SUPER 2200 FAST

CE

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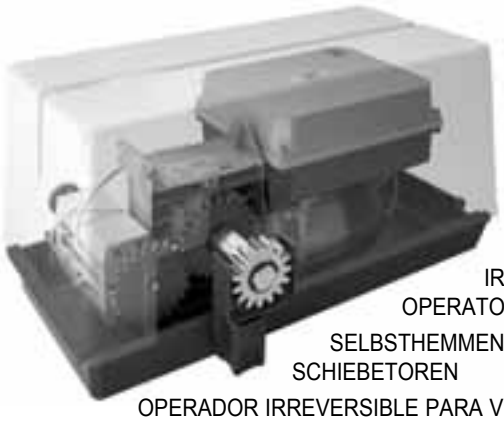


OPERATORE IRREVERSIBILE PER CANCELLI SCORREVOLI

OPERATEUR IRREVERSIBLE POUR PORTAILS COULISSANTES

IRREVERSIBLE OPERATOR FOR SLIDING GATES

SELBSTHEMMENDER TORANTRIEB FÜR SCHIEBETOREN

OPERADOR IRREVERSIBLE PARA VERJAS CORREDERAS

NUOVA VERSIONE con funzionamento a uomo presente se le fotocellule o le coste sono guaste. Conforme alle normative in vigore.

NOUVELLE VERSION avec travail avec homme present, dans le cas de panne de sécurité. Conforme aux Normes en vigueur.

NEW VERSION with functioning in dead man mode when the safety devices are failing. According to current European Norms.

NEUE VERSION mit arbeit im mannsbeisein im fall eines ausfalls der Sicherheiten. In Übereinstimmung mit der aktuellen Normen.

NUEVA VERSIÓN con funcionamiento a hombre presente en caso de averías con los accesorios de seguridad. En conformidad a las Normas en vigor.

I

ATTENZIONE

- OPERATORE CON VELOCITA' ALTA (20 M/MIN).
- SOLO PER PASSAGGIO VEICOLARE.
- INSTALLARE SOLO SE SI HA LA CERTEZZA CHE NESSUNO POSSA ENTRARE IN CONTATTO CON IL CANCELLO.
- PREDISPORRE LE SICUREZZE COME INDICATO DALLA NORMA EN12445 AFFINCHE' NIENTE E NESSUNO POSSA VENIRE ACCIDENTALMENTE A CONTATTO CON L'AUTOMAZIONE.
- UTILIZZARE SOLO CREMAGLIERA RIB IN METALLO (CONSIGLIAMO ACS9050 MOD. 4 CON CATAFORESI).

F

ATTENTION

- OPÉRATEUR A GRANDE VITESSE (20 M/MIN).
- SEULEMENT POUR LE PASSAGE DES VEHICULES.
- INSTALLEZ SEULEMENT SI VOUS TES SÛR QUE PERSONNE NE PEUT TRE TOUCHÉ PAR LA PORTE.
- EQUIPEZ DE SECURITES COMME INDIQUE SUR LA NORME EN12445 POUR ÉVITER QUE QUELQUE CHOSE OU QUELQU'UN PUISSE TRE TOUCHÉE PAR LA PORTE.
- UTILISER SEULEMENT CRÉMAILLÈRE RIB EN ACIER (ON CONSEILLE ACS9050 Mod. 4 TRAITÉ CATAPHORÈSE).

G B

ATTENTION

- HIGH SPEED OPERATOR (20 M/MIN).
- INTENDED ONLY FOR PASSAGE OF VEHICLES.
- INSTALL ONLY IF YOU ARE SURE THAT NOBODY IS IN THE REACH OF THE GATE.
- MAKE SURE THAT APPROPRIATE SAFETY DEVICES ARE USED AS SHOWN IN EN12445 TO AVOID THAT SOMETHING OR SOMEBODY COULD BE HIT BY THE GATE.
- TO USE METAL RIB RACK ONLY (WE ADVISE ACS9050 MODULE 4 WITH CATAPHORESIS TREATMENT).

D

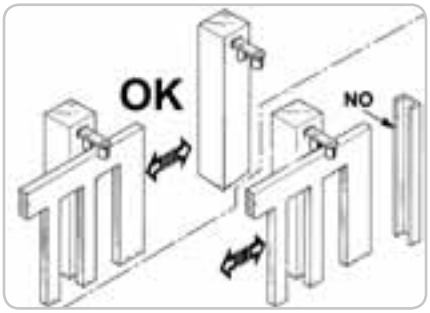
WICHTIG

- MIT HOCHGESCHWINDIGKEITSBEDIENER (20 M/MIN).
- NUR FÜR AUTO-DURCHFAHRTEN.
- INSTALLIEREN SIE DIES NUR, WENN SIE SICHER SIND, DASS NIEMAND DURCH DEN ZAUN GREIFEN KANN UND MIT DEM TOR IN BERÜHRUNG KOMMT, WIE ES DIE EN12445 VORSCHREIBT.
- ZAHNSTANGE AUS METALL BENUTZEN. WIR RATEN ACS9050 MIT KATAPHORESE.

E S

ATENCIÒN

- OPERADOR CON VELOCIDAD' ALTA (20 M/MIN).
- SOLO PARA PASAJE DE VEHICULOS.
- INSTALAR SÒLO SI SE TIENE LA SEGURIDAD QUE NINGUNO PUEDA ENTRAR EN CONTACTO CON LA CANCELA.
- PREDISPONER LAS SEGURIDADES COMO INDICADO EN LA NORMA EN12445 TAL QUE NADA NI NADIE PUEDA VENIR ACCIDENTALMENTE EN CONTACTO CON LA AUTOMACIÒN.
- UTILIZAR SÒLO CREMALLERA RIB EN METALO (ACONSEJAMOS CÒD. ACS9050 MOD. 4 CON CATAFÒRESIS).



I SUPER 2200 FAST è applicabile solo a parti mobili che scorrono a lato della colonna di chiusura.
Non applicare SUPER 2200 FAST su parti mobili che chiudono a ridosso della colonna.

F SUPER 2200 FAST ne peut être appliqué qu'aux parties mobiles qui glissent à côté de la colonne de fermeture. Ne pas appliquer SUPER 2200 FAST sur les parties mobiles qui ferment près de la colonne.

G B Fast operators are not suitable for installations in which the mobile gate leaf ends up against a post, a U shape bar, because the knocking of gate against these fixed parts cannot always be prevented. The best solution for using Fast operators is when the gate leaf ends up next to the posts.

D SUPER 2200 FAST ist ausschließlich nur an beweglichen Teilen anzubringen, die sich seitlich an der Abschließsäule bewegen. SUPER 2200 FAST nicht an beweglichen Teilen anbringen, die dicht an der Säule schließen.

E S SUPER 2200 FAST se puede aplicar sólo a partes móviles que se se desplazan al lado de la columna de cierre. No aplicar SUPER 2200 FAST en partes móviles que se cierran cerca de la columna.

