

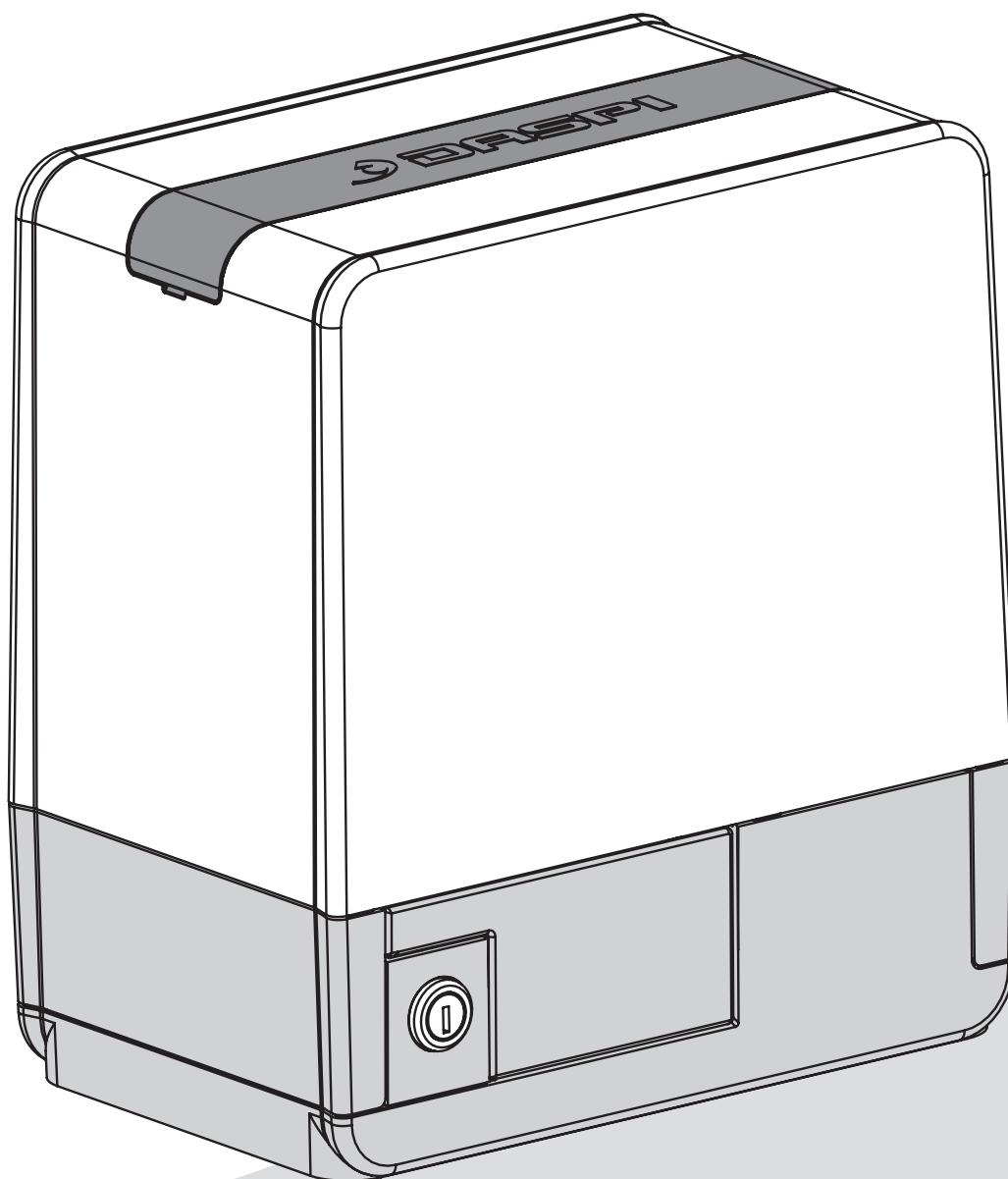
IDEA

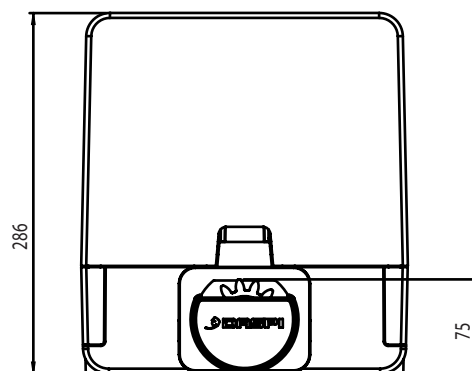
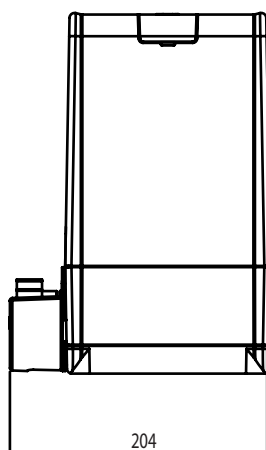
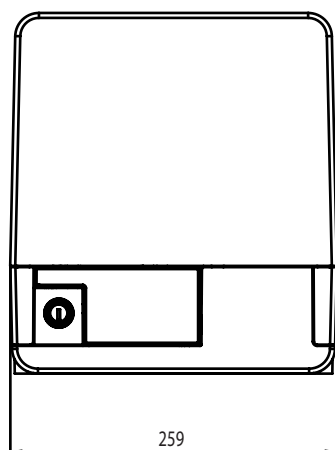
VER. I° • 2010



