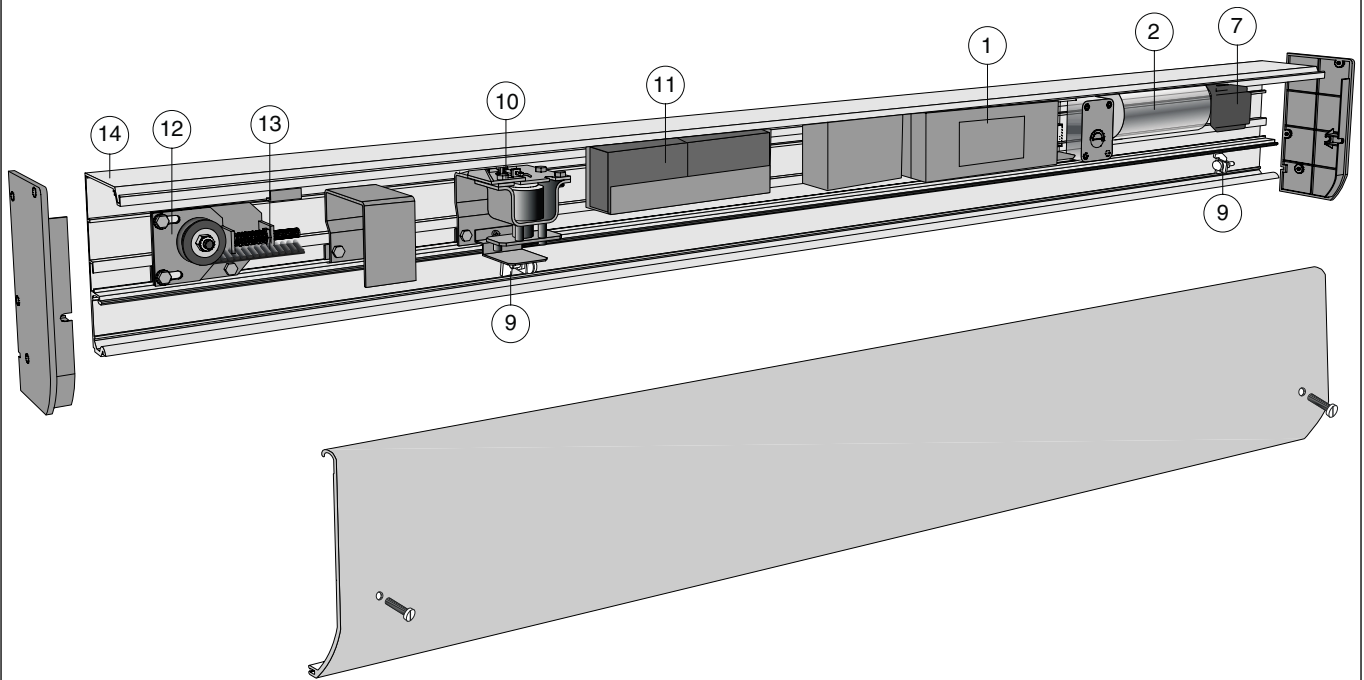
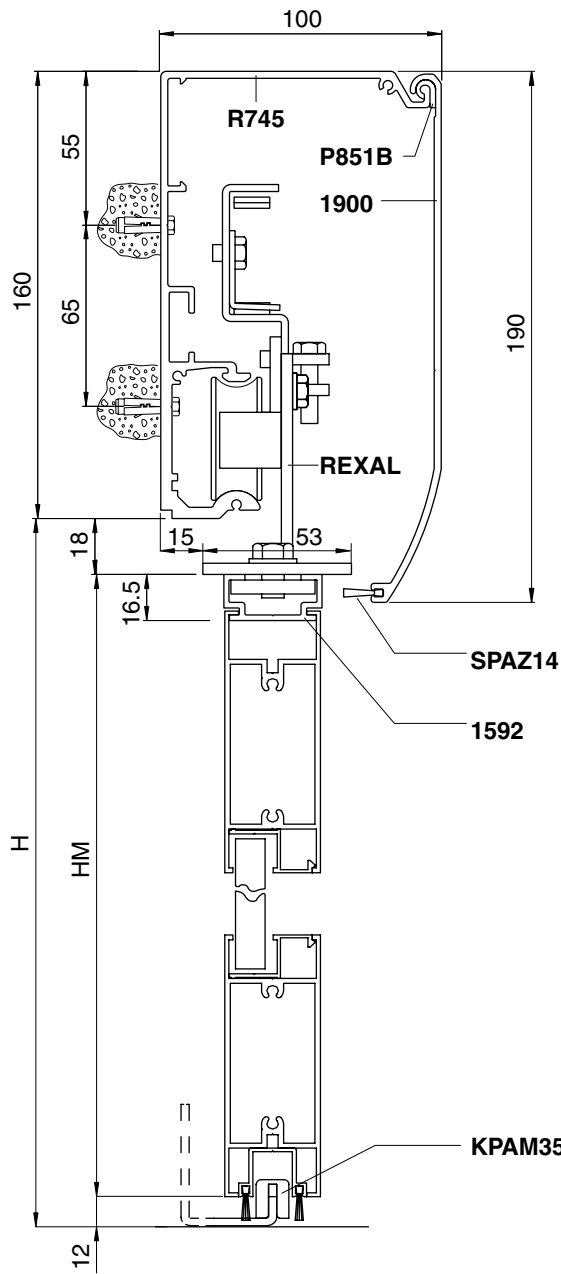