Operatore Operateur Operator Torantrieb Operador	Alimentazione Alimentation Power Supply Stromspannung Alimentacion	Peso max cancello Poids maxi portail Max gate weight Max Torgewicht Peso máx verja	Spinta max Poussée maxi Max Thrust Max Schubkraft Max Empuje	Coppia max Couple maxi Max torque Max. Drehmoment Coppia max	Codice Code Code Code Codigo
SUPER 2200 FAST	230V 50/60Hz	2200 kg / 4840 lbs	90 kg / 198 lbs	27 Nm	AA30063

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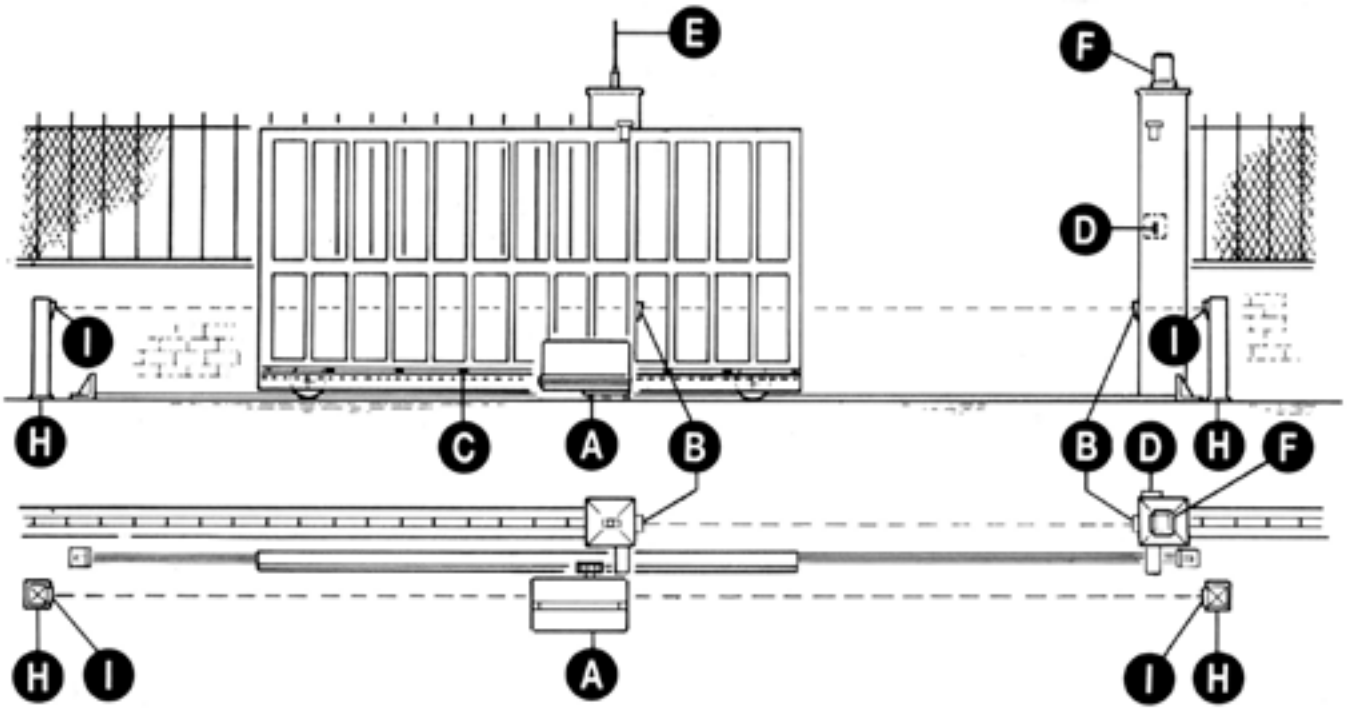
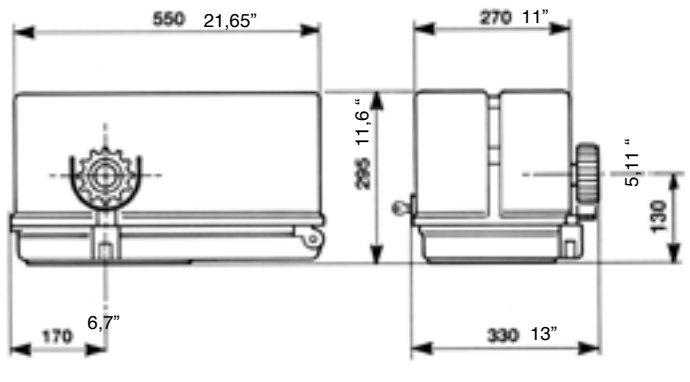


A - SUPER 2200 FAST operator
B - External photocells
C - Rack of Module 4
D - Key selector
E - Radio antenna
F - Blinker
H - Photocell posts
I - Internal Photocells
L - Mechanical stops

1

TECHNICAL FEATURES

Irreversible operating devices for sliding gates with a maximum weight of 2200 kg.
The irreversibility of this operating device allows you to avoid using any electric lock for an effective closing of the gate. The motor is protected by an heat probe, that temporary interrupts the operating cycle in case of prolonged use.



Mesures en mm/inch

TECHNICAL DATA	SUPER 2200 FAST	
Max. leaf weight	kg	2200
Operating speed	m/s.	0,336
Max. thrust force	N	900
Max. torque	Nm	27
Rack		4
EEC Power supply		230V~ 50/60Hz
Motor capacity	W	496
Power absorbed	A	2,43
Capacitor	µF	25
Normative cycles	n°	21-30s/2s
Daily operations suggested	n°	600
Service		80%
Guaranteed consecutive cycles	n°	20/10m
Grease	COMLUBE LHITGREASE EP/GR.2	
Weight of electroreducer	kg	25
Noise	db	<70
Working temperature	°C	-10 ÷ +55
Protection	IP	55

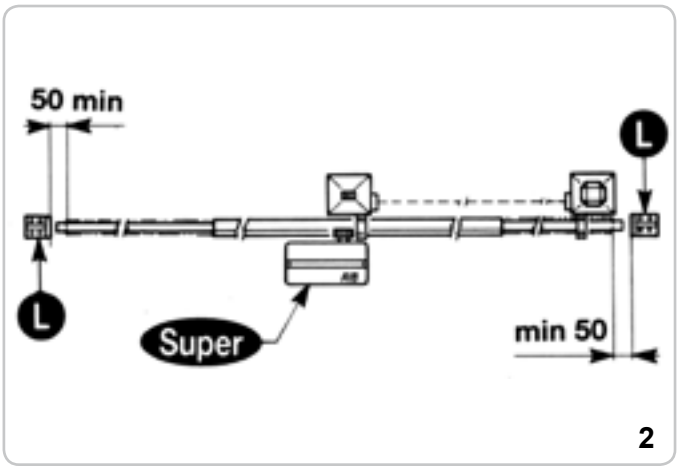
CHECKING BEFORE THE INSTALLATION

!! THE GATE SHALL MOVE FRICTIONLESS !!

N.B.: Gate features must be uniformed with the standards and laws in force. The door/gate can be automated only if it is in a good condition and its conditions comply with the EN 12604 norm.

- The door/gate leaf does not have to have a pedestrian opening. In the opposite case it is necessary to take the appropriate steps, in accordance with EN 12453 norm (for instance; by preventing the operation of the motor when the pedestrian opening is opened, by installing a safety microswitch connected with the control panel).
- Besides the electrical or mechanical limit switches available on the operators, there must be, on both ends of the installation, a fixed mechanical stopper which stop the gate in the unlikely event of ill functioning of limit swithces on the operators. For this reason the fixed mechanical stopper must be of an adeguate size to withstand the static and kinetic forces generated by the gate (12) (Fig.2).

The guide must be provided with two mechanical stops at its ends (12) (Fig. 2).
Gate columns shall have anti-derailment guides on their top (Fig. 3), to avoid the unintentional gate release.
N.B: Eliminate those mechanical stops of the kind described by figure 3.
No mechanical stop shall be on top of the gate, since mechanical stops are not safe enough.