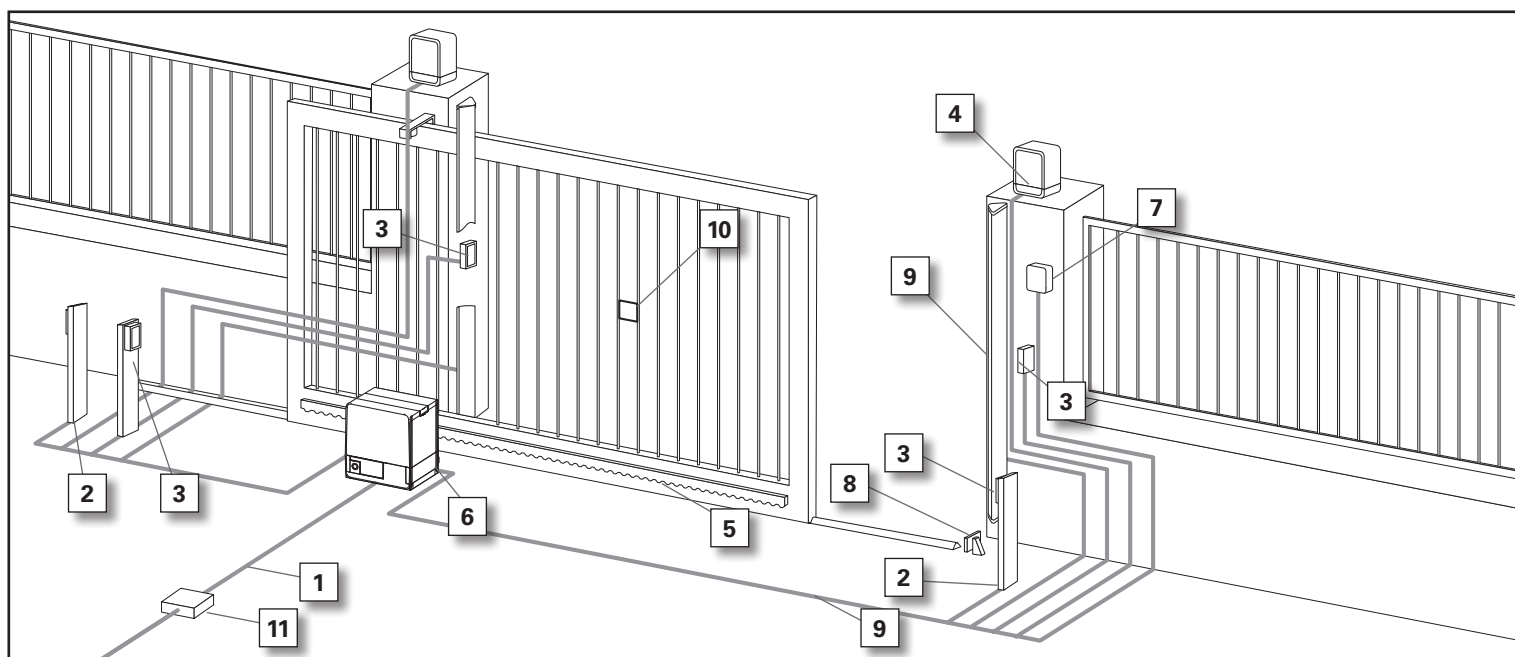
MOTORIDUTTORE PER CANCELLI SCORREVOLI
GEAR MOTOR FOR SLIDING GATES
MOTO-RÉDUCTEUR POUR PORTAILS COULISSANTS
MOTORREDUCTOR PARA PUERTAS CORREDERAS
GETRIEBEMOTOR FÜR SCHIEBETORE