Fig. 2

**PAM35**



$HM = H - 30$   
 $HVM = H - 9$   
 $X = 10 \text{ mm} \div 12 \text{ mm}$

**PAM16-AC**

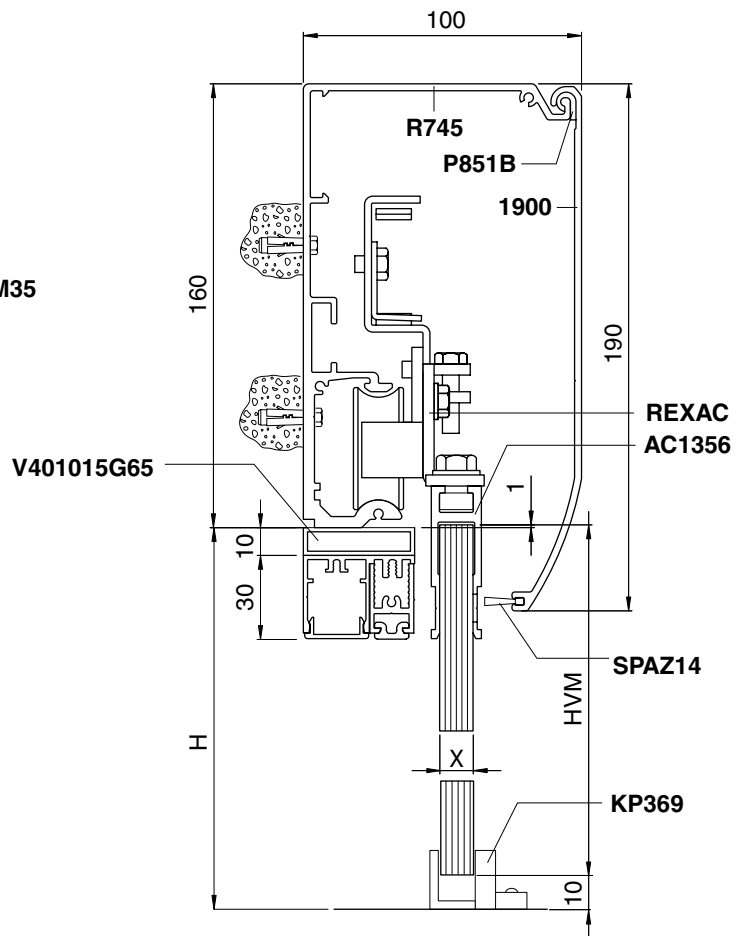
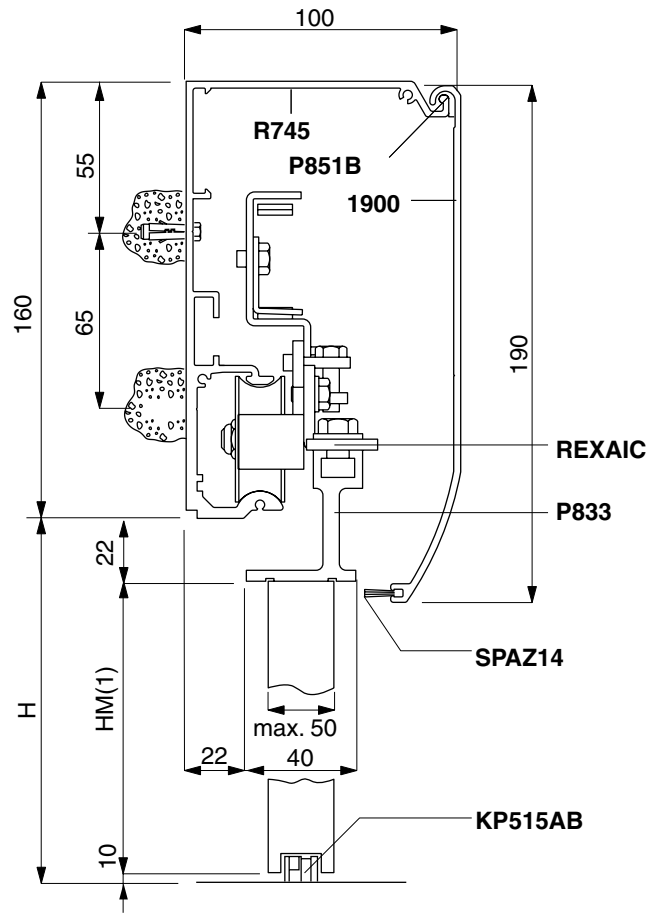
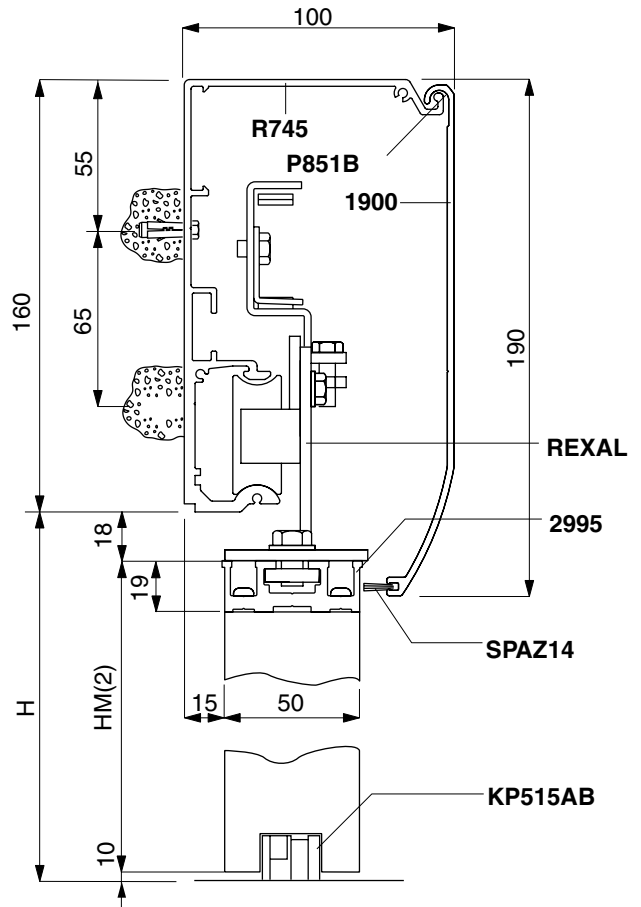