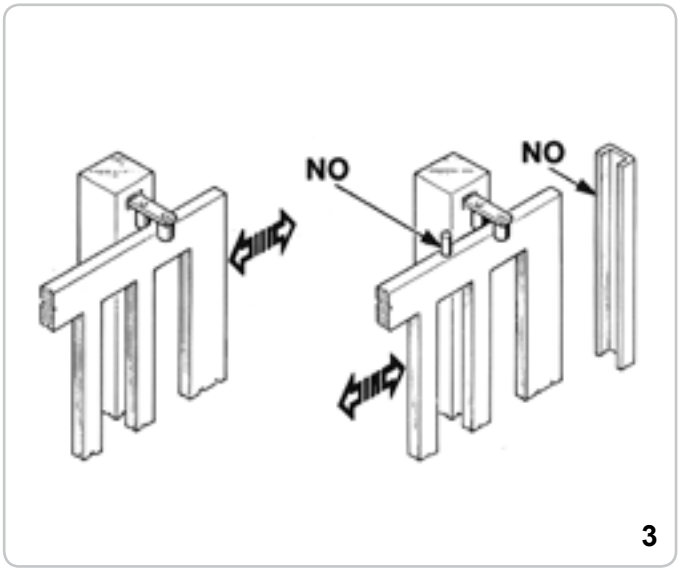


2

Parts to install meeting the EN 12453 standard

COMMAND TYPE	USE OF THE SHUTTER		
	Skilled persons (out of public area*)	Skilled persons (public area)	Unrestricted use
with manned operation	A	B	non possibile
with visible impulses (e.g. sensor)	E	E	E
with not visible impulses (e.g. remote controldevice)	E	E	E
automatic	E	E	E

* a typical example are those shutters which do not have access to any public way.
A: Command button with manned operation (that is, operating as long as activated), like code ACG2013.
B: Key selector with manned operation, like code ACG1010.
E: Photocells, like code ACG8026 (To apply every 60÷70 cm for all the height of the column of the gate up to a maximum of 2,5 m - EN 12445 point 7.3.2.1)

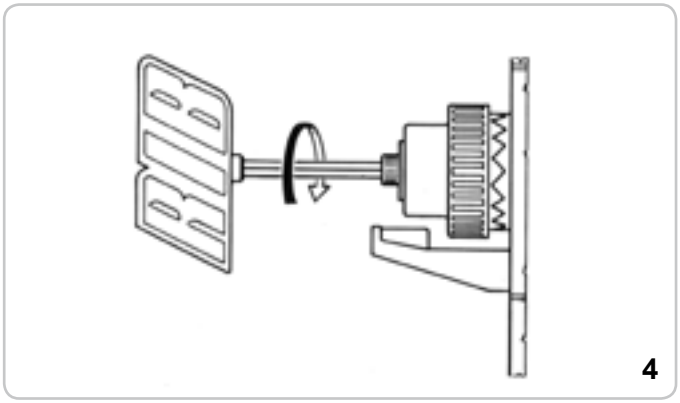


3

RELEASE

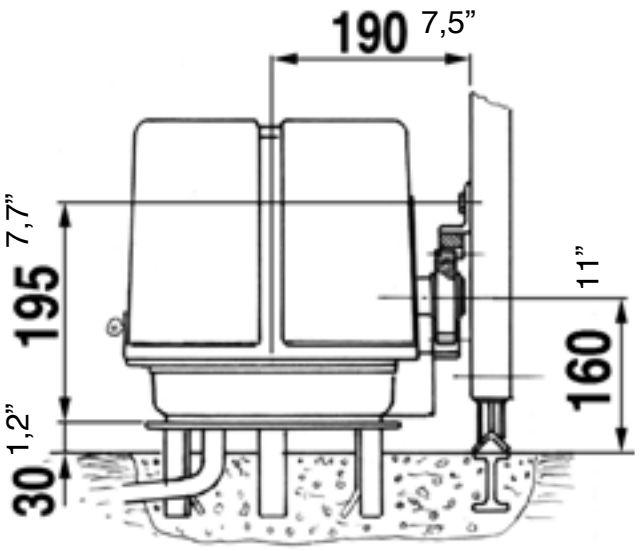
To operated after the power supply to the motor has been interrupted.
In order to work manually on the gate, you just need to insert the fitting key and rotate It 3 times counterclockwise (Fig. 4).
In order to carry out the manual operation of the gate leaf the followings must be checked:

- That the gate is endowed with appropriate handles;
- That these appropriate handles are placed so to avoid safety risks for the operator;
- That the physical effort necessary to move the gate leaf should not be higher than 225 N, for doors/gates for private dwellings, and, 390N for doors/gates for commercial and industrial sites (values indicated in 5.3.5 of the EN 12453 norm).


4

Motor and rack fitting

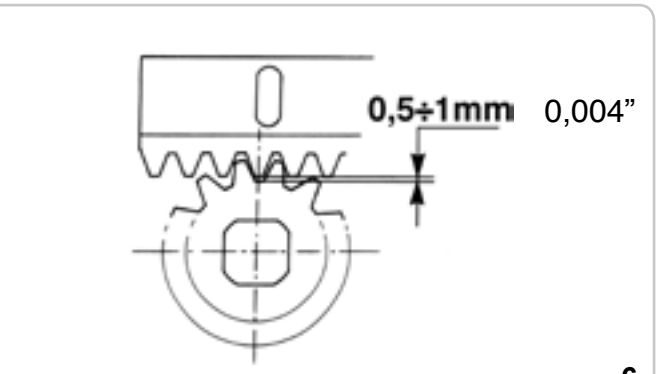
The rack shall be fitted over the motor support, at a certain distance from It.
Its height can be adjusted thanks to the holes In the rack.
The height adjusting is necessary to prevent the gate leaning on the driving gear (**5 and 6**).
To fix the rack on the gate, drill some Ø 5 mm holes and thread them using an M6 screw tap.
The driving gear needs some 1 mm clearance from the rack.



Measurements in mm/inch **5**

Limit switch fitting

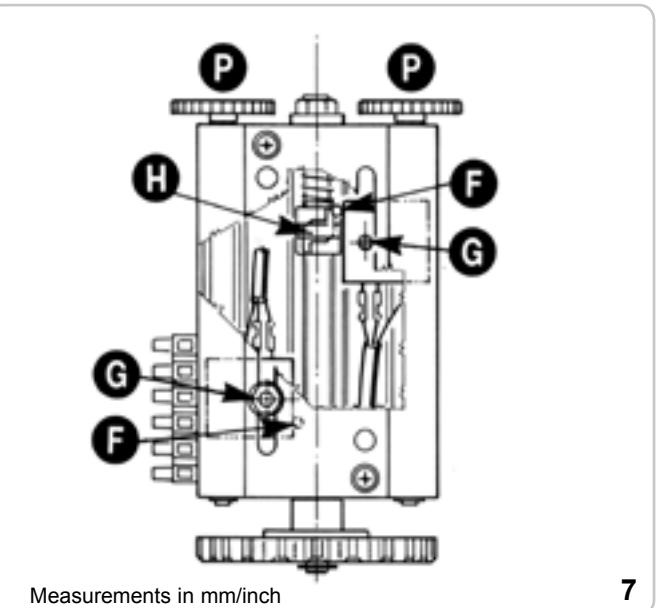
In order to determine the gate travel length, place two cams at the ends of the rack (**7**).
Move the cams on the rack teeth to adjust their opening and closing travel.
To fix the cams to the rack, tighten the screws issued.
N.B: In addition to the electric stop cams mentioned above, you must also install strong mechanical stops preventing the gate from sliding out from the top guides.