MANUALE D'USO E DI INSTALLAZIONE
INSTRUCTION MANUAL
MANUEL DE INSTRUCTIONS
MANUAL DE INSTRUCCIONES
BETRIEBS- UND MONTAGEANLEITUNG





Tipo Type Tipo Type Typ	PESO MAX CANCELLO MAXIMUM GATE'S WEIGHT POIDS MAXIMUM DU PORTAIL PESO MÁXIMO DE LA PUERTA	ALIMENTAZIONE POWER SUPPLY ALIMENTACIÓN SPANNUNGSVERSORGUNG	POTENZA RATED POWER PUISSANCE FUERZA LEISTUNG	ASSORBIMENTO ABSORBED POWER PUISSANCE ABSORBÉE ABSORCIÓN AUFNAHME	TEMP. DI ESERCIZIO OPERATING TEMPERATURE TEMPÉRATURE D'EMPLOI TEMPERATURA DE FUNCIONAMIENTO BETRIEBSTEMPERATUREN	CONDENSATORE CAPACITOR CONDENSATEUR CONDENSADOR KONDENSATOR UF	CICLI LAVORO CYCLER PER HOUR CYCLES PAR HEURE MANOBRAS POR HORA EINSCHALTDAUER	GIRI USCITA OUT PUT REVOLUTIONS TOURS SORTIE GIROS EN SALIDA	SPINTA TORQUE FORCE	IP	PESO WEIGHT POIDA PESO GEWICHT
IDEA600	600 KG	230 Vac 50 HZ	250 W	1,1 A	-25° +70° C	10	50 %	53 RPM	450 N	54	10 Kg
IDEA60024	600 KG	24 V	60 W	3,0 A	-25° +70° C	-	90 %	53 RPM	300 N	54	10 Kg
IDEA800	800 KG	230 Vac 50 HZ	330 W	1,5 A	-25° +70° C	16	50 %	53 RPM	780 N	54	11 Kg
IDEA80024	800 KG	24 V	80 W	3,3 A	-25° +70° C	-	90 %	53 RPM	350 N	54	11 Kg
IDEA1200	1200 KG	230 Vac 50 HZ	450 W	1,5 A	-25° +70° C	20	50 %	53 RPM	850 N	54	12 Kg



QUADRO D'INSIEME

- 1 IDEA 230 Vac 50 Hz
3 x 1,5
- 2 Colonnina fotocellula
- 3 Fotocellula • 4 x 1
- 4 Lampeggiante con antenna
3 x 1 + rg58
- 5 Cremagliera
- 6 Motoriduttore IDEA
- 7 Selettore a chiave • 3 x 1
- 8 Fermi meccanici
- 9 Costa meccanica • 2 x 1
- 10 Cartello di sicurezza
- 11 Magnetotermico 16 A

ASSEMBLY LINE

- 1 230 V line 50 Hz • 3 x 1,5
- 2 Columns photocells
- 3 Photocells • 4 x 1
- 4 Flashing light + Antenne
3 x 1 + rg58
- 5 Rack
- 6 Gear Motor IDEA
- 7 Key select switch • 3 x 1
- 8 Mechanical catch
- 9 Mechanical face • 2 x 1
- 10 Security sign-board
- 11 Magnetothermal 16A

