



**AUTOMATIC ENTRANCE SPECIALISTS**

**CE**

**KIT REX**

IP1837 - rev. 2007-07-17



- ① Manuale di assemblaggio per porte scorrevoli.
- ② GB Assembly handbook for sliding doors.
- ③ F Manuel pour l'assemblage pour portes coulissantes.
- ④ D Zusammenbauanleitung für Schiebtürantrieb.
- ⑤ E Manual de ensamblaje para puertas correderas.
- ⑥ P Manual de ensamblagem para portas deslizantes.



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)

|      | CODE                                                                             | REF | DESCRIZIONE                            | DESCRIPTION                                | DESCRIPTION                                  | QT    |
|------|----------------------------------------------------------------------------------|-----|----------------------------------------|--------------------------------------------|----------------------------------------------|-------|
| 94   | KREX1V                                                                           |     | <b>Componenti fissi 1 anta:</b>        | <b>1-leaf fixed components</b>             | <b>Composants fixes 1 battant:</b>           |       |
|      |                                                                                  | 1   | Gruppo comando e trazione              | Control and traction unit                  | Groupe commande et traction                  | 1     |
|      |                                                                                  | 2   | Gruppo rinvio cinghia                  | Transmission unit                          | Groupe renvoi courroie                       | 1     |
|      |                                                                                  | 3   | Gruppo carrello                        | Carriage unit                              | Groupe chariot                               | 2     |
|      |                                                                                  | 4   | Attacco cinghia                        | Belt connection                            | Fixation courroie                            | 1     |
|      |                                                                                  | 5   | Supporto attacco cinghia               | Belt connection support                    | Support fixation courroie                    | 1     |
|      |                                                                                  | 6   | Tappo battuta                          | Rabbit plug                                | Butée chariot                                | 2     |
|      |                                                                                  | 7   | Fermo battuta                          | Rabbit stop                                | Butée                                        | 2     |
|      |                                                                                  | 8   | Testata cassonetto                     | Transom case head                          | Extrémités caisson                           | 2     |
|      |                                                                                  | 9   | Coperchio fermacavi                    | Wire clip cover                            | Couvercle serre-câbles                       | 10    |
|      |                                                                                  | 10  | Piatto fissaggio componenti            | Component anchorage plate                  | Platine de fixation composants               | 2     |
|      |                                                                                  | -   | Coppia proiett. ricevitore CelPR       | CelPR projector receiver couple            | Couple projecteur récepteur CelPR            | 1     |
|      |                                                                                  | -   | Mascherina carter                      | Casing template                            | Gabarit carter                               | 1     |
|      |                                                                                  | -   | Etichetta serie automazione            | Sticker indicating series aut. system      | Étiquette série automatisme                  | 1     |
|      |                                                                                  | -   | Etichetta senso ap. anta               | Sticker indicating op. direction door leaf | Étiquette sens ap. battant                   | 1     |
|      |                                                                                  | -   | Manuale installazione                  | Installation manual                        | Manuel d'installation                        | 1     |
| 192C | KREX1N                                                                           |     | <b>Componenti fissi 1 anta:</b>        | <b>1-leaf fixed components</b>             | <b>Composants fixes 1 battant:</b>           |       |
|      |                                                                                  | 1   | Gruppo comando e trazione              | Control and traction unit                  | Groupe commande et traction                  | 1     |
|      |                                                                                  | 2   | Gruppo rinvio cinghia                  | Transmission unit                          | Groupe renvoi courroie                       | 1     |
|      |                                                                                  | 3   | Gruppo carrello                        | Carriage unit                              | Groupe chariot                               | 2     |
|      |                                                                                  | 4   | Attacco cinghia                        | Belt connection                            | Fixation courroie                            | 1     |
|      |                                                                                  | 5   | Supporto attacco cinghia               | Belt connection support                    | Support fixation courroie                    | 1     |
|      |                                                                                  | 6   | Tappo battuta                          | Rabbit plug                                | Butée chariot                                | 2     |
|      |                                                                                  | 7   | Fermo battuta                          | Rabbit stop                                | Butée                                        | 2     |
|      |                                                                                  | 8   | Testata cassonetto                     | Transom case head                          | Extrémités caisson                           | 2     |
|      |                                                                                  | 9   | Coperchio fermacavi                    | Wire clip cover                            | Couvercle serre-câbles                       | 10    |
|      |                                                                                  | 10  | Piatto fissaggio componenti            | Component anchorage plate                  | Platine de fixation composants               | 2     |
|      |                                                                                  | -   | Coppia proiett. ricevitore CelPR       | CelPR projector receiver couple            | Couple projecteur récepteur CelPR            | 1     |
|      |                                                                                  | -   | Mascherina carter                      | Casing template                            | Gabarit carter                               | 1     |
|      |                                                                                  | -   | Etichetta serie automazione            | Sticker indicating series aut. system      | Étiquette série automatisme                  | 1     |
|      |                                                                                  | -   | Etichetta senso ap. anta               | Sticker indicating op. direction door leaf | Étiquette sens ap. battant                   | 1     |
|      |                                                                                  | -   | Manuale installazione                  | Installation manual                        | Manuel d'installation                        | 1     |
|      | KREXGC1                                                                          |     | <b>Gruppo carrelli 2. anta REX</b>     | <b>Carriage unit for 2nd REX leaf</b>      | <b>Groupe chariot 2 battant REX</b>          |       |
|      |                                                                                  | 11  | Gruppo carrello                        | Carriage unit                              | Groupe chariot                               | 2     |
|      |                                                                                  | 12  | Attacco cinghia                        | Belt connection                            | Fixation courroie                            | 1     |
|      | KREXCS                                                                           | 13  | Supporto attacco cinghia               | Belt connection support                    | Support fixation courroie                    | 1     |
|      |                                                                                  | 14  | <b>Carrello supplementare &gt;1600</b> | <b>Supplementary carriage &gt;1600</b>     | <b>Chariot supplémentaires &gt;1600</b>      |       |
|      |                                                                                  |     | Gruppo carrello                        | Carriage unit                              | Groupe chariot                               | 1     |
|      | REXAL<br>REXAC<br>REXAIC<br>REXA30<br>REXA35F<br>0KP851B<br>0KL050A<br>K5739610R |     | <b>Cassonetto e carter</b>             | <b>Transom box protective casing</b>       | <b>Caisson et carter</b>                     |       |
|      |                                                                                  | 15  | Coppia attacco lungo PAM35             | Pair of long coupling PAM35                | Paire de fixation longues PAM35              | 1     |
|      |                                                                                  | 16  | Coppia attacco corto PAM16             | Pair of short coupling PAM16               | Paire de fixation courtes PAM16              | 1     |
|      |                                                                                  | -   | Coppia attacchi P833                   | Pair of P833 coupling                      | Paire de fixation P833                       | 1     |
|      |                                                                                  | -   | Coppia attacchi REX anta PAM30         | Pair of REX couplings PAM30 wing           | Couple attaches REX volet PAM30              | 1     |
|      |                                                                                  | -   | Coppia attacchi PAM35F                 | Pair of REX couplings PAM35F wing          | Couple attaches REX volet PAM35F             | 1     |
|      |                                                                                  | 17  | Guarnizione cassonetto/carter          | Seal transom box/protective casing         | Joint caisse/carter                          | 200 m |
|      |                                                                                  | 18  | Cinghia di trasmissione                | Drive belt                                 | Courroie de transmission                     | 50 m  |
|      |                                                                                  | 19  | Kit viti T.E. M6x10 zincate + rondella | T.E. M6x10 galvan. screws + washer kit     | Jeu vis T.E. M6 x 10 galvan. + rondelle      | 1000  |
|      |                                                                                  |     |                                        |                                            |                                              |       |
|      | 0K55886<br>K6107610                                                              | 20  | Kit dadi M6 normali zincate            | M6 normal galvanized nuts kit              | Jeu d'écrous M6 normaux galvanisés           | 1000  |
|      |                                                                                  | 21  | Kit viti T.C. M6x10 zincate            | T.C. M6x10 galvanized screws kit           | Jeu de vis T.C. M6 x 10 galvanisées          | 1000  |
|      | 0K69543913SPN                                                                    | 22  | Kit autof. 3,9x13 s.p. nere            | 3.9x13 s.p. black self-tapping screws kit  | Jeu vis autotaraudeuses 3,9 x 13 S.P. noires | 1000  |
|      | VR745N33<br>VR745N44<br>VR745N66                                                 | 23  | Profilo cassonetto naturale            | Natural transom box profile                | Profil caisson naturel                       | 3.3 m |
|      |                                                                                  | 23  | Profilo cassonetto naturale            | Natural transom box profile                | Profil caisson naturel                       | 4.4 m |
|      |                                                                                  | 23  | Profilo cassonetto naturale            | Natural transom box profile                | Profil caisson naturel                       | 6.6 m |
|      | KREXSI                                                                           | 24  | Supporto intermedio carter             | Intermed. protective casing support        | Support intermédiaire carter                 | 1     |
|      | V1900N33<br>V1900N44<br>V1900N66<br>V1900G33<br>V1900G44<br>V1900G66             | 25  | Profilo carter naturale                | Natural protective casing profile          | Profil carter naturel                        | 3.3 m |
|      |                                                                                  | 25  | Profilo carter naturale                | Natural protective casing profile          | Profil carter naturel                        | 4.4 m |
|      |                                                                                  | 25  | Profilo carter naturale                | Natural protective casing profile          | Profil carter naturel                        | 6.6 m |
|      |                                                                                  | 25  | Profilo carter grezzo                  | Rough protective casing profile            | Profil carter brut                           | 3.3 m |
|      |                                                                                  | 25  | Profilo carter grezzo                  | Rough protective casing profile            | Profil carter brut                           | 4.4 m |
|      |                                                                                  | 25  | Profilo carter grezzo                  | Rough protective casing profile            | Profil carter brut                           | 6.6 m |
|      | V2995G30<br>V2995G60<br>V2995N30<br>V2995N60<br>K3016                            | 26  | <b>Attacchi anta intelaiata</b>        | <b>Framed door wing attachment</b>         | <b>Fixation du vantail sur châssis</b>       |       |
|      |                                                                                  | 26  | Profilo attacco anta generica grezzo   | Rough gen. door attachment edge            | Profil brut fixation du vantail générique    | 3 m   |
|      |                                                                                  | 26  | Profilo attacco anta generica grezzo   | Rough gen. door attachment edge            | Profil brut fixation du vantail générique    | 6 m   |
|      |                                                                                  | 26  | Profilo attacco anta generica naturale | Natural gen. door attachment edge          | Profil naturel fixation du vantail générique | 3 m   |
|      |                                                                                  | 26  | Profilo attacco anta generica naturale | Natural gen. door attachment edge          | Profil naturel fixation du vantail générique | 6 m   |
|      | K1356N30<br>K1356N60<br>K1356G30<br>K1356G60<br>KAC                              |     | <b>Attacchi anta in cristallo</b>      | <b>Glass wing attachment</b>               | <b>Fixation battant a verre</b>              |       |
|      |                                                                                  | 27  | Attacco anta in cristallo naturale     | Natural glass door attachment              | Fixation battant en verre naturel            | 3 m   |
|      |                                                                                  | 27  | Attacco anta in cristallo naturale     | Natural glass door attachment              | Fixation battant en verre naturel            | 6 m   |
|      |                                                                                  | 27  | Attacco anta in cristallo grezzo       | Rought glass door attachment               | Fixation battant en verre brut               | 3 m   |
|      |                                                                                  | 27  | Attacco anta in cristallo grezzo       | Rought glass door attachment               | Fixation battant en verre brut               | 6 m   |
|      | 0KP515AB<br>0KP369                                                               | -   | Kit accessori per AC1356               | AC1356 accessories                         | Accessoire AC1356                            | 1     |
|      |                                                                                  |     |                                        |                                            |                                              |       |
|      |                                                                                  |     | <b>Pattini guida anta a pavimento</b>  | <b>Floor sliding guide</b>                 | <b>Rails battant</b>                         |       |
|      |                                                                                  | 28  | Pattino guida anta intelaiata          | Sliding guide for framed wing              | Rail battant à châssis                       | 10    |
|      |                                                                                  | 29  | Pattino guida anta in cristallo        | Sliding guide for glass wing               | Rail battant en verre                        | 10    |