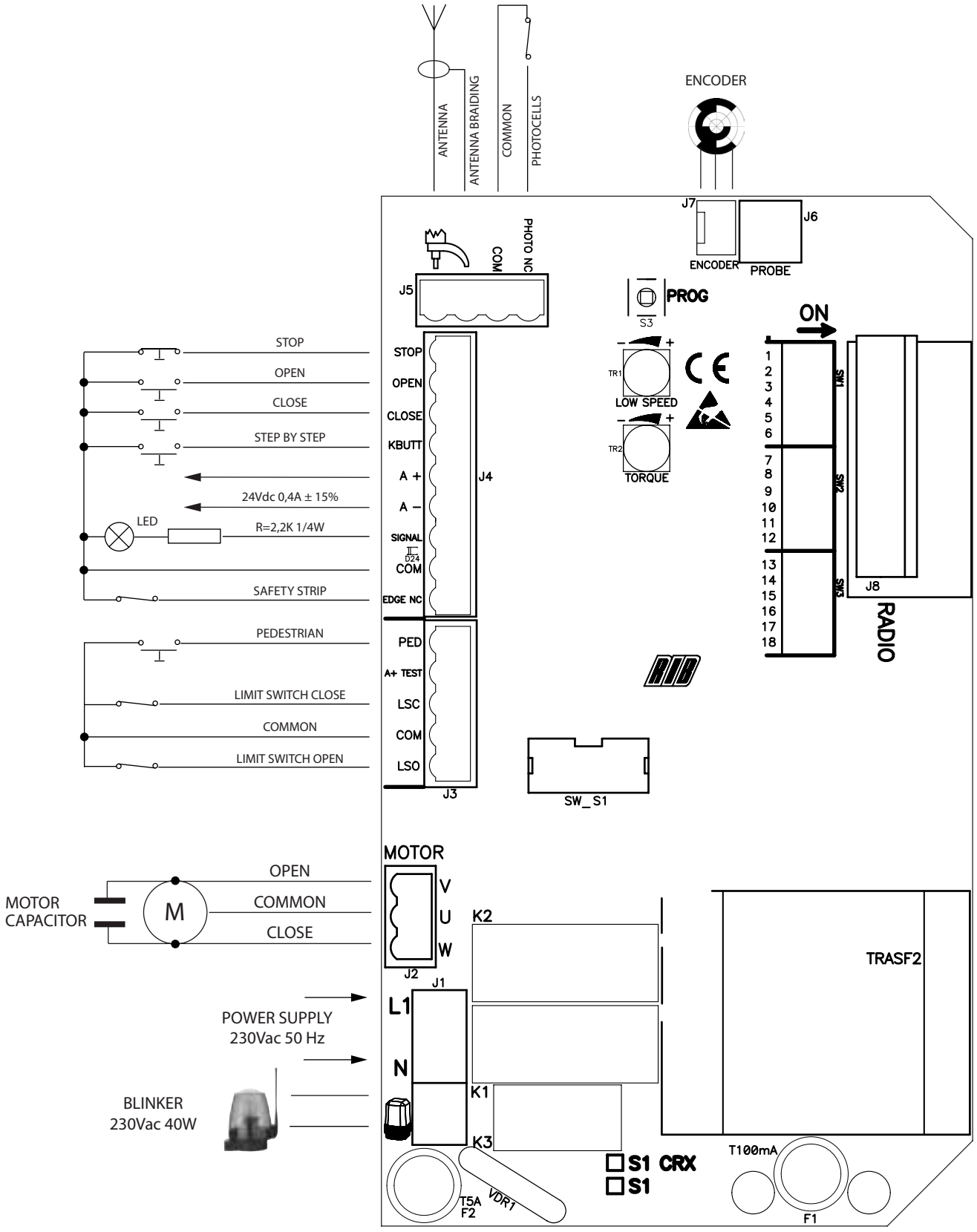
Measurements in mm/inch **6**

Maintenance

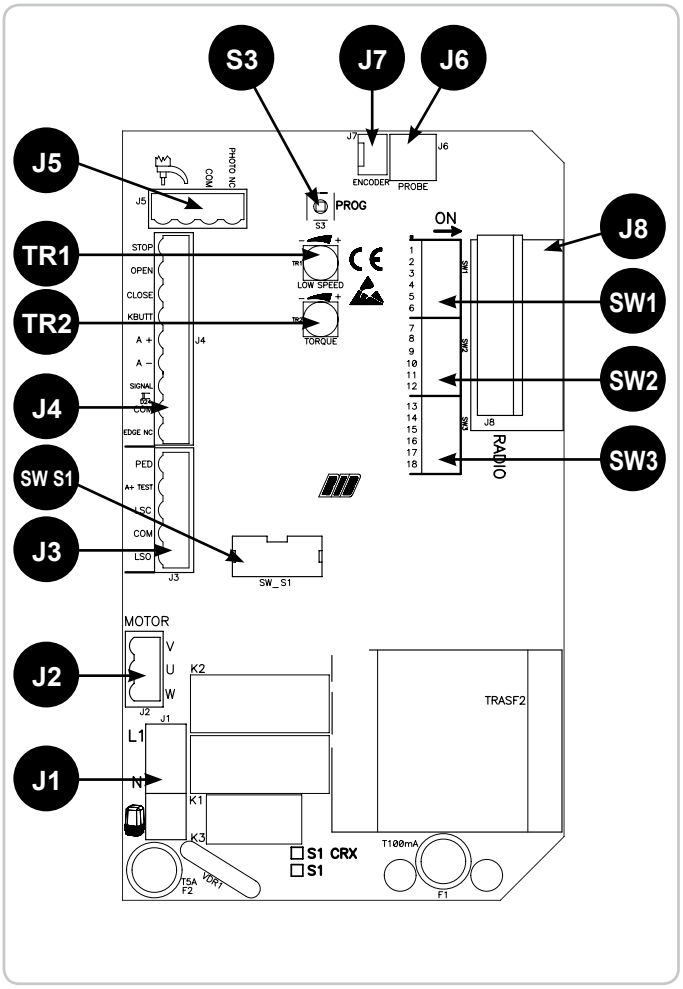
To be carried out exclusively by skilled persons after the power supply to the motor has been interrupted.
Periodically, when the gate is standstill, clean and keep the guide free from stones and dirt.



Measurements in mm/inch **7**


ANTENNA
ANTENNA BRAIDING
COMMON
PHOTOCELLS
ENCODER
J7
J6
ENCODER
PROBE
J5
COM
PHOTO NC
PROG
S3
ON
TR1
LOW SPEED
TR2
TORQUE
SW1
SW2
SW3
J8
RADIO
STOP
OPEN
CLOSE
STEP BY STEP
24Vdc 0,4A ± 15%
LED
R=2,2K 1/4W
SAFETY STRIP
PEDESTRIAN
LIMIT SWITCH CLOSE
COMMON
LIMIT SWITCH OPEN
STOP
OPEN
CLOSE
KBUTT
A +
A –
SIGNAL
0/24
COM
EDGE NC
J4
PED
A+ TEST
LSC
COM
LSO
J3
SW_S1
MOTOR
OPEN
COMMON
CLOSE
MOTOR CAPACITOR
M
V
U
W
J2
K2
TRASF2
J1
L1
N
K1
K3
POWER SUPPLY
230Vac 50 Hz
BLINKER
230Vac 40W
S1 CRX
S1
T100mA
T5A
F2
VDR1
F1