TABLEAU D'ENSEMBLE

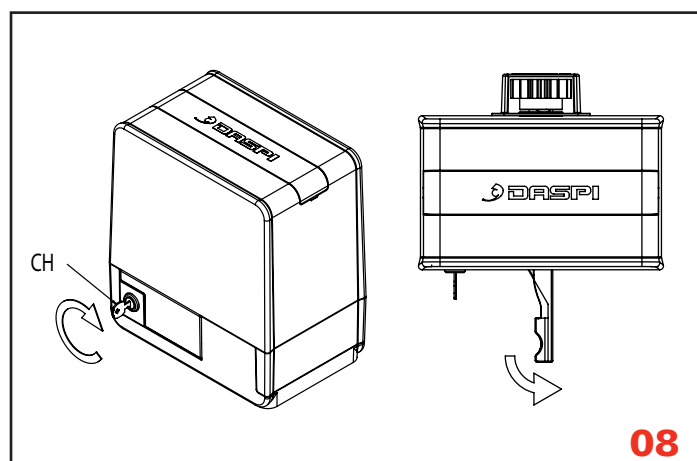
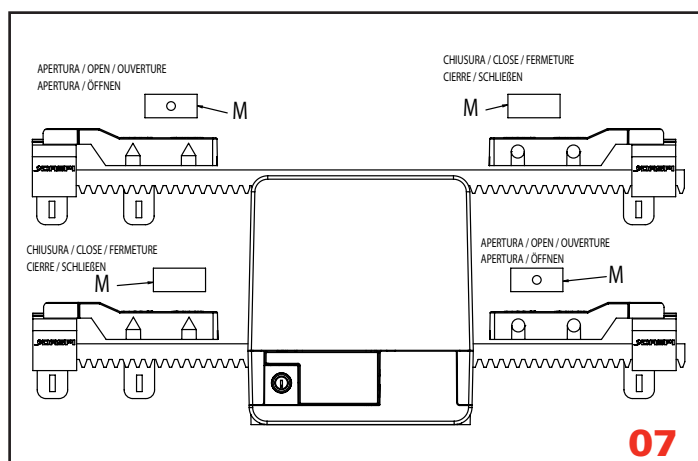
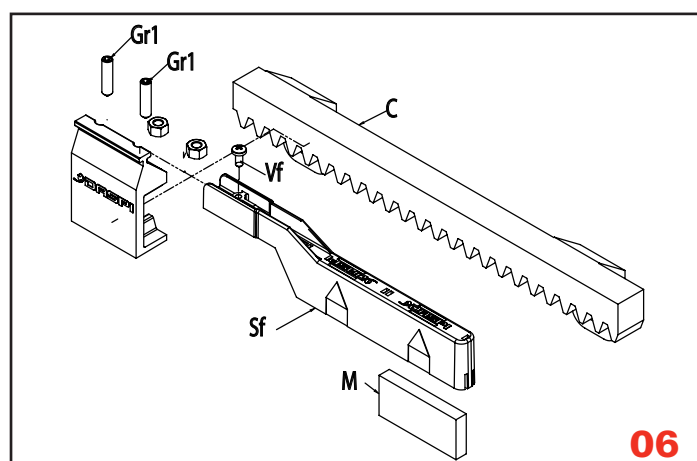
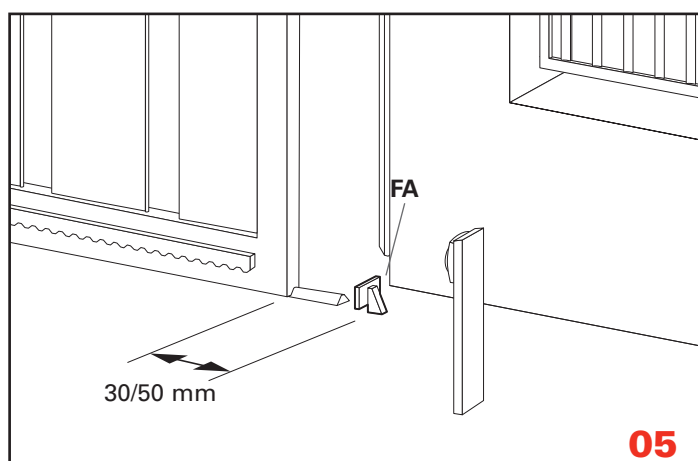
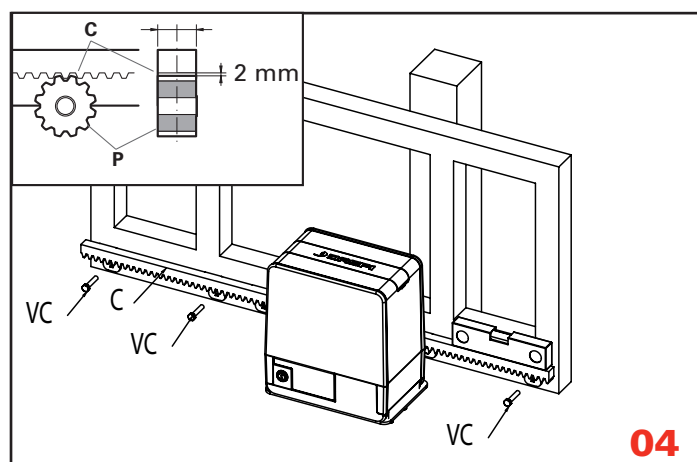
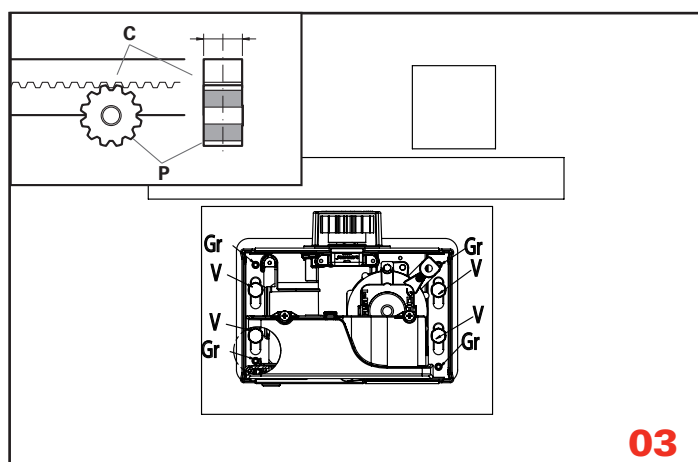
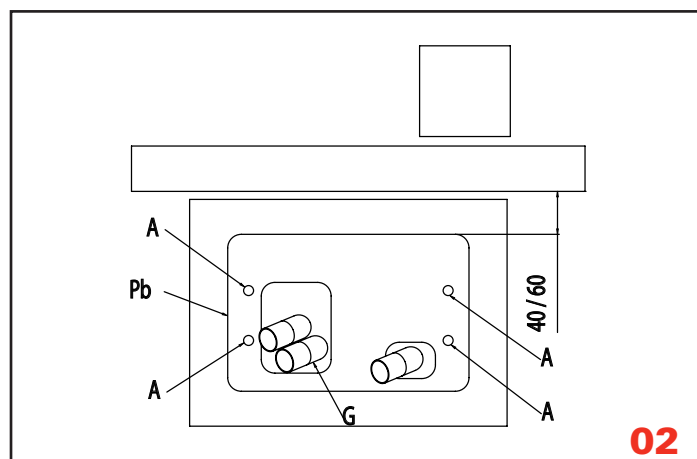
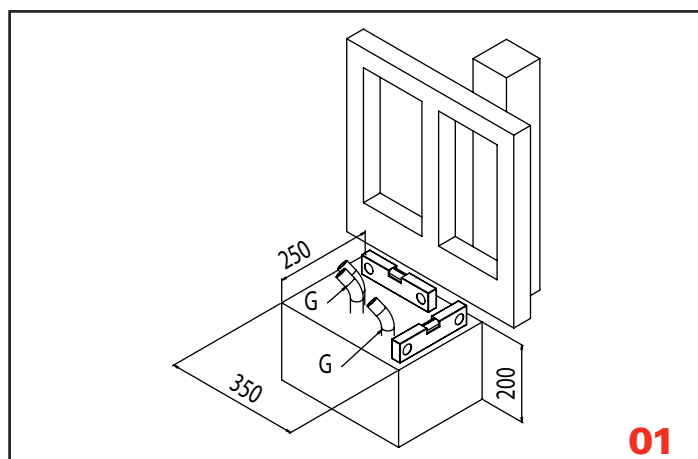
- 1 Ligne à 230 V • 3 x 1,5
- 2 Colonne pour cellule
photo-électrique
- 3 Cellule photo-électrique
4 x 1
- 4 Clignoteur + Antenne
3 x 1 + rg58
- 5 Crémaillère
- 6 Motoréducteur IDEA
- 7 Sélecteur à clé • 3 x 1
- 8 Fijaciones mécano
- 9 Tranche mécanique • 2 x 1
- 10 écriteau de sûreté
- 11 magnetotermique 16 A