| CODE                        | REF | DESCRIZIONE                               | DESCRIPTION                       | DESCRIPTION                                              | QT    |
|-----------------------------|-----|-------------------------------------------|-----------------------------------|----------------------------------------------------------|-------|
| 0KZ18REX<br>LOKSBM<br>REXAB | 30  | <b>Accessori</b><br>Blocco di sicurezza   | <b>Accessories</b><br>Safety lock | <b>Accessoires</b><br>Blocage de sécurité avec déblocage | -     |
|                             | -   | Sblocco supplementare                     | Supplementary release device      | Déblocage supplémentaire                                 | -     |
|                             | 32  | Antipánico a batterie                     | Antipanic with battery            | Antipanique à batterie                                   | 1     |
| VSP14V25                    | 31  | <b>Spazzolini</b><br>Spazzolini di tenuta | <b>Brushes</b><br>Sealing brushes | <b>Brosses</b><br>Brosse d'étanchéité                    | 2.5 m |

#### LEGENDA

**PL** = Vano passaggio orizzontale  
**LM** = Lunghezza anta mobile  
**LT** = Lunghezza totale automazione  
**LB** = Lunghezza cinghia  
**S** = Sormonto (nominale = 50)

#### CAPTION

**PL** = Horizontal passageway  
**LM** = Mobile wing length  
**LT** = Overall automatic system length  
**LB** = Belt length  
**S** = Overlap (nominal = 50)

#### LÉGENDE

**PL** = Zone de passage horizontal.  
**LM** = Longuer du vantail mobile.  
**LT** = Longuer totale automatisme.  
**LB** = Longuer de la courroie.  
**S** = Chevauchement (nominal=50)

#### NOTE

**(1)** Trasformatore esterno  
**(2)** Batterie esterne [32]  
**(3)** Se LM>1600 aggiungere terzo carrello [14]  
**(4)** Se LT≥3200 usare supporto inter-medio carter KREXSI [24]