Fig. 3

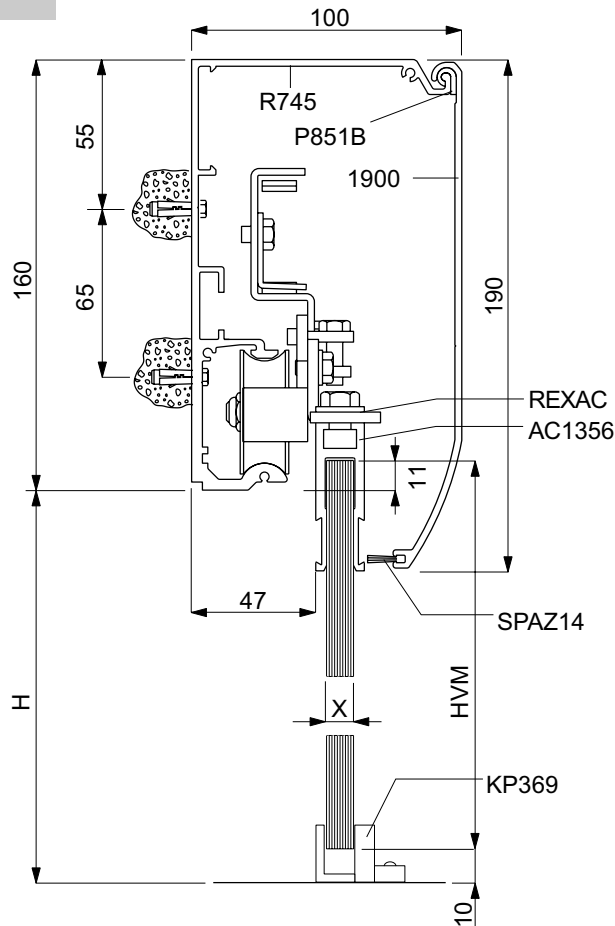
**REXAIC+P833**



**REXAL+2995**



**REXAC+AC1356**



HM(1) = H - 32  
 HM(2) = H - 28  
 HVM = H + 1  
 X = 10 mm ± 12 mm

Fig. 4

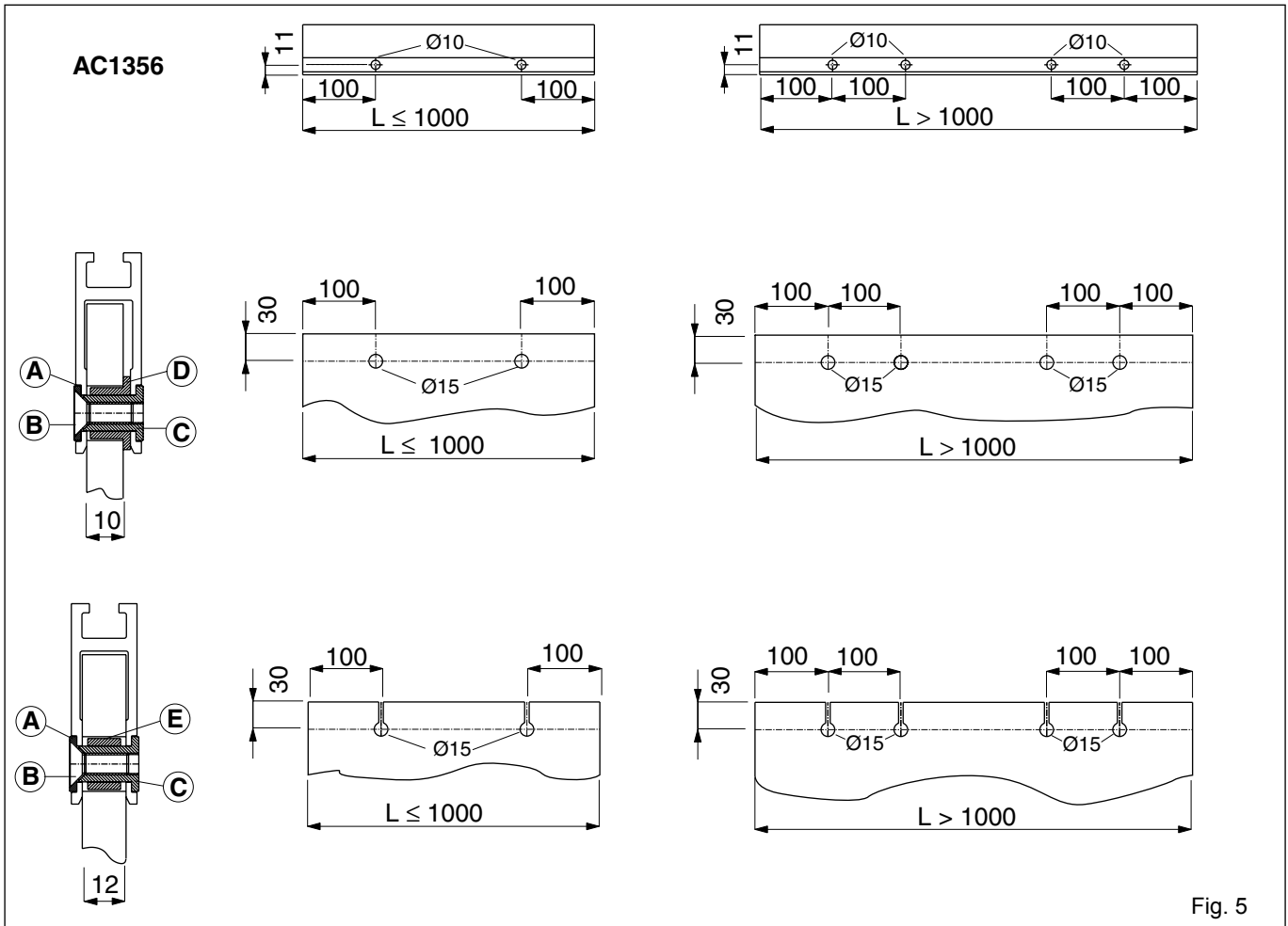


Fig. 5

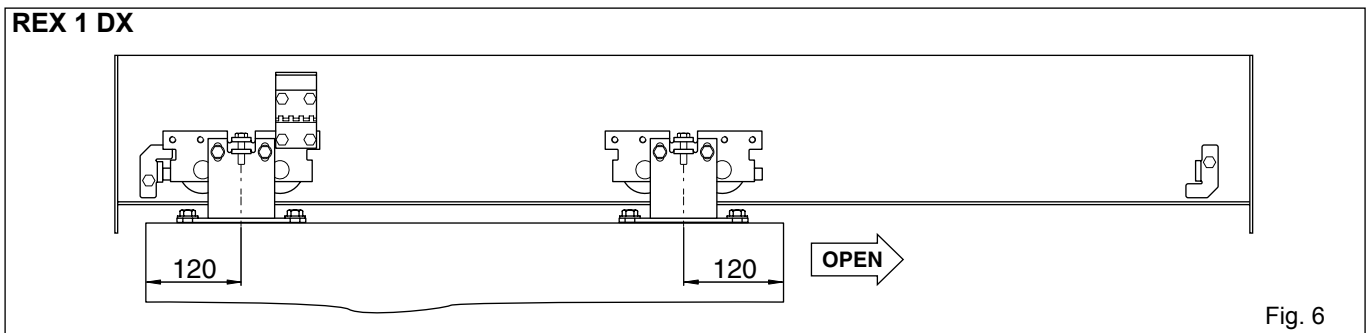


Fig. 6

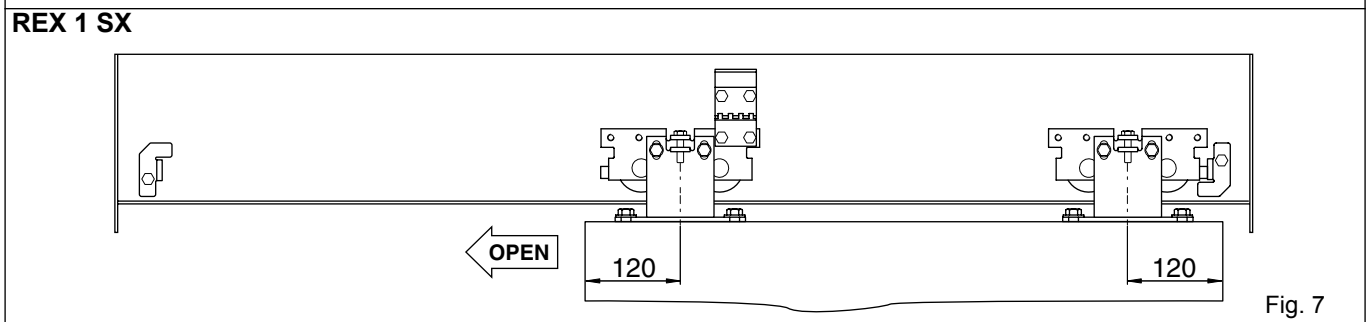


Fig. 7

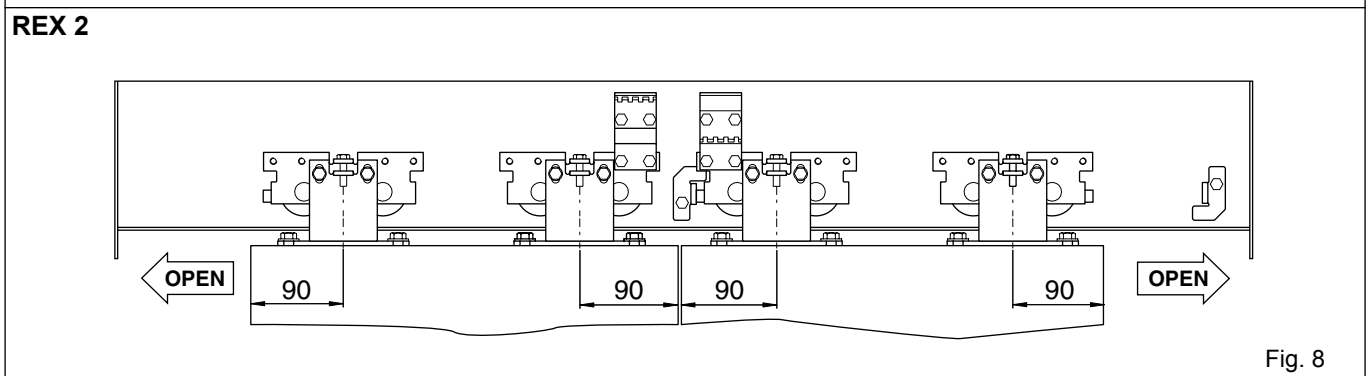



Fig. 8

## GENERAL SAFETY PRECAUTIONS

 This installation manual is intended for professionally competent personnel only.

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

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 or gate.


The safety devices must protect any areas where the risk exists of being crushed, cut or dragged, or where there are any other risks generated by the motorised door or gate. Apply hazard area notices required by applicable regulations.