POINT A - ELECTRIC CONNECTIONS



	L1 - N	230Vac 50/60Hz POWER SUPPLY (120Vac/60Hz UPON REQUEST)
		BLINKER (40 W MAX.)
	U	MOTOR COMMON CONNECTION
	V-W	MOTOR PHASES AND CAPACITOR CONNECTIONS
	PED.	PEDESTRIAN OPENING CONTACT (NO)
	A+ TEST	+24Vdc SAFETY STRIP SELF-TEST POWER SUPPLY
	LSC	CLOSE LIMIT SWITCH THAT CUTS OFF THE MOTOR IN CLOSING
	COM	LIMIT SWITCH COMMON CONTACT
	LSO	OPEN LIMIT SWITCH THAT CUTS OFF THE MOTOR IN OPENING
	STOP	STOP CONTACT (NC)
	OPEN	OPENING CONTACT (NC)
	CLOSE	CLOSING CONTACT (NC)
	K. BUTT.	SINGLE PULSE CONTACT (NO)
	A+	ACCESSORIES POWER SUPPLY +24Vdc
	A-	ACCESSORIES POWER SUPPLY -24Vdc
	SIGNAL	GATE OPEN INDICATOR 24Vdc
	COM	COMMON CONTACT (common line for all the command and safety inputs)
	EDGE NC	SAFETY STRIP CONTACT (NC)
	AERIAL	RADIO ANTENNA
	COM	COMMON CONTACT (common line for all the command and safety inputs)
	PHOTO NC	PHOTOCELLS CONTACT (NC)
	PROBE	TEMPERATURE SENSOR CABLE CONNECTION PROBE (Code ACG4665 optional)
	ENCODER	ENCODER CONNECTION (K PLUS operators)
	RADIO	CONNECTOR FOR EXTERNAL RADIO RECEIVER 24Vdc
	PROG.	PROGRAMMING BUTTON
	LOW SPEED	ELECTRONIC REGULATOR FOR LOW SPEED ON APPROACH
	TORQUE	ELECTRONIC TORQUE REGULATOR
	SW S1	DIP-SWITCHES
		NC: NORMALLY CLOSED CONTACT NO: NORMALLY OPEN CONTACT

POINT B - SETTINGS

DIP 1 **MOTOR ROTATION DIRECTION CHECK (See Point C)**
DIP 2 **PROGRAMMING (See Point D)**
DIP 2-1 **PROGRAMMING OF PEDESTRIAN OPENING (See Point E)**
DIP 3 ON - Automatic Closing ENABLED
OFF - Automatic Closing DISABLED
DIP 4 ON - Radio receiver STEP BY STEP
OFF - Radio receiver AUTOMATIC
DIP 5 ON - STEP BY STEP
Single pulse contact (K BUTT)
Pedestrian button (PED BUTT)
OFF - AUTOMATIC
Single pulse contact (K BUTT)
Pedestrian button (PED BUTT)
DIP 6 ON - Photocells active only in closing
OFF - Photocells always active
DIP 7 ON - Encoder enabled for PLUS operator
OFF - Encoder disabled
DIP 8 ON - Blinker pre-flashing
OFF - Blinker normal flashing
DIP 9 ON - Low speed in approaching DISABLED
OFF - Low speed in approaching ENABLED
DIP 10 ON - Electronic brake ENABLED (HARD brake, only for FAST operators)
OFF - Electronic brake DISABLED (SOFT brake, only for FAST operators)
DIP 11 ON - Gradual start ENABLED
OFF - Gradual start DISABLED
DIP 12 ON - Safety strip self test ENABLED
OFF - Safety strip self test DISABLED
DIP 13 ON - Motor operation control by external power relays (only for S1/R2 and S1/R4 control boards). Encoder, low speed in approaching, gradual start and electronic brake features, low speed and torque regulator will be automatically disabled regardless their dip-switches and trimmers position.
OFF - Standard motor operation control without power relays
DIP 14 - OFF
DIP 15 - OFF
DIP 16 - ON
DIP 17 ON - close command after the transit through the photocell ENABLED
OFF - close command after the transit through the photocell DISABLED
DIP 18 **ON - Working with motors 120V 60Hz**
OFF - Working with motors 230V 50-60Hz

LED WARNINGS
DL1 - programming activated (red)
DL2 - stop contact NC (red)
DL3 - open limit-switch contact (red)
DL4 - close limit-switch contact (red)
DL5 - photocell contact (NC) (red)
DL6 - gate opening (green)
DL7 - gate closing (red)
DL8 - safety strip contact (NC) (red)
DL9 - Encoder output state

FUSES
F1 T100mA Fuse for accessories protection
F2 T5A Fuse for motor windings protection

RELAYS AND MOTOR CONTROL
K1 => Opening command
K2 => Closing command
K3 => Flashing light command
Q5 => TRIAC - Motor command in opening and closing

TORQUE =>TR2 - Electronic regulator for motor torque
Power can be controlled by rotating the TORQUE trimmer – this changes the output voltage on motor ends (more power is delivered to the motor by rotating the trimmer clockwise).
Actually, the motor is always turned on at full power regardless the trimmer position (to guarantee the starting in all the condition) and, then, after 3seconds, the torque control is activated.

LOW SPEED =>TR1 - Electronic regulator for low speed on approach
If DIP9 is turned OFF, the low speed on approach can be controlled by rotating the LOW SPEED trimmer. The low speed is activated when the gate is 0.50-0.60 meters away from the complete closed or open position.

ELECTRONIC BRAKE
If DIP10 is turned ON, a HARD electronic brake will be active.
If DIP10 is turned OFF, a SOFT electronic brake will be active.

GRADUAL START
If DIP11 is turned ON, a gradual movement will be enabled for 1second upon each starting.
In case of an obstacle is detected by any safety inputs (photocell, safety strip or encoder), the gradual start is bypassed for the time being to guarantee a more prompt and safe reaction.

POINT C - MOTOR ROTATION DIRECTION CHECK

This operation is meant to help the installer during the installation and for further future controls.
1 - Unlock the operator with the Manual Release, slide the leaf open about halfway and lock the operator again.
2 - Turn **DIP1 to ON** position, LED DL1 starts blinking
3 - Press and hold the **PROG.Button**, the gate will open or close. Release the button and the gate will stop. Press and hold again, the gate will move in the opposite direction.
The S1 control board has two movement leds
- DL6 the GREEN led for OPENING
- DL7 the RED led for CLOSING
When you press and hold the PROG.Button, if the gate opens with the green led on then you may proceed to step 4.
If the gate moves in the wrong direction compared with the movement leds:
- turn OFF the main AC power
- reverse the V and W motor cables position (the blue motor cable must be always in the U position)
- reverse the limit switch wires marked LSO and LSC
- turn ON the main AC power and check again the motor direction
4 - After 2 seconds motor starting and for the next 6 seconds motor working, **the torque control** is automatically activated. Set the motor torque by the TORQUE Trimmer which varies the output voltage to the head of the motor (turn clockwise to increase torque).
5 - After other 6 seconds motor working, the **low speed control** is automatically activated (DIP9 OFF). Set the motor low speed by the LOW SPEED Trimmer to select the gate leaf low speed in approaching.
6 - Press and hold the PROG.Button to close completely the gate. Turn DIP1 to OFF, the RED led DL1 will stop blinking.

During Point C procedure, safety devices (photocells and safety strip), stop button and encoder input are not active.
(#) In Point D and Point E procedures, all of them will be active, so they must be properly installed and connected to the control board. Any changing of the safety devices input state, will stop the Point D and Point E procedure that must be repeated from the beginning.

POINT D - PROGRAMMING (#)

1 - The gate must be fully closed.
2 - Turn **DIP2 to ON** position, LED DL1 starts blinking
3 - **Press PROG.Button**, motor opens.
4 - Once reached the open position, the open limit switch will cut out motor and the gate travelling will be stored. The gap of time between now (stop of motor) and the next pressing of the PROG.Button (see step 5 below) will be then stored as waiting time for Automatic Closing feature.
5 - **Press PROG.Button**, gate closes and the Automatic Closing time is stored (see DIP3 function to enable or disable the Automatic Closing feature).
6 - The LED DL1 will turn OFF, signalling exit from the Point D procedure.
Closing of the gate will be carried out at normal speed and only on approaching total closing at low speed (depending on the adjustment of LOW SPEED trimmer).
7 - When the gate leaf reaches the close limit switch plate, the motor stops.
8 - **Turn DIP2 to OFF** position.
IN CASE OF PLUS OPERATORS EQUIPPED WITH ENCODER, THE DIP7 MUST BE TURNED ON DURING THE PROGRAMMING PROCEDURES.