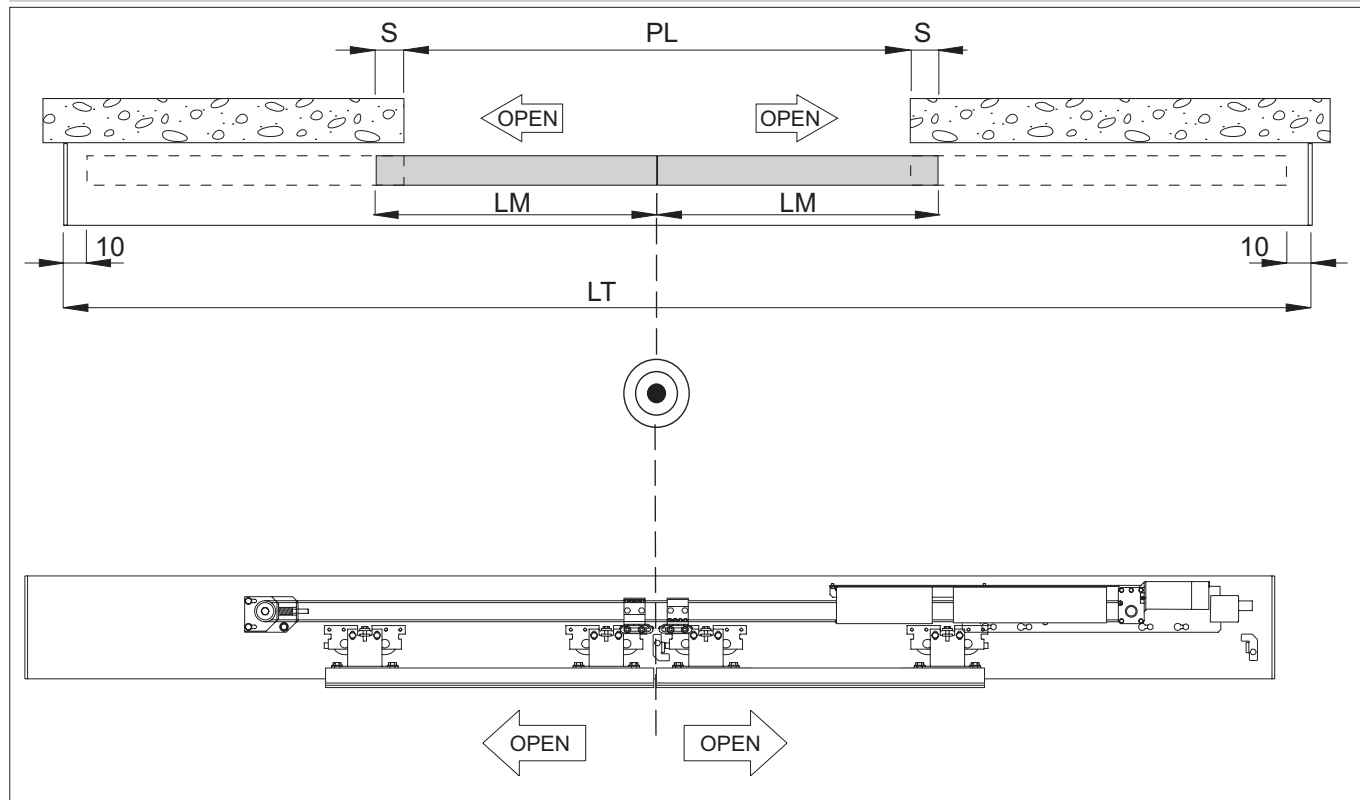
#### NOTE

**(1)** External transformer.  
**(2)** External batteries [32].  
**(3)** If LM>1600 add third carriage [14]  
**(4)** If LT≥3200 use the KREXSI intermediate protective casing support [24]

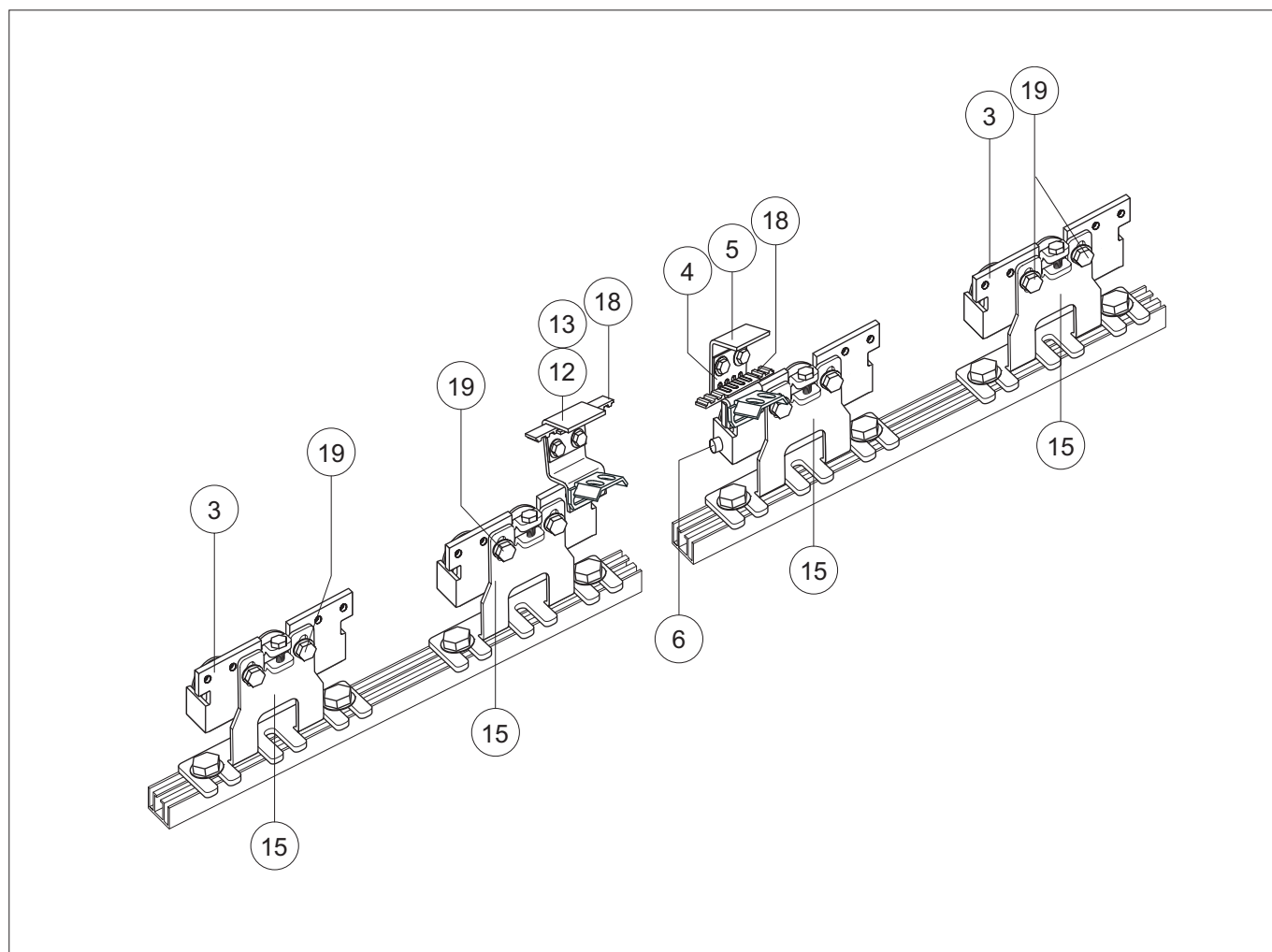
#### NOTE

**(1)** Transformateur externe.  
**(2)** Batterie externes [32].  
**(3)** Si LM>1600 ajouter un troisième chariot [14]  
**(4)** Si LT≥3200 utiliser support inter-médiaire du carter KREXSI [24]



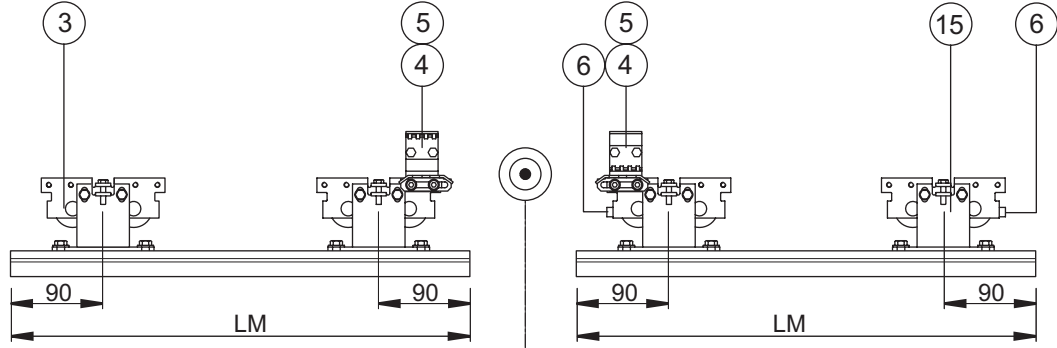
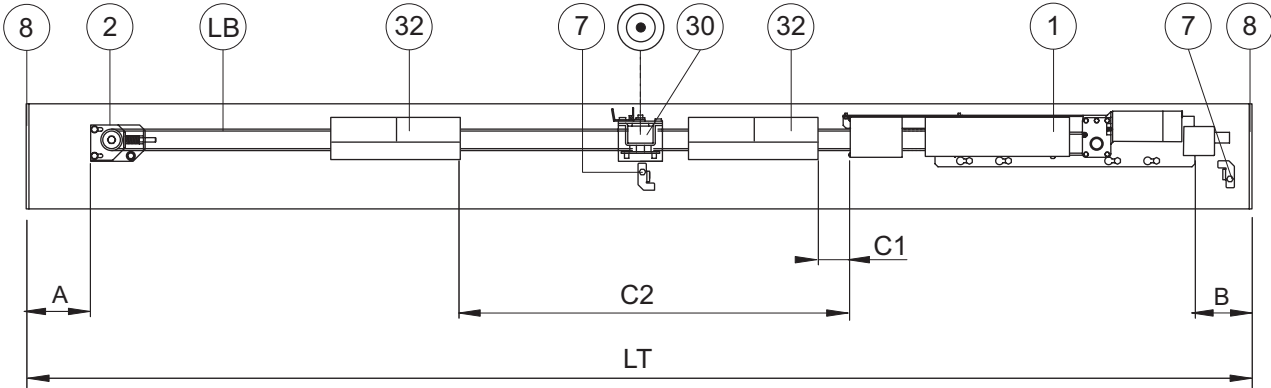