Each installation must clearly show the identification details of 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.

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.

## MACHINERY DIRECTIVE

Pursuant to Machinery Directive (98/37/EC) 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 techni-

cal 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.
- For more information consult the "Technical Manual Guidelines" available on Internet at the following address: [www.ditec.it](http://www.ditec.it)

## APPLICATIONS

**Maximum permissible weight and recommended weight: see TECHNICAL DATA**

**Service life: 5** (minimum 5 years of working life with 600 cycles a day)

**Applications: HEAVY DUTY** (For vehicle or pedestrian accesses to institutional complexes with very intense use).

- 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. During given time spans product performance characteristics will be such as not to require any special maintenance.
- 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.

## DECLARATION BY THE MANUFACTURER

(Directive 98/37/EC, Annex II, sub B)

Manufacturer: DITEC S.p.A.

Address: via Mons. Banfi, 3-21042 Caronno P.I.a (VA) - ITALY

Herewith declares that the electromechanical automatic system for sliding doors series REX

- is intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery covered by Directive 98/37/EC;
- is in conformity with the provisions of the following other EEC directives:

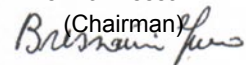
Electromagnetic Compatibility Directive 89/336/EEC;

Low Voltage Directive 73/23/EEC;

and furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 98/37/EC and with national implementing legislation.