POINT E - PROGRAMMING OF PEDESTRIAN OPENING (#)

1 - The gate must be fully closed.
2 - Turn **DIP2 to ON** position, the LED DL1 starts blinking quickly
3 - Immediately, turn also **DIP1 to ON** position, the LED DL1 starts blinking slowly

4 - Press the pedestrian pushbutton **PED.Button**, the gate opens
5 - When the gate leaf is opened enough for the pedestrian crossing, press the pedestrian pushbutton **PED.Button** to stop the travel (thus defining the opening stroke of the motor). The gap of time between now (stop of the motor) and the next pressing of the PROG.Button (see step 6 below) will be stored as waiting time for Pedestrian Automatic Closing feature.
6 - **Press the pedestrian pushbutton PED.Button,** gate closes and the Pedestrian Automatic Closing time is stored (see DIP3 function to enable or disable the Automatic Closing feature).
7 - Turn **DIP1 to OFF** position
8 - Turn **DIP2 to OFF** position

FUNCTIONING OF CONTROL ACCESSORIES

STEP BY STEP or AUTOMATIC commands (K BUTT, PED.Button)

DIP5 - ON The K BUTT and PED.Button perform the step by step cyclic command open-stop-close-open-stop-etc.

DIP5 - OFF The K BUTT and PED.Button perform the automatic command:
- the open command, if pressed with the gate completely closed
- the close command, if pressed with the gate completely opened
- no effect, if pressed during the gate opening
- the gate re-open, if pressed while the gate is closing

The K BUTT opens the gate completely, whereas the PED.Button opens the gate partially as described in Point E.

STEP BY STEP or AUTOMATIC commands (radio command)

DIP4 - ON The RADIO COMMAND perform the step by step cyclic command open-stop-close-open-stop-etc.

DIP4 - OFF The RADIO COMMAND perform the automatic command:
- the open command, if pressed with the gate completely closed
- the close command, if pressed with the gate completely opened
- no effect, if pressed during the gate opening
- the gate re-open, if pressed while the gate is closing

CLOCK FUNCTION (OPEN input)

ATTENTION: TO AVOID AN AUTOMATIC OPENING COMMAND WITHOUT HAVING THE PROTECTION OF THE SAFETY DEVICES, THIS FUNCTION IS NOT AVAILABLE WITH THIS FIRMWARE VERSION. TO USE THE CLOCK FEATURE MENTIONED HERE BELOW, IT IS NECESSARY TO REQUEST A S1 CONTROL PANEL WITH FIRMWARE REVISION 08 (REV. 03).

The Clock Function permits to keep the gate opened even if, for example, the Automatic Closing is enabled (DIP3 ON) or somebody commands the gate closing. It is useful during rush hours, when traffic is heavy and the flow is slow (e.g. entrance/exit of employees, emergencies in residential areas or car parks and, temporarily, for removal vans) and it's necessary to keep the gate opened. It can be done by connecting a switch and/or a daily/weekly clock either in parallel to the OPEN button or instead of the OPEN button. When the control board receives this command, the gate will open and by keeping this contact closed for all the time of the gate opening, the Clock Function is automatically activated. In fact, once reached the open position, the gate will remain opened and all of the control board functions are blocked. Only when OPEN contact is released, the control board functions are re-activated and the gate will close immediately.

PEDESTRIAN command (PED.Button - COM)

This command is useful to open the gate partially, just enough, for example, to permit a pedestrian crossing, see Point E procedure. From the Pedestrian opening position the Automatic Closing can be enabled or disabled with DIP3. From the Pedestrian opening position, the gate can be completely opened by the OPEN or by the K BUTT button or by the RADIO button.

AUTOMATIC CLOSING (from the COMPLETE open position)

The Automatic Closing from the complete open position can be enabled turning ON the DIP3.The maximum gap of time that can be programmed is 5 minutes (see Point D).

AUTOMATIC CLOSING (from the PEDESTRIAN open position)

The Automatic Closing from the pedestrian open position can be enabled turning ON the DIP3. The maximum gap of time that can be programmed is 5 minutes (see Point E).

FUNCTIONING OF SAFETY ACCESSORIES

PHOTOCELL (PHOT - COM)

In case the switch DIP6 is in the OFF position, the photocells are active both in gate opening and in gate closing. In this configuration, if an obstacle cuts the photocell beam:
- while the gate is closing, the gate will open
- while the gate is opening, the gate will stop and will restart opening when the obstacle is removed
- while the gate is still, it will not move neither in opening nor in closing

In case of the switch DIP6 is in the ON position, the photocells are active only in gate closing.

In this configuration, if an obstacle cuts the photocell beam:
- while the gate is closing, the gate will open
- while the gate is opening, the gate will continue open
- while the gate is still, it will open if a open command is request, it will remain still if a close command is request.

The photocell input (PHOT - COM) is a NORMALLY CLOSED contact.
In case there are more couple of photocells, the contacts from all the photocell receivers could be connected in series.
In case the photocells are not installed, this contact must be short circuited with a wire jump (from PHOT to COM) to permit the gate to operate.

AUTOMATIC CLOSING after the transit through the photocell (DIP17 ON)

This option could be useful to close automatically the gate when the vehicle left and disengaged the photocell beam. If the DIP17 is turned ON, this function is activated and the PHOTO input will have two purposes:
- detect the obstacle and prevent the gate movement in according with the DIP6 position
- close the gate as soon as the vehicle leaves the photocell beam

If DIP17 ON and DIP6 OFF

If the gate is opening and a vehicle crosses the photo beam, the gate will stop. When the vehicle leaves, the gate will close automatically after 1second pause.

If DIP17 ON and DIP6 ON

If the gate is opening and a vehicle crosses the photo beam, the gate will continue to open. When the vehicle leaves, the gate will stop and then closes automatically after 1second pause.

If the complete gate open position is reached before the vehicle leaving, the DIP17 will be ignored and the automatic closing will be managed in according to the DIP3 position.

PAY ATTENTION: it is highly recommended to check photocells operation at least every 6 months.

SAFETY STRIP (EDGE - COM)

If an obstacle presses the safety strip:
- while the gate is still, it will not move neither in opening nor in closing
- while the gate is closing, the gate will open
- while the gate is opening, the gate will close

In case the safety strip is held pressed a further quick reversion, after 2seconds, is performed. The gate interrupts any movement and this **alarm state** will be signalled by the Blinker for 1 minute. The normal gate operations can be restored by pressing any push button or radio commands.

If after the first safety strip obstacle detection, the safety strip is released and then engaged again before the end of the gate travelling, the gate interrupts any movement and this **alarm state** will be signalled by the Blinker for 1 minute. The normal gate operations can be restored by pressing any push button or radio commands.
The safety strip input (EDGE - COM) is a NORMALLY CLOSED contact.
In case there are more than one safety strip, all their contacts could be connected in series.

In case the safety strip is not installed, this contact must be short circuited with a wire jump (from EDGE to COM) to permit the gate to operate.

PAY ATTENTION: it is highly recommended to check safety-strips operation at least every 6 months.