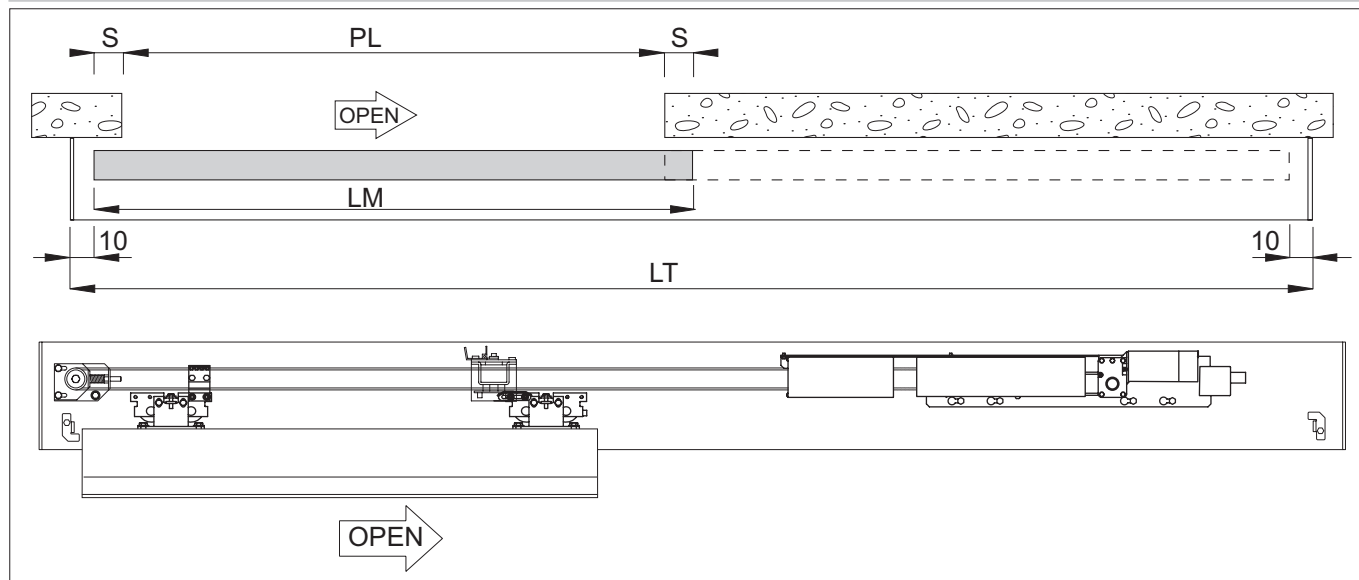
**Gruppo carrello con attacco anta intelaiata - Carriage unit with framed wing attachment - Groupe chariot avec fixation vantail sur châssis - Laufwagengruppe mit Anschluß für Rahmenflügel - Grupo carro con fijación hoja en el marco - Grupo carro com engate portinhola encaixilhada**



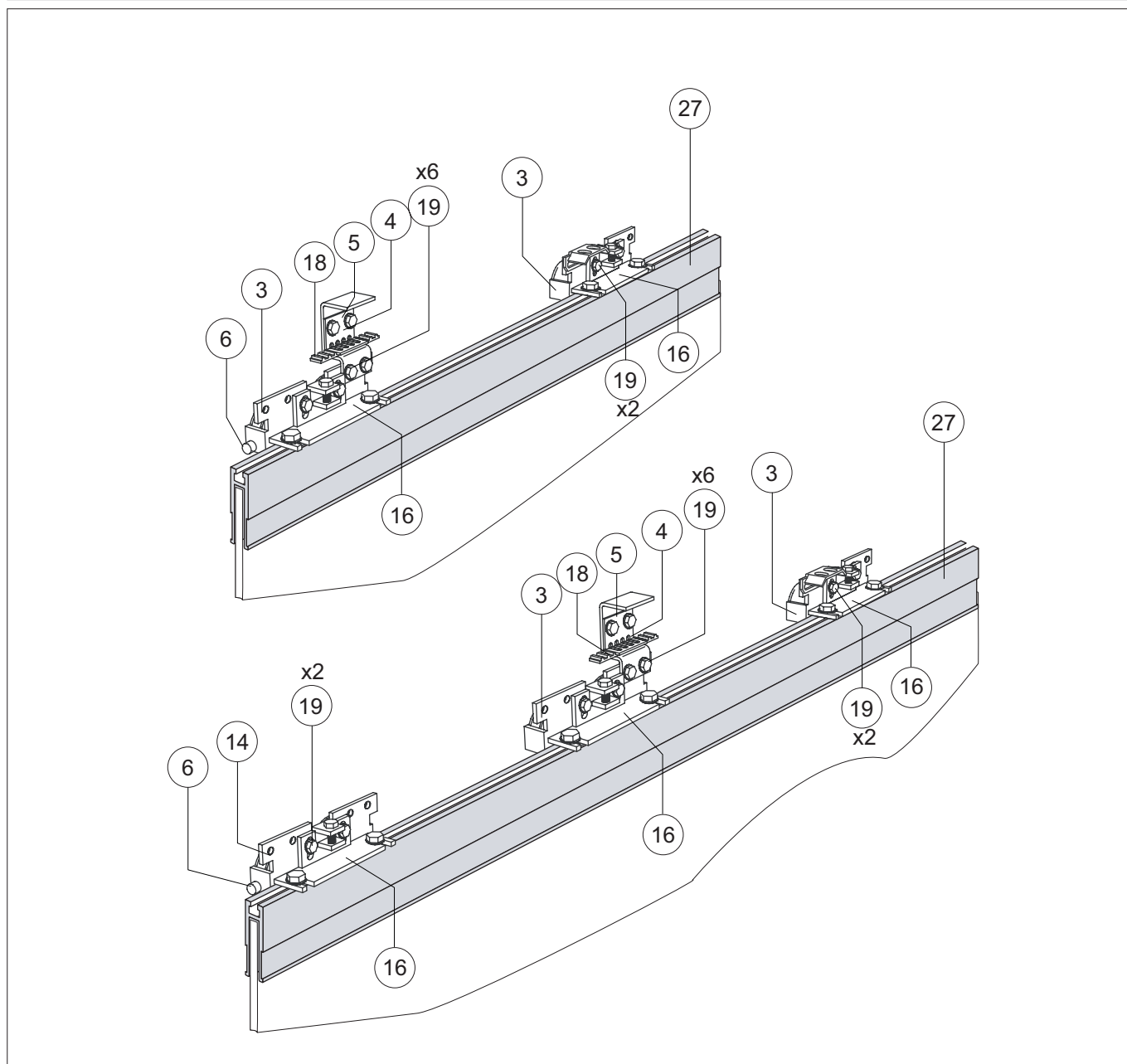
REX-2

| Code    | PL   | LM   | LT   | A    | B    | C1 | C2  | LB   | Note   |
|---------|------|------|------|------|------|----|-----|------|--------|
| 02REX20 | 940  | 520  | 2000 | 260  | 100  | -  | 250 | 2980 |        |
| 02REX22 | 1040 | 570  | 2200 | 310  | 150  | -  | 300 | 3180 |        |
| 02REX24 | 1140 | 620  | 2400 | 360  | 200  | -  | 350 | 3380 |        |
| 02REX26 | 1240 | 670  | 2600 | 410  | 250  | -  | 400 | 3580 |        |
| 02REX28 | 1340 | 720  | 2800 | 460  | 300  | -  | 450 | 3780 |        |
| 02REX30 | 1440 | 770  | 3000 | 510  | 350  | -  | 500 | 3980 |        |
| 02REX32 | 1540 | 820  | 3200 | 560  | 400  | -  | 550 | 4180 | (4)    |
| 02REX36 | 1740 | 920  | 3600 | 660  | 500  | -  | 650 | 4580 | (4)    |
| 02REX40 | 1940 | 1020 | 4000 | 760  | 600  | 50 | -   | 4980 | (4)    |
| 02REX44 | 2140 | 1120 | 4400 | 860  | 700  | 50 | -   | 5380 | (4)    |
| 02REX48 | 2340 | 1220 | 4800 | 960  | 800  | 50 | -   | 5780 | (4)    |
| 02REX52 | 2540 | 1320 | 5200 | 1060 | 900  | 50 | -   | 6180 | (4)    |
| 02REX56 | 2740 | 1420 | 5600 | 1160 | 1000 | 50 | -   | 6580 | (4)    |
| 02REX60 | 2940 | 1520 | 6000 | 1260 | 1100 | 50 | -   | 6980 | (4)    |
| 02REX66 | 3240 | 1670 | 6600 | 1410 | 1250 | 50 | -   | 7580 | (3)(4) |