Caronno Pertusella, 04-07-1997

Fermo Bressanini

(Chairman)  


1. TECHNICAL DATA	REX1	REX2
Power supply	230V~50-60 Hz	230V~50-60 Hz
Absorption	0,5 A	0,5 A
Accessories power supply	24 V= / 0,3 A (192C) 0,5 A (EL16)	24 V= / 0,3 A (192C) 0,5 A (EL16)
Opening speed (max.)	0,5 m/s (192C) 0,1÷0,6 m/s (EL16)	1 m/s (192C) 0,2÷1,2 m/s (EL16)
Closing speed (max.)	0,35 m/s (192C) 0,1÷0,6 m/s (EL16)	0,7 m/s (192C) 0,2÷1,2 m/s (EL16)
Acquisition speed (max.)	0,1 m/s	0,2 m/s
Intermittence	S3 = 100%	S3 = 100%
Max run	3500 mm	3500 mm
Max. door weight	100 kg	140 kg
Temperature	-10° C/ +50°	-10° C/ +50° C
Degree of protection	IP20	IP20

## 2. REFERENCE TO ILLUSTRATIONS

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

### 2.1 STANDARD INSTALLATION REFERENCES (fig. 1)

- [1] Electrical Board
- [2] Geared motor
- [3] Radar
- [4] Release
- [5] Photocells
- [6] Selector
- [7] Capacitor
- [8] Connect power supply to a type-approved omnipolar switch with a contact opening gap of no less than 3 mm (not supplied by us) protected against accidental and unauthorized activation.



Connection to supply mains must be carried out in an independent raceway separate from control connections and safety device connections.

### 2.2 AUTOMATION REFERENCES (fig. 2)

- [9] Opening/Closing stops
- [10] Lock
- [11] Batteries kit
- [12] Transmission unit
- [13] Belt
- [14] Guide

## 3. INSTALLATION

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

### 3.1 FIXING GUIDE

Fig. 3-4 shows the fastening of the guide [14] in accordance with the height of the wing:

HM = height of framed mobile wing;

HVM = height of glass on mobile wing;

- Fasten guide by means of steel blocks M6 Ø12 or screws 6MA. The point of fixing shall be set on the guide around every 800 mm.
- Verify if guide [14] rear side is perpendicular to the floor and not lengthwise deformed by the shape of wall. Should the wall not be straight and smooth, iron plates shall be arranged on it prior to guide fastening.



**WARNING:** the housign must be attached securely to the wall to support the weight of the wings.

## 3.2 FRAMED DOOR WING PREPARATION

The door must be robustly constructed and its glasses must be glued at least at the corners. The upper transom must be reinforced on the inside with an iron profile on which the suspension profile must be screwed on several points. For tall, narrow wings, the steel reinforcement must extend over part of the vertical uprights. It is advisable to install rubber borders at the ends of the wing to reduce force of impact.

## 3.3 CRYSTAL DOOR PREPARATION

(Fig. 5) The AC1356 crystal fitting section may be used with crystal-only wings of 10 or 12 mm thickness.

*It is not usable on any kind of normal or stratified glass.*

The blocking operation is to be carried out through holes Ø 10, present on aluminium profile, and holes Ø 15, present on the glass. Number of holes and relative distance between centres depend on door wing width. We recommend to apply a light layer of silicone between the glass corner and the end of the profile.

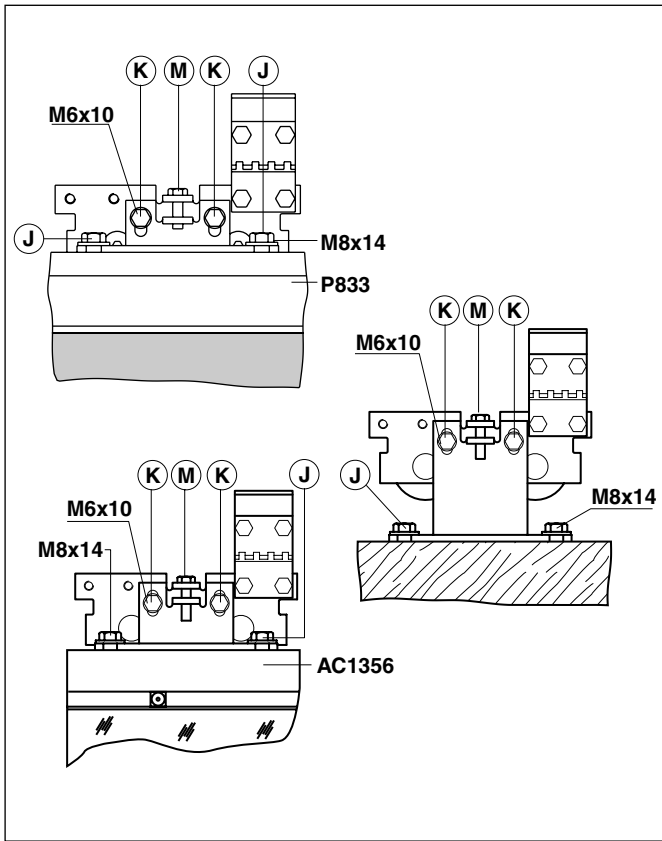
### Crystal door wing references

- [A] Square washer
- [B] Screw M6 TPS
- [C] Threaded panel
- [D] Nylon bush for 10 mm crystal
- [E] Nylon bush for 12 mm crystal