TESTING THE SAFETY STRIP equipment (DIP12 ON)

The DIP12 ON enables the Test of safety strip equipment. The Test is performed every time the gate completes a full opening. It is suitable only if the safety strip device is equipped with a dedicated power supply input.
In fact, the safety strip equipment power supply input has to be connected to the A+TEST and A- outputs (DIP12 ON). Automatically, every time the gate completes a full opening, just before closing, the control board switches OFF the A+TEST and A- power supply output for a very short time. While the safety strip power supply is switched OFF, if everything is working fine the safety strip contact (EDGE - COM) must open. In case the test fails, no other gate manoeuvre will be allowed and the alarm state will be signalled by the Blinker that will remain on.
NOT ALL THE SAFETY STRIPS CAN BE TESTED, THUS THE SWITCH DIP12 MUST BE LEFT OFF.

STOP BUTTON (COM-STOP)
During all the gate movement, the STOP button will stop the motor.
If it is pressed when the gate is still and completely open (or partially open in the pedestrian position), automatic closing will be temporarily disabled even if DIP3 is turned ON. Therefore, a new command will be needed to close the gate.

FUNCTIONING IN DEAD MAN MODE WHEN THE SAFETY DEVICES ARE FAILING
If the safety edge fails or remains engaged for more than 5 seconds, or if photocell fails or remain engaded for more than 60 seconds, the OPEN, CLOSE, K BUTTON and PEDESTRIAN commands will work only in dead man mode.
The signal that this mode has been activated is given by the blinking of the programming led.
With the blinking of the programming led, the opening and closing operation are allowed only with the command button pressed and held. The radio commands and that of automatic closing, will be excluded, since their use in this mode, is not allowed by the norms.
Once the failing safety device is repaired, in automatic after 1 second, all standard commands that were selected, such as step by step, automatic mode, radio commands and automatic closing start functioning again.
Note 1: during this functioning in dead man mode, in case of damage to the safety strips (or photocells) the photocells (or safety strips) still work by interrupting the operation in progress.
Note 2: the stop command is not to be considered a safety command that can be bypassed in this mode. Therefore, when pressed or damaged, it will not allow any movement of the gate.
The dead-man operation is only an emergency operation which must be activated for a very short period and with the complete installation at sight so to have a secure and safe control of the system. As soon as possible however, the failing safety devices must be repaired and activated.

FLASHING LIGHT
Connect the flashing light to J1 flashing light outputs, use flashing lights ACG7059 and bulbs of 40W maximum.
NOTE: This electronic K board can only supply power to FLASHING LIGHTS with inbuilt flashing circuit.

PRE-FLASHING function
The DIP8 in the ON position enables the pre-flashing, the FLASHING LIGHT starts working 3 seconds before every movement of the gate.
The DIP8 in the OFF position disables any pre-flashing, the FLASHING LIGHT and the motor will star at the same time.

OPEN GATE INDICATOR (SIGNAL-COM)
It indicates the gate status: open, partially open or not completely closed.
It switches off only when the gate is completely closed.
During programming, this indicator is active.
NOTE: if button panels or bulbs are in excess, the electronic board logic will be impaired and operations might stop.

PROBE
It's a cable ended with a sensor to detect the motor temperature and, if necessary, to active automatically the motor warming (code ACG4665).

TECHNICAL SPECIFICATIONS

- Humidity	< 95% without condensation
- Power voltage	230V~ ±10% (120V/60Hz upon request)
- Frequency	50/60Hz
- Maximum board absorption	30mA
- Interruptions in electricity supply	100ms
- Maximum load of open gate output	3 W (equal to 1 3W bulb or to 5 LEDs connected in series through a resistor of from 2.2 kΩ)
- Blinking unit maximum output load	40W with resistive load
- Current available for photocells and accessories	400mA 24Vdc
- Current available on radio connector	200mA 24Vdc

- ALL THE PUSH BUTTONS, INPUTS AND COMMANDS CONNECTED TO THE CONTROL BOARD MUST BE CLEAN CONTACT.

TROUBLE SHOOTING

After having carried out all connections, by carefully following the layout and having positioned the gate in intermediate position, check the correct ignition of LEDS DL2, DL3, DL4, DL5, DL8.
In case of no ignition of the LEDS, always with gate in intermediate position, check the following and replace any faulty components.
DL2 switched off Faulty Stop button
DL3 switched off Faulty opening limit switch
DL4 switched off Faulty closing limit switch
DL5 switched off Faulty photocells
DL8 switched off Faulty safety edge (In case the edge is not connected, carry out jumper between COM and EDGE)
During functioning with personnel present, with DIP 1 at ON, check that during opening the green DL6 LED switches on and that during closing the red DL7 LED switches on. If not, invert clamps V and W on the motor terminal board.

FAULT	SOLUTION
After having carried out the various connections and having supplied voltage, all the LEDS are switched off.	Check the integrity of fuses F1 and F2. In case of interrupted fuse use only of adequate value F2 = 5A F1 = 100mA.
The motor opens and closes, but it has no strength and moves slowly.	Check trimmers TORQUE and LOW-SPEED adjustment.
The gate opens but does not close after the time set.	Ensure to have set DIP 3 at ON. Button K BUTTON always inserted in automatic functioning mode (DIP 6 OFF). Replace button or switch of the selector switch. Failed edge self-test => check the connections between electronic board and edge feeder. **Attention:** if not using a feeder for edges, DIP 12 must be at OFF position.
The gate does not open or close by activating the various OPEN, CLOSE, K and RADIO buttons.	Faulty safety edge contact. Faulty photocells contact with DIP 4 OFF. Fix or replace the relative contact.
Motor with encoder (DIP n° 7 at On) enabled. The gate opens and closes only for brief intervals.	Check encoder connection and eventually replace.
By activating the K or CLOSE button the gate does not move.	Impulse K or CLOSE always inserted. Check and replace any buttons or micro-switches of the selector switch.
The slowing phase is not performed.	Ensure that DIP 9 is at position OFF (slowing enabled). Learn the times through procedure with DIP 2. Check trimmer LOW SPEED adjustment.

RADIO TRANSMITTER SUN

SUN 2CH cod. ACG6052 SUN 4CH cod. ACG6054
SUN CLONE 2CH cod. ACG6056 SUN CLONE 4CH cod. ACG6058

CODE LEARNIG SYSTEM RADIORECEIVERS

RX433/A super eterodyne and coupling code ACG5055
RX433/A super eterodyne and terminal board code ACG5056
RX433/A 2CH super eterodyne, 2 channel and coupling code ACG5051
RX433/A 2CH super eterodyne, 2 channel and terminal board code ACG5052

SPARK

In order to make the systems mentioned above give the best performances, you need to install an antenna tuned on the frequency of the radio receiver installed.
N.B. Pay attention to not let the central wire of the cable to came Into contact with the external copper sheath, since this would prevent the antenna from working.
Install the antenna vertically and in such a way the remote control can reach it.
SPARK BLINKER WITH IN-BUILT INTERMITTENT CARD code ACG7059
LATERAL SUPPORT code ACG7042
SPARK ANTENNA 433 code ACG5452

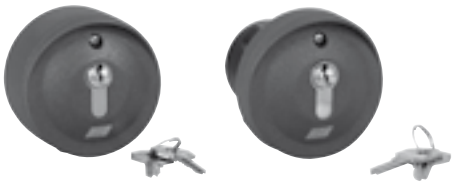
PROBE

The probe detects the motor temperature to operate the heating system under low temperature conditions, up to -30°C (connect to connector J6). code ACG4665

FIT SYNCRO

FIT SYNCRO PHOTOCELLS for the wall-installation code ACG8026
The range you can set is 10-20 m, 30÷60ft.
You can fit many couples close together thanks to the synchronising circuit.
Add the **SYNCRO TRANSMITTER** code ACG8028
for more than 2 photocells couples (up to 4).
COUPLE OF BUILT-IN BOXES FOR THE FIT SYNCRO code ACG8051

BLOCK



KEY SELECTOR FOR WALL-INSTALLATION code ACG1053
KEY SELECTOR TO BUILD-IN code ACG1048

PLATE TO BE CEMENTED

code ACG8103

RACK OF MODEL 4

with CATAPHORESIS treatment, right-angle, in 2 m - 6,56 feet bars
Ideal for gates weighting up to 2200kg / 4,800lbs.
code ACS9050

RED - RADIO EDGE DEVICE

RADIO EDGE DEVICE allows to make a system made with edges fixed to the moving shutter without having to use cable sleeving systems.