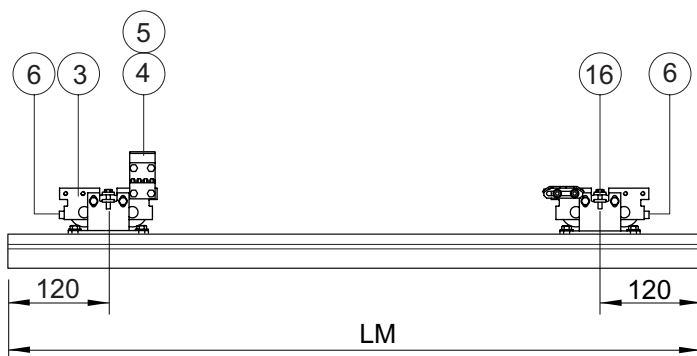
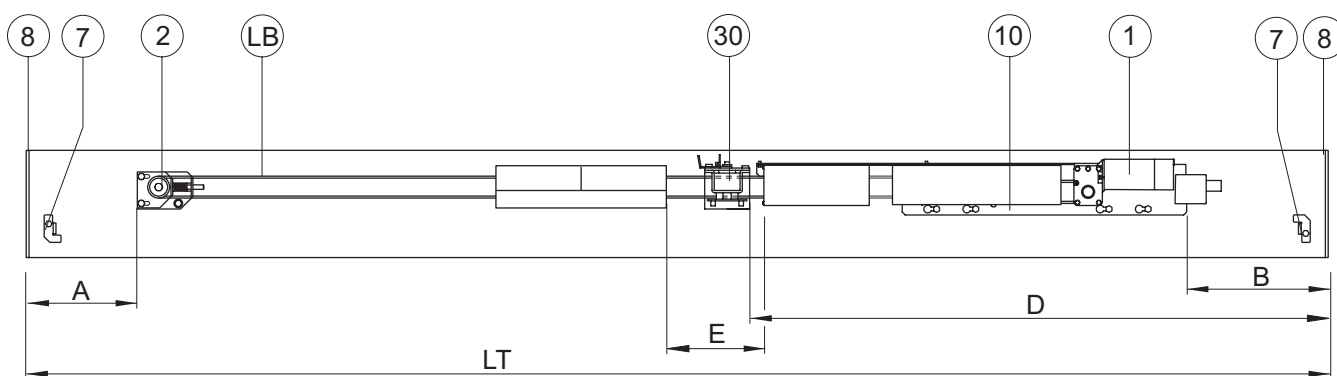


**Gruppo carrello con attacco anta cristallo - Carriage unit with crystal wing attachment - Groupe chariot avec fixation vantail verre - Laufwagengruppe mit Anschluß für Ganzglasflügel - Grupo carro con fijación hoja cristal - Grupo carro com engate portinhola em cristal**

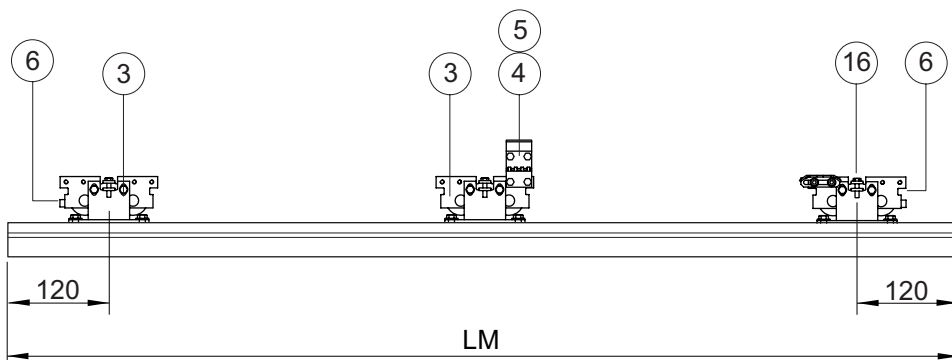


# **REX-1 DX**

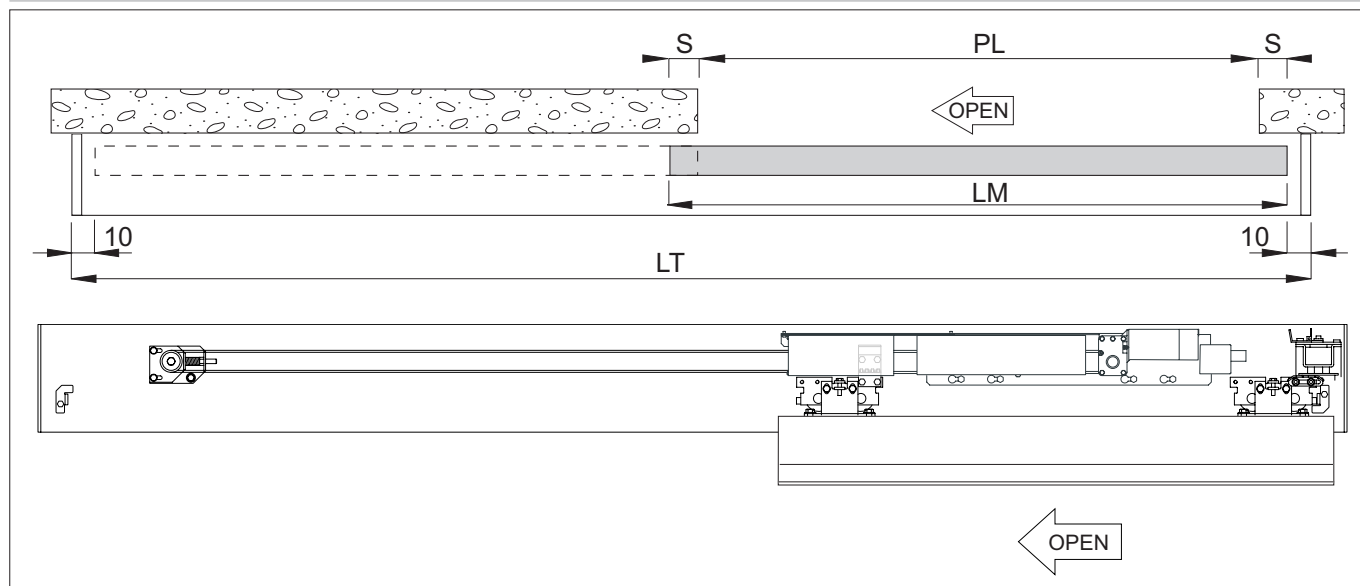
| Code    | PL   | LM   | LT   | A    | B    | D    | E   | LB   | Note   |
|---------|------|------|------|------|------|------|-----|------|--------|
| 01REX14 | 615  | 715  | 1400 | 30   | 0    | 835  | 200 | 2440 | (1)(2) |
| 01REX16 | 715  | 815  | 1600 | 30   | 100  | 935  | 200 | 2640 |        |
| 01REX18 | 815  | 915  | 1800 | 30   | 200  | 1035 | 200 | 2840 |        |
| 01REX20 | 915  | 1015 | 2000 | 30   | 300  | 1135 | 200 | 3040 |        |
| 01REX22 | 1015 | 1115 | 2200 | 30   | 400  | 1235 | 200 | 3240 |        |
| 01REX24 | 1115 | 1215 | 2400 | 30   | 500  | 1335 | 200 | 3440 |        |
| 01REX26 | 1215 | 1315 | 2600 | 30   | 600  | 1435 | 200 | 3640 |        |
| 01REX28 | 1315 | 1415 | 2800 | 30   | 700  | 1535 | 200 | 3840 |        |
| 01REX30 | 1415 | 1515 | 3000 | 30   | 800  | 1635 | 200 | 4040 |        |
| 01REX32 | 1515 | 1615 | 3200 | 650  | 350  | 1735 | 50  | 4100 |        |
| 01REX36 | 1715 | 1815 | 3600 | 750  | 450  | 1935 | 50  | 4500 |        |
| 01REX40 | 1915 | 2015 | 4000 | 850  | 550  | 2135 | 50  | 4900 |        |
| 01REX44 | 2115 | 2215 | 4400 | 950  | 650  | 2335 | 50  | 5300 |        |
| 01REX48 | 2315 | 2415 | 4800 | 1050 | 750  | 2535 | 50  | 5700 |        |
| 01REX52 | 2515 | 2615 | 5200 | 1150 | 850  | 2735 | 50  | 6100 |        |
| 01REX56 | 2715 | 2815 | 5600 | 1250 | 950  | 2935 | 50  | 6500 |        |
| 01REX60 | 2915 | 3015 | 6000 | 1350 | 1050 | 3135 | 50  | 6900 |        |
| 01REX66 | 3215 | 3315 | 6600 | 1500 | 1200 | 3435 | 50  | 7500 |        |