## 3.4 DOOR WING INSTALLATION AND ADJUSTMENT

- Mount the door wing to the wheel unit by means of screws [J]. The outside wheel of the wheel unit shall not be projected from the door wing.
- Adjust the horizontal position of the wing respecting the measurements shown in figs 6, 7 and 8 and set the adjustment with screws [J].
- Loosen screws [K], adjust the vertical position of the wing with screw [M] and set the adjustment with screws [K].

**NOTE:** Check, by moving the wing by hand, that it moves freely and without friction and that all the wheels bear on the guide. If necessary loosen the screws [J] and [K], adjust the carriages onto the guide and tighten the screws.



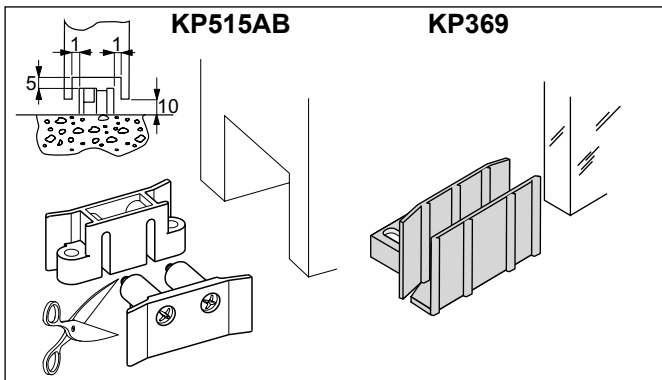
*Warning: in closing position for all-glass wings, without gaskets, leave at least 10 mm to avoid contact between glass wings.*

**3.5 GUIDES AT FLOOR INSTALLATION**

For guides at floor use only antifriction materials such as PVC, NYLON, TEFLON. It is preferable that the length of the guide not be greater than the overlap between the mobile and fixed wing, and that it not enter the passage space. The guide slide on the floor must be smooth for the entire length of the wing.

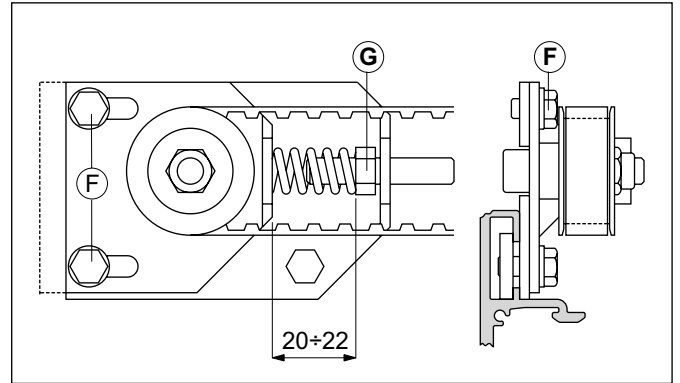
(KP515AB) Guide for framed door supplied by us: reduce as much as necessary.

(KP369) Guide for crystal door supplied by us.