It complies with EN13849-1:2007 Standard, if installed with an RIB Electronic Board it is a Class-2 Device.

RADIO TRANSMITTER

for mechanical and electrical strip. code ACG6202

RADIO RECEIVER

with container. Suitable for up to 6 Radio Transmitters ACG6202.
code ACG5501

Wi-Fi DEVICES

MASTER Wi-Fi

RECEIVER CARD TO MANAGE WIRELESS SYSTEM
with connector - 12÷30V ac/dc code ACG6094
with terminal block - 12÷30V ac/dc code ACG6099

NOVA Wi-Fi

PHOTOCELLS WITHOUT WIRES code ACG8037
PAIR OF COLUMS NOVA code ACG8039

TOUCH Wi-Fi

STRIP WITHOUT WIRES code ACG3016

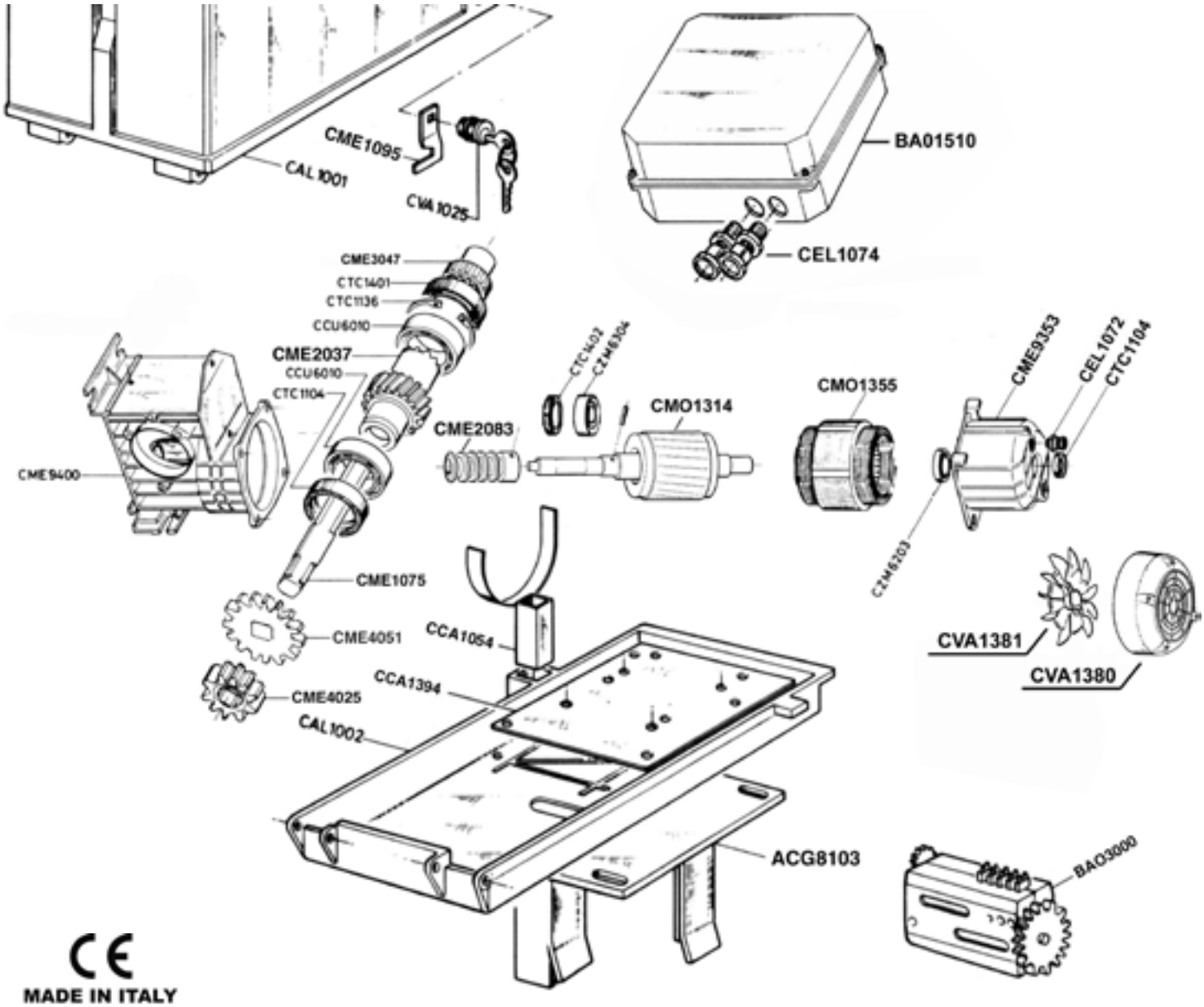
SPARK Wi-Fi

BLINKER WITHOUT WIRES code ACG7064
LATERAL SUPPORT code ACG7042

BLOCK Wi-Fi

KEY SELECTOR WITHOUT WIRES code ACG6098

SUPER 2200 FAST



MADE IN ITALY

Questo prodotto è stato completamente progettato e costruito in Italia · Ce produit a été complètement développé et fabriqué en Italie · This product has been completely developed and built in Italy · Dieses Produkt wurde komplett in Italien entwickelt und hergestellt · Articulo totalmente proyectado y producido en Italia

Codice	Denominazione Particolare	Codice	Denominazione Particolare	Codice	Denominazione Particolare
ACG8103	Piastra da interrare	CEL1468	Fascetta L 200x3,6	CTC1136	Seeger I80
BA01510	Contenitore Medium per scheda	CEL1520	Supp. sella per fascette elem 54	CTC1401	Paraolio 50x80x8
BA03000	Finecorsa completo	CME1075	Albero di traino	CTC1402	Paraolio 30x47x7
BC07096	Scheda S1	CME1095	Gancio per serratura	CVA1025	Cilindretto per serr.
CAL1001	Carter SUPER	CME2037	Corona con mozzi	CVA1380	Copriventola motore
CAL1002	Piastra allum. SUPER	CME2083	Vite senza fine	CVA1381	Ventola motore SUPER2200
CCA1054	Protezione ingranaggio SUPER	CME3047	Giunto d'innesto	CZM6203	Cuscinetto motore 6203ZZ
CCA1225	Supporto elastico quadro elettronico per SUPER2200	CME4025	Ingranaggio cremagliera	CZM6304	Cuscinetto motore 6304ZZ
		CME4051	Ing. Finec. Z=22 con foro quadro		
CCA1394	Piastra di rinforzo	CME9353	Cappellotto		
CCM608B	Cuscinetto motore 608B	CME9400	Carcassina		
CCU6010	Cuscinetto 6010	CMO1355	Statore SUPER 2200 FAST 230V/50		
CEL1072	Pressacavo nichelato 1/4»	CMO1314	Rotore con albero		
CEL1074	Pressacavo PG16	CPL1199	Chiave di sblocco		
CEL1463	Bloccacavo SR6P3-4	CTC1104	Paraolio 50x72x10		

Cod. CVA1883 - 29082011 - Rev. 07

COMPANY WITH QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

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