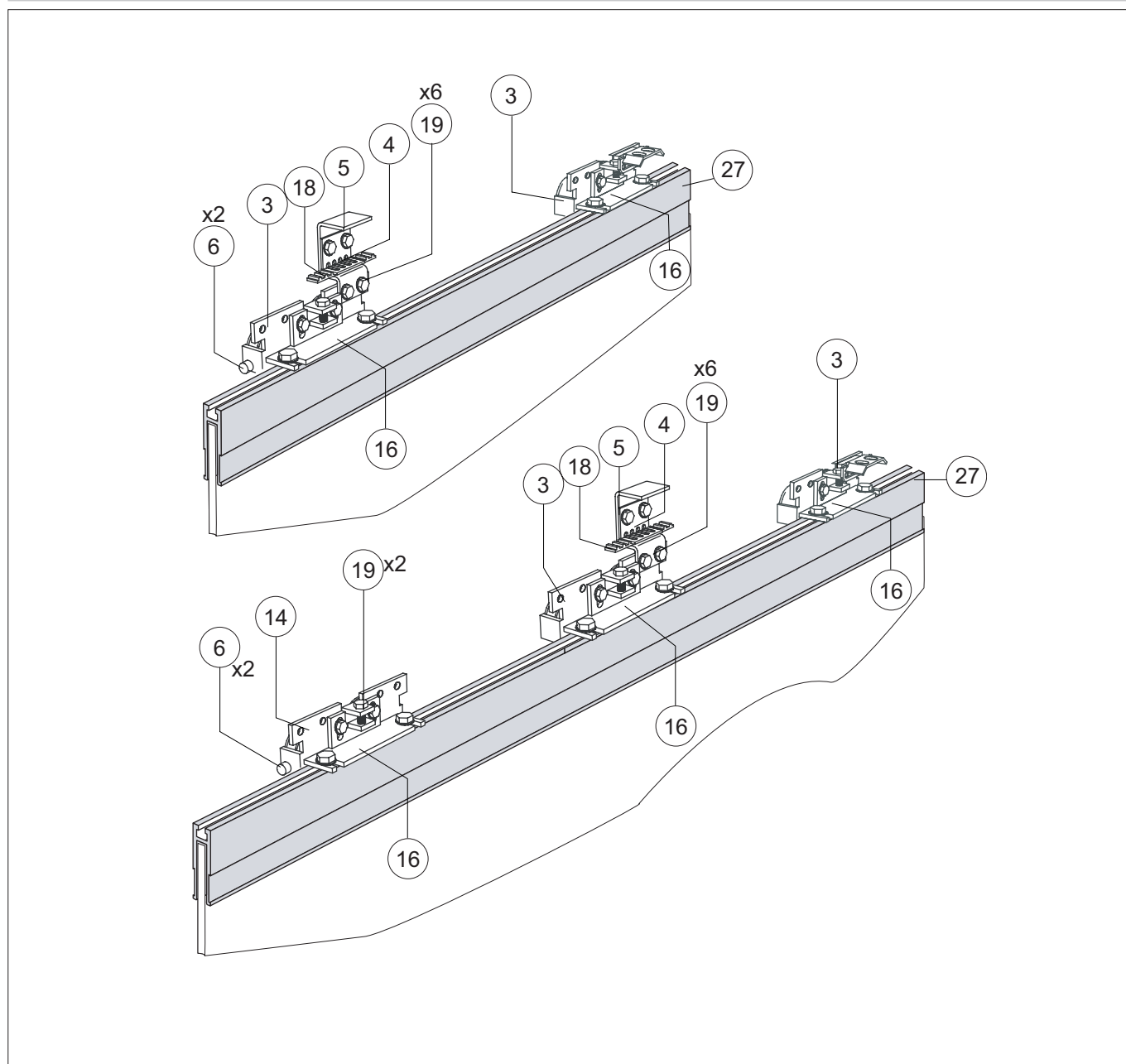
OPEN



OPEN

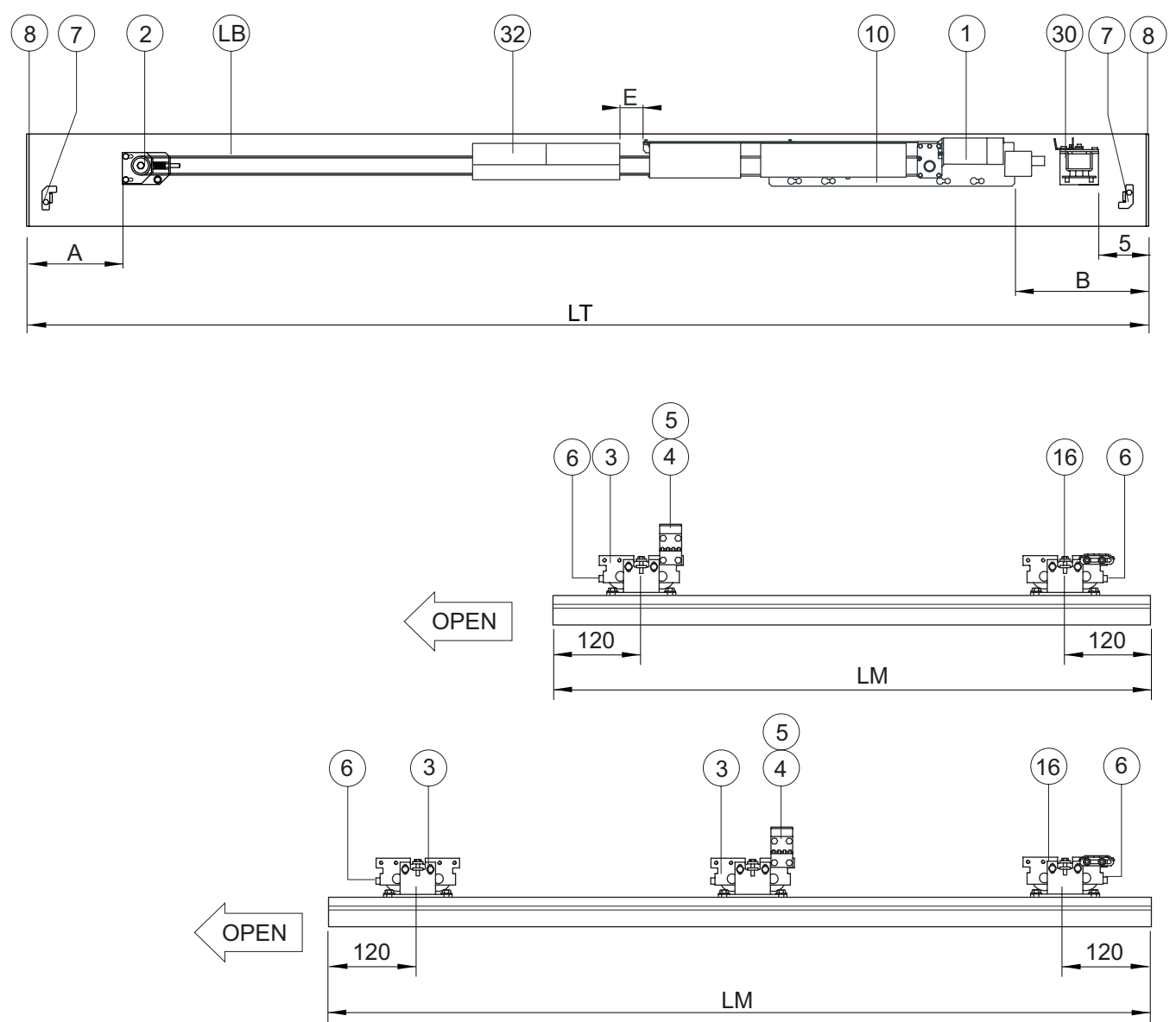


**Gruppo carrello con attacco anta cristallo - Carriage unit with crystal wing attachment - Groupe chariot avec fixation vantail verre - Laufwagengruppe mit Anschluß für Ganzglasflügel - Grupo carro con fijación hoja cristal - Grupo carro com engate portinhola em cristal**