ESQUEMA DE CONJUNTO

- 1 IDEA 230 V 50 Hz 3 x 1,5
- 2 Columna para fotocélula
- 3 Fotocélula • 4 x 1
- 4 Luz de advertencia
+ Antena • 3 x 1 + rg58
- 5 Cremallera
- 6 Motorreductor IDEA
- 7 Selector de lave • 3 x 1
- 8 Fijaciones mécano
- 9 Lomo de goma mecánico
2 x 1
- 10 Cartel de seguridad
- 11 Magnetotermico 16 A

ÜBERSICHT

- 1 IDEA 230 V 50 Hz • 3 x 1,5
- 2 Fotozellenhalterung
- 3 Fotozelle • 4 x 1
- 4 Blinkleuchte mit Antenne
3 x 1 + rg58
- 5 Zahnstange
- 6 Getriebemotor IDEA
- 7 Schlüsselschalter • 3 x 1
- 8 Mechanische Endanschläge
- 9 Mechanische Leiste • 2 x 1
- 10 Sicherheitsschild
- 11 Magnetothermischer
Schutzschalter 16 A



GENERAL SAFETY RULES

Our compliments for your excellent choice. Your new electromechanical barrier has been produced according to a high quality and strict reliability, that's why it will assure you long-lasting performance. This booklet will offer you all the pieces of information you may need to install your barrier and to safe guard your safety.

All our products have been made in conformity with the regulations in force. We recommend using original part only, during the installation and the upkeep. However, the caution is unquestionably indispensable and nothing is better than preventing accidents.

IMPORTANT

Any installation or repair, or adjustment of the working machinery by unqualified people is strictly prohibited unless all the necessary precautions: power supply disconnected (included possible batteries). All moving mechanism must be provided with suitable protections.

DASPI is not responsible for any possible damages or injuries to people, object or animals, caused by any use not provided for this booklet and/or any unauthorized modification of the product. Keep scrupulously this booklet enclosing it with technical brochure of installation in a suitable place well-known by all the interested people. You have to operate the elimination of the packing material (cardboard, plastic, polystyrene, etc.) in conformity with the regulations in force, remembering that for a child a plastic envelope could be extremely dangerous. You have to teach the people employed in using the automation

about the control and security systems of the installation. Don't install this product in explosive places.

Upkeep

For any kind of upkeep, you have always to cut off the power supply.

For a correct upkeep of the installation where you have installed the gear motor IDEA follow carefully these instructions:

Clean periodically the photocells.

Checking by qualified people the electronic clutch (see the paragraph "Installation of the electronic central unit").

Lubricate periodically the guide and the wheel of the gate.

In case of malfunction going and seeing qualified people.

DEMOLITION

You have to operate the elimination of the materials in conformity with the regulations in force. All material must be divided by type (copper, aluminium, plastic, electrical central unit). However there are not material considered dangerous for the handler.

DISMANTLING

In order to dismantle or to move away the automation, follow these instructions:

Cut off the power supply and disconnect the electrical installation.

Dismantle the control console and all the other components of the installation.

If you have noticed that some components have been damaged, you have to replace them.



SECURITY
DISTANCE



MECHANISM
IN MOVEMENT



DO NOT INSTALL THE
AUTOMATION IN PLACE FULL
OF EXPLOSIVE MOISTURES



ELECTRIC SHOCK



USE
THE GLOVES



USE GLASSES
FOR WELDING



KEEP THE PROTECTION
CARTER

TYPE OF PRODUCT

The IDEA gearmotor is designed and built to open sliding gates weighing from 600 – 800 kg or 1200 kg depending on the version, which can be verified by checking the product packaging or through the serial number.

DASPI will assume no liability for any unintended or improper use of the IDEA gearmotor.

WARNING: The IDEA gearmotor is not supplied with a mechanical clutch and therefore must be installed in combination with the appropriate DASPI control panel or with a control panel equipped with an electronic clutch.

USE OF THE AUTOMATION

As the automation can be controlled from the distance through a remote control, you must always check the full efficiency of all the safety devices. We recommend inspecting periodically (every 6 Month) by qualified people the adjustment of the electronic clutch. If you need to calibrate the protection consult the paragraph "Adjustment of the electronic clutch" in the instruction booklet of the electronic central unit.