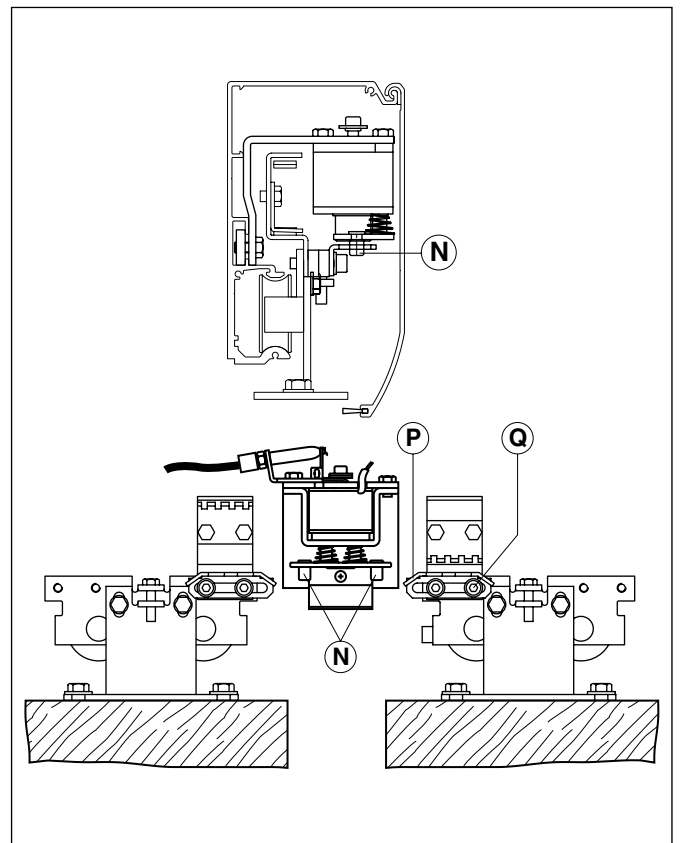
**3.6 BELT TIGHTNESS**

- Loosen screws [F] and tighten screw [G] until maximum extension of the spring.
- Loosen the screws that attach the return unit to the guide.
- Manually pull the entire return unit to the left and attach it to the guide.
- Loosen screw [G] until the spring has reached a compression of 20 mm for transom length (LT) <2600 or 22 mm for cover length (LT) ≥2600.
- Lock the setting with screws [F].



**3.7 INSTALLATION OF LOCKING DEVICE**

- Put the wings in closed position.
- Attach the locking device to the box.
- Centre the point of contact between [N] and the block stopper bracket [P], by means of slot [Q] and manually check the correct functioning of the locking device.
- Lightly lubricate pin [N] and the slanted part of bracket [P].





## **GB** 4. ELECTRICAL CONNECTION

Electrical wiring and starting are shown in the installation manual of Control Panel EL16 or 192C.

## 5. MAINTENANCE PROGRAM (each 6 month)

Power off 230 V~ and batteries:

- Clean and lubricate the moving components (especially the inside edges of the guide along which the carriages run).
- Check the tension of the belt.
- Clean sensors and photocells.
- Check for the stability of the automatism and check that all the screws are tightened all the way.
- Check that the wings are correctly aligned, that stops are properly positioned and that the lock has been correctly fitted.

Power on 230 V~ and batteries:

- Check that the lock/release system is working properly.
- Check for the stability of the door and that the movement is steady, without friction.
- Check the operation of all command functions.
- Check the functioning of the photocells.
- Check that the forces generated by the door comply with legal requirements.
- Check the batteries functioning.

*ATTENTION: For spare parts, see the spares price list*

### **All right 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.

**RELEASE INSTRUCTION**

In case of maintenance, malfunction, or emergency, lower release lever and manually move the wings to open position.

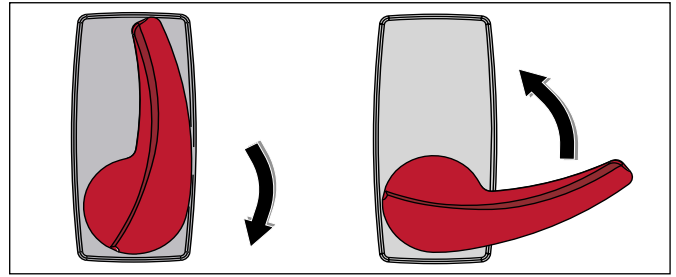
**LOCK INSTRUCTION**

To relock, return release lever to its previous position.

*Attention: Perform the lock and release operations with the motor stopped.*

*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).*



**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 instruction must be kept and forwarded to all possible future user 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 or gate while in motion.

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

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

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

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 or gate. In case of break down or malfunctioning of the product, disconnect from mains, do not attempt to repair or intervene directly and contact only qualified personnel.

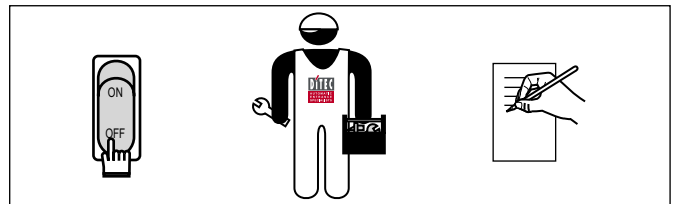
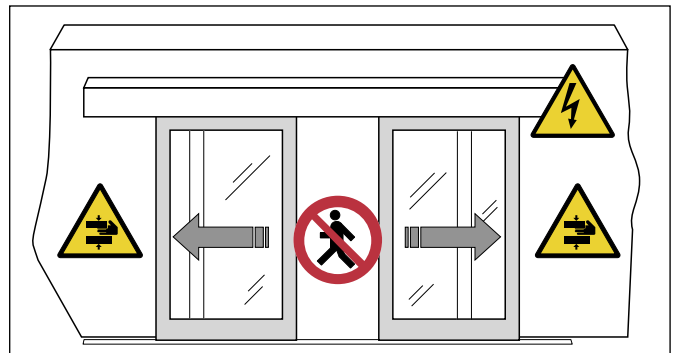
Failure to comply with the above may create a situation of danger.

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 or gate 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.

SELECTORS FUNCTIONS	Com96	ComH-K
DOOR CLOSED	--	
TOTAL BI-DIRECTIONAL OPENING		
TOTAL UNI-DIRECTIONAL OPENING		
STOP		
DOOR OPEN	--	
PARTIAL OPENING		



TEAR OFF AND DELIVER TO USER



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