REX-1 SX

| Code    | PL   | LM   | LT   | A    | B    | D | E  | LB   | Note   |
|---------|------|------|------|------|------|---|----|------|--------|
| 01REX12 | 515  | 615  | 1200 | 30   | 100  | 5 | -  | 1840 | (1)(2) |
| 01REX14 | 615  | 715  | 1400 | 30   | 200  | 5 | -  | 2040 | (2)    |
| 01REX16 | 715  | 815  | 1600 | 30   | 250  | 5 | 50 | 2340 |        |
| 01REX18 | 815  | 915  | 1800 | 30   | 350  | 5 | 50 | 2540 |        |
| 01REX20 | 915  | 1015 | 2000 | 30   | 450  | 5 | 50 | 2740 |        |
| 01REX22 | 1015 | 1115 | 2200 | 30   | 550  | 5 | 50 | 2940 |        |
| 01REX24 | 1115 | 1215 | 2400 | 30   | 650  | 5 | 50 | 3140 |        |
| 01REX26 | 1215 | 1315 | 2600 | 30   | 750  | 5 | 50 | 3340 |        |
| 01REX28 | 1315 | 1415 | 2800 | 30   | 850  | 5 | 50 | 3540 |        |
| 01REX30 | 1415 | 1515 | 3000 | 30   | 950  | 5 | 50 | 3740 |        |
| 01REX32 | 1515 | 1615 | 3200 | 650  | 350  | 5 | 50 | 4100 | (3)(4) |
| 01REX36 | 1715 | 1815 | 3600 | 750  | 450  | 5 | 50 | 4500 | (3)(4) |
| 01REX40 | 1915 | 2015 | 4000 | 850  | 550  | 5 | 50 | 4900 | (3)(4) |
| 01REX44 | 2115 | 2215 | 4400 | 950  | 650  | 5 | 50 | 5300 | (3)(4) |
| 01REX48 | 2315 | 2415 | 4800 | 1050 | 750  | 5 | 50 | 5700 | (3)(4) |
| 01REX52 | 2515 | 2615 | 5200 | 1150 | 850  | 5 | 50 | 6100 | (3)(4) |
| 01REX56 | 2715 | 2815 | 5600 | 1250 | 950  | 5 | 50 | 6500 | (3)(4) |
| 01REX60 | 2915 | 3015 | 6000 | 1350 | 1050 | 5 | 50 | 6900 | (3)(4) |
| 01REX66 | 3215 | 3315 | 6600 | 1500 | 1200 | 5 | 50 | 7500 | (3)(4) |



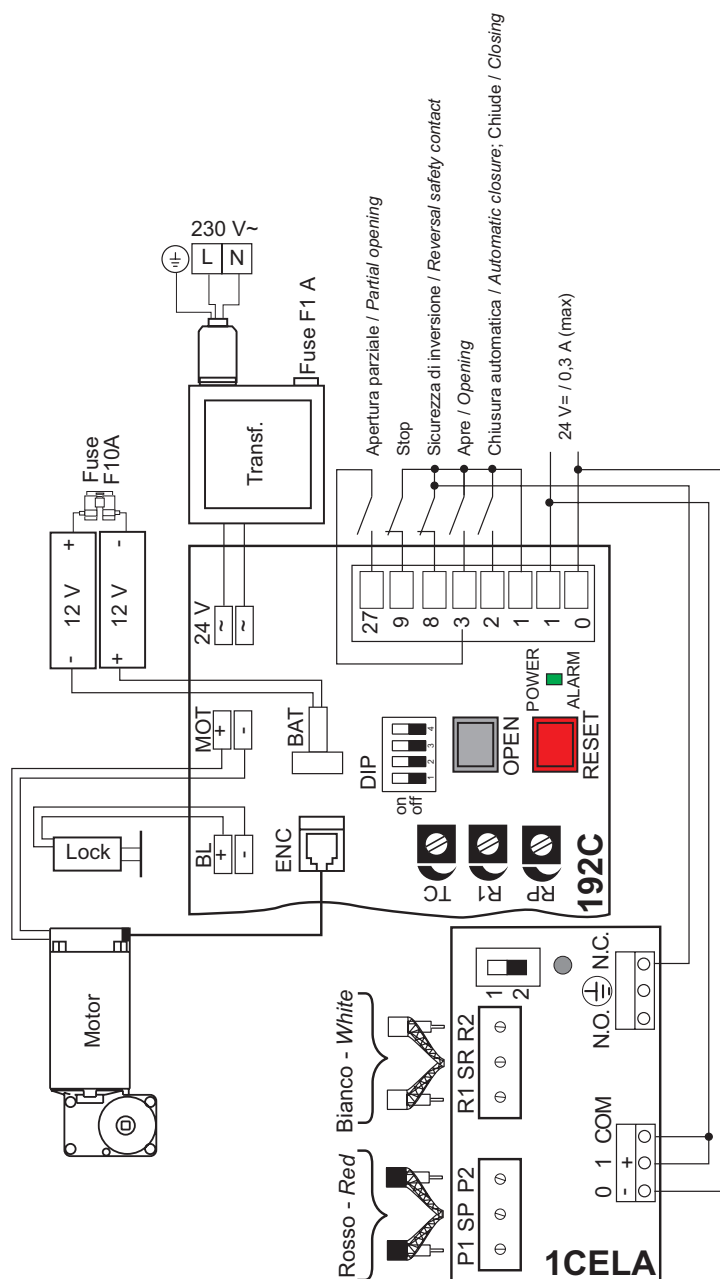


Fig. 2



## GENERAL SAFETY PRECAUTIONS



This assembling manual is intended for professionally competent personnel only.

The assembling, the electrical connections and the settings must be completed in conformity with good workmanship and with the laws in force. Read the instructions carefully before beginning assembling the product. Incorrect assembling may be a source of danger.

Packaging materials (plastics, polystyrene, etc) must not be allowed to litter the environment and must be kept out of the reach of children for whom they may be a source of danger.

Before beginning the assembling check that the product is in perfect condition.



Before connecting to the mains check that the rating is correct for the destination power requirements.

A multipolar isolation switch with minimum contact gaps of 3 mm must be included in the mains supply. Check that upstream of the electrical installation there is an adequate differential switch and a suitable circuit breaker.

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



It is recommended that antistatic conductive earthed arm bands be worn when manipulating electronic parts.

## 1. ASSEMBLING THE AUTOMATIC SYSTEM

### 1.1 Assembling procedure

- On the basis of the type of automatic system chosen, use the sizing table (or the formulas shown) to obtain the measurements required for the assembly of the automatic system.
- Cut the aluminium of the transom box LT-10 mm and drill a hole as shown in fig. 1.
- 1.3 Cut the aluminium of the protective casing LT-11 mm and drill a hole as shown in fig. 1.

*Note: clean the aluminium in order to remove any traces of cut material, and clean the carriage sliding tracks in particular.*

- Mark measurements A, B and C shown in the table (or calculated using the formula) on the transom box with a pencil.
- Insert 2 carriages for each leaf in the guide track; if  $LM > 1600$  add another carriage per leaf (note 1).
- Make the carriages slide along the guide tracks in order to check that the wheels are not dented (and replace them if dented).
- Fasten the leaf connection brackets on the carriages (as shown in the diagrams) and fasten the belt connection and collision locking brackets to the carriages in the positions shown in the table.
- Fit the component anchorage plates [10] in the appropriate guide track of the transom box, see page 11.
- Secure the parts (without over-tightening): command and drive unit [1], belt transmission [2], block [30] and batteries [32], to the casing with the supplied screws, and follow the measurements indicated in the table.