PRELIMINARY CHECKS

- Read carefully the instruction.
- Check that the product has not been damage during the transport.
- Check that the gate structure is strong and that during its movement there aren't friction points
- Check that the electrical installation is in accordance with the characteristic required by the gear motor.
- Check that there is a suitable ground safety system and that the metallic parts of the installation are connected.
- Check that the manual manoeuvre always is easily practicable.
- Remember that the automation makes easy the use of the gate but don't resolve the problems due to a defective installation or to a faulty of upkeep.

LUBRIFICATION

The gear motor IDEA is provided with permanent lubrication

INSTALLATION

Important safety instructions to be followed during installation. Warning: incorrect installation may cause serious damage or injury. Follow all the installation instructions meticulously. Identify the correct point of installation of IDEA inside the property.

This is usually near to the support pillar on which the gate slides. Build a solid base in cement to the size as shown in figure 1, taking into account the sleeves "G" for the passage of the power supply and control cables for the system. Once set, position plate "Pb" on the cement base according to the measurements shown in figure 2, and mark the holes "A" in which the wall-plugs will be fixed. Remove the plate "Pb" and drill the relative holes in the cement into which the wall-plugs (not provided) with M10 screws, will be fitted. Introduce the wall-plugs and re-position the "Pb" plate.

Position the IDEA gearmotor on the plate and fix together with the wall-plug screws "V" using the relative washers (figure 3). If the rack is already installed, ensure that the pinion "P" engages in the rack for its entire width. Perform the emergency or manual manoeuvre (see paragraph 'Emergency or manual manoeuvre') and place the gate in its maximum opening position.

Place one of the extremities of the rack "C" on the pinion "P", and while keeping it in a horizontal position, start to fix it by soldering or by using the appropriate "Vc" screws (figure 4). Gradually move the gate forward as the rack is being fixed and check that it does not force on the pinion or move too far away from it. If the longitudinal axis of the gate is not straight, shims must be placed between the gate and the rack to guarantee that the pinion and the rack are constantly centered. Once the rack "C" has been fixed definitely, adjust the play-gap by approximately 2 mm between the pinion and the rack by using the adjustment dowels "Gr" (figure 3). Once the procedure is completed, use once more the manual manoeuvre to open and close the gate to ensure a correct alignment (there must be no points of friction).

WARNING

The life of the pinion and the rack decisively depend on a perfect alignment of the two.

The gate must be equipped with mechanical stoppers "Fa" (figure 5) in both the opening and closing positions in order to prevent the gate from derailing. Mechanical stoppers "Fa" must guarantee an anti-crushing area between the mobile and fixed parts of the gate.

Refer to the current regulations for the dimensions of such areas. Manually place the gate in the open position, and according to the gate weight, leave a space of 30-50 mm between the gate and the mechanical stopper "Fa" (figure 5). Fit the limit switch brackets as shown in figure 6. Introduce the magnets "M" into the brackets "Sf" positioning them via the small sphere impressed on the magnets as in figure 7.

Mount the assembled brackets to the rack "C" in the required position and fix with the dowels "Gr1". After switching on the power supply, use the manual manoeuvre to check that when the magnet levels with the gearmotor pinion the led of the engaged limit switch turns off.

To identify the led, refer to the instruction manual of the relative control unit installed.

If the opposite led lights up in relation to the engaged limit switch, check that the magnets have been correctly positioned as in figure 7, or alternatively, invert the limit

switch wires connecting the control unit.

After that, carry out the automatic manoeuvre, and if necessary, carry out a micrometrical adjustment of the "Vf" screw by unscrewing it and by moving the "Sf" bracket. Connect the electrical wires as explained in the manual of the electronic control unit and install the mandatory safety devices.

Instruct all personnel operating the device how to use the controls, the safety devices, the emergency manoeuvre and about the dangers involved in the use of the automation system.

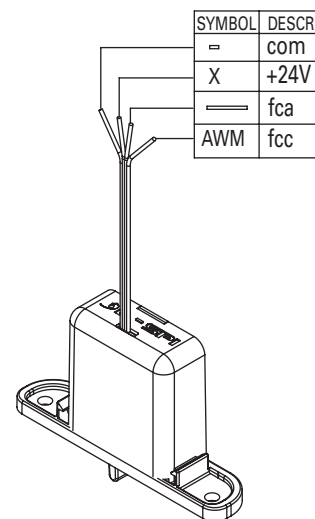
Complete the technical booklet and fulfil any obligations deriving from current regulations. The correct functioning of the various versions of IDEA is only and exclusively guaranteed when equipped with DASPI safety devices and only when combined with an original control boards.

TURNING OFF THE POWER SUPPLY

Turn the key "CH" clockwise, then extract the handle at 90° towards the operator (figure 8) and manually open the gate. To re-establish normal functioning of the automation unit, place the handle in its original position until a click is heard, which guarantees it has locked.

Store the key "CH" in a safe place only known to the operators who use the automation unit. Switch on the power supply and ensure that there are no persons in the area in which the gate is moving.

WIRING DIAGRAM FOR MAGNETIC SWITCHES



DICHIARAZIONE CE DI CONFORMITA' TIPO "B"

DIRETTIVA 89/392 CEE E SUCCESSIVE MODIFICHE • RECEPIMENTO NAZIONALE DPR 459/96

*Motoriduttore per cancelli scorrevoli: modello **IDEA** (tutti i tipi)*

E' conforme alle seguenti direttive:

Direttiva 89-392 CEE e successive modifiche DPR 459/96 Allegato 1

Direttiva 73/23 CEE apparecchi a bassa tensione
norme armonizzate: **EN 60204-1, EN 60335-2**

Direttiva 89/336 CEE compatibilità elettromagnetica
norme armonizzate **EN 55022, IEC 1000-3-2, IEC 1000-3-3**

**E' FATTO DIVIETO, PER LA MACCHINA OGGETTO DELLA PRESENTE
DICHIARAZIONE, DI ESSERE MESSA IN SERVIZIO PRIMA CHE LA MACCHINA
IN CUI SARA' INCORPORATA O ASSIEMATA, NEL CASO SPECIFICO
"CANCELLO SCORREVOLE AUTOMATICO",
SIA STATA DICHIARATA CONFORME ALLE
DISPOSIZIONI DELLA NORMATIVA.**

Malo 02/01/2010

DASPI automazione cancelli s.r.l.
via Copernico 76/78
36034 Malo • (VI) • Italy

Spinella Denis
Legale Rappresentante

DASPI AUTOMAZIONE CANCELLI S.R.L. SI
RISERVA IL DIRITTO DI APPORTARE TUTTE
LE MODIFICHE CHE RITERRA' OPPORTUNO
AL FINE DI MIGLIORARE I PRODOTTI
PRESENTI NEL SEGUENTE MANUALE.
LE ILLUSTRAZIONI E FOTOGRAFIE SONO
PURAMENTE INDICATIVE. E' VIETATO L'USO
E LA RIPRODUZIONE ANCHE PARZIALE DEL
MATERIALE QUI PRESENTATO.
TUTTI I DIRITTI SONO RISERVATI.

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DE LOS MATERIALES PRESENTADOS, O DE
UNA PARTE DE ÉSTE. TODOS LOS DERECHOS
ESTÁN RESERVADOS.

DIE FIRMA "DASPI AUTOMAZIONE CANCELLI
S.R.L." BEHÄLT SICH DAS RECHT AUF DIE
VORNAHME SÄMTLICHER ÄNDERUNGEN
VOR, DIE SIE ZUR VERBESSERUNG DER
IM FOLGENDEN HANDBUCH BEHANDELTEN
PRODUKTE FÜR GEBOTEN ERACHTET.
DIE BILDDARSTELLUNGEN UND
FOTOGRAFIE ERHEBEN KEINEN ANSPRUCH
AUF RICHTIGKEIT. DIE NUTZUNG
UND VERVIELFÄLTIGUNG DES HIER
PRÄSENTIERTEN MATERIALS IST - AUCH
IN TEILEN - UNTERSAGT. ALLE RECHTE
WERDEN VORBEHALTEN.



DASPI AUTOMAZIONE CANCELLI S.R.L.
via Copernico 76/78
36034 Malo • (VI) • Italy
tel. ++39 0445 602261
fax ++39 0445 585035
www.daspi.it • info@daspi.it

D-SPEED

VER. III° • 2010



CENTRALE DI COMANDO PER CANCELLI SCORREVOLI 230 Vac 50/60 Hz

CONTROL PANEL FOR 230 Vac 50/60 Hz SLIDING GATES

CENTRAL DE CONTROL PARA PUERTAS CORREDIZA 230 Vac 50/60 Hz