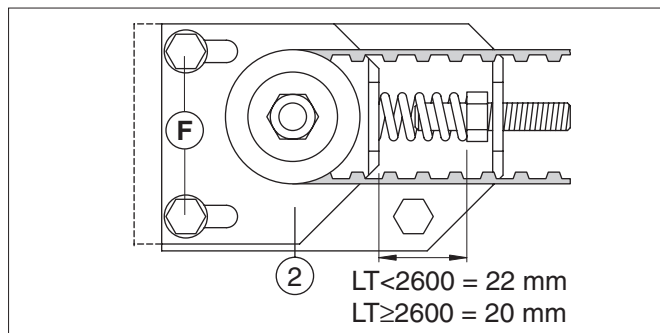
*Note: with automatic systems  $LT \geq 3200$  anchor the protective casing support bracket [24].*

- Position the rabbet stops [7] and rabbet plugs [6] inside the guide track.

### 1.2 Adjusting the belt

- Loosen the screws that fasten the transmission unit to the transom box.

- Loosen the belt connection bracket.
- Cut the belt to measurement LB (see tables), thread the belt LB between the motor pulley and the transmission unit [2] and join it in correspondence with the belt connection bracket (Note: cut off any excess length).
- Pull the entire transmission unit manually to the left and anchor it to the transom box.



- Loosen the screw until the spring is compressed to  $20 \pm 22$  mm.
- Lock in place with the screws [F].
- Insert the rabbet stop in the centre of the transom box without tightening the screws. Keep the carriages resting against the rabbet stop and fasten the belt on the carriage.

*Attention: a wrong adjustment can prevent the automation from working properly.*

- Tighten all the screws.
- Anchor the heads to the transom box.

## 2. WIRING

- Connect the command and drive unit [1] to the block [30] and to the batteries [32] with the appropriate wires.
- For the 192C electronic board version only, connect the 1CELA photocell amplifier to the electronic board (fig. 2).
- Fasten the wires using the wire clips [9] supplied.

### 3. TESTING THE AUTOMATIC SYSTEM WITH 192C ELECTRONIC BOARD

#### 3.1 Checking the dip-switches

| ACTION                                                   | OUTCOME                                                                                                                                         |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| DIP1 = OFF                                               | - lock not powered with closed door<br>- a command powers the lock throughout the opening manoeuvre<br><i>Warning: DIP1 must be set to OFF.</i> |
| DIP2 = OFF for REX2 and REX1-DX<br>DIP2 = ON for REX1-SX | - variation of the opening direction                                                                                                            |
| DIP3 = ON                                                | - battery function, if present, in the event of blackout                                                                                        |
| DIP3 = OFF                                               | - in the event of blackout, the automation with the batteries present performs the last opening manoeuvre and then switches off                 |

#### 3.2 Functional test

Wire up as shown in fig. 2, close the contacts 1-8, 1-9.

Connect the transformer to mains (230 V~/50 Hz).

Give the following commands to the electric board and visually check for correct response and straight and smooth running.

| ACTION                                                                                                                                            | OUTCOME                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Electronic board turned on                                                                                                                        | - green LED lit<br>- red amplifier card LED lit                                |
| Command 1-2 permanent and TC trimmer at minimum                                                                                                   | - closure manoeuvre                                                            |
| Command 1-3 (impulsive)                                                                                                                           | - opening manoeuvre                                                            |
| Command 27-3 (impulsive) and RP trimmer at minimum                                                                                                | - partial opening manoeuvre                                                    |
| Command 1-8 during closure (contact open)                                                                                                         | - re-opening                                                                   |
| Control of the photocell card during the closure phase:<br>- connect the 1CelA photocell amplifier to the electronic board<br>- connect the CelPR | - the gate should open when the optical alignment between TX and RX is broken. |
| Command 1-9 (contact open)                                                                                                                        | - stop for the duration of the command                                         |
| RESET pushbutton (of the electrical control panel)                                                                                                | - reset, encoder zero setting                                                  |

#### 3.3 Chaos test

Send repeated open and close commands so as to cause the wing or wings to continuously reverse direction of movement without stopping (for at least 1 minute). Check that the automation system does not fail to appropriately keep wing position under control nor cause the wing or wings to slam, and that no logic malfunction occurs.

#### 3.4 Checking the trimmers

| ACTION                                                                  | OUTCOME                                                                  |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| RP trimmer adjustment                                                   | - variation of the partial opening                                       |
| TC trimmer adjustment                                                   | - variation of the automatic closure time                                |
| R1 trimmer adjustment and opposition to the movement of the door leaves | - variation of motor power / obstacle detection (reopening and stopping) |

#### 3.5 Default setting

At the end of the test, make the following settings:

- all the trimmers set to minimum;
- all the dip-switches in the OFF position (the position of DIP2 depends on the type of automatic system);
- disconnect batteries (if installed), checking that the electric board is not being powered by them (press RESET command).

#### 3.6 General controls

- Control the length of the casing, the passage width and the width of the leaf.
- Tie the power supply cable and command cables with related channels.
- Apply the casing seal.
- Perform a general check (belt tension, screw tightness, etc).
- Fill-in and apply the CE label.

## 4. TESTING THE AUTOMATIC SYSTEM WITH EL16 ELECTRONIC BOARD

### 4.1 Checking the dip-switches

| DIR | ACTION                                                   | OUTCOME                                                                                                                                                                                     |
|-----|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | DIP1 = OFF for REX2 and REX1-DX<br>DIP1 = ON for REX1-SX | - changing the opening direction                                                                                                                                                            |
|     | DIP2 = ON for REX                                        | - automation type selection<br><i>Warning: DIP2 must be set to ON</i>                                                                                                                       |
|     | DIP1 = ON<br>DIP2 = OFF                                  | - battery function, if present, in the event of blackout<br>- in the event of blackout, the automation with the batteries present performs the last opening manoeuvre and then switches off |
|     | DIP3 = OFF for REX                                       | - block type selection<br><i>Warning: DIP3 must be set to OFF</i>                                                                                                                           |

### 4.2 Functional test

Wire up as shown in fig. 3, close the contacts 41-6, 41-8, 1-9.

Connect the transformer to mains (230 V~/50 Hz).

Give the following commands to the electric board and visually check for correct response and straight and smooth running.

| ACTION                                                                         | OUTCOME                                                                        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Electric board turned on                                                       | - green LED lit                                                                |
| Command 1-3A and OPEN button (impulsive)                                       | - closure manoeuvre                                                            |
| Command 1-4 (impulsive)                                                        | - opening manoeuvre                                                            |
| Command 27-3B (impulsive) and RP trimmer at minimum                            | - partial opening manoeuvre                                                    |
| Close contacts 1-2                                                             | - re-opening                                                                   |
| Command 41-6 during opening (opening contact)                                  | - reduce in the last 500 mm of the door stroke when the contact is opened.     |
| Command 41-8 during closure (contact open)                                     | - the gate should open when the optical alignment between TX and RX is broken. |
| Control of the photocell card during the closure phase:<br>- connect the CelPR | - stop for the duration of the command                                         |
| Command 1-9 (contact open)                                                     | - reset, encoder zero setting                                                  |
| Command 1-29 and RESET button (impulsive)                                      | - reset, encoder data reset                                                    |

### 4.3 Chaos test

Send repeated open and close commands so as to cause the wing or wings to continuously reverse direction of movement without stopping (for at least 1 minute). Check that the automation system does not fail to appropriately keep wing position under control nor cause the wing or wings to slam, and that no logic malfunction occurs.

| ACTION                | OUTCOME                                   |
|-----------------------|-------------------------------------------|
| TC trimmer adjustment | - variation of the automatic closure time |
| R1 trimmer adjustment | - variation of the force on obstacles     |
| RF trimmer adjustment | - variation of the motor power            |
| VA trimmer adjustment | - variation of the opening speed          |
| VC trimmer adjustment | - variation of the closing speed          |
| RP trimmer adjustment | - variation of the partial opening        |

### 4.5 Default setting

Set the following configurations at the end of the test:

- all trimmers at minimum;
- DIP1 is dependent on the type of automation; DIP2=ON;
- all DIR dip-switches in the OFF position;
- disconnect batteries (if installed), checking that the electric board is not being powered by them (press RESET command).

### 4.6 General controls

- Control the length of the casing, the passage width and the width of the leaf.
- Tie the power supply cable and command cables with related channels.
- Apply the casing seal.
- Perform a general check (belt tension, screw tightness, etc).
- Fill-in and apply the CE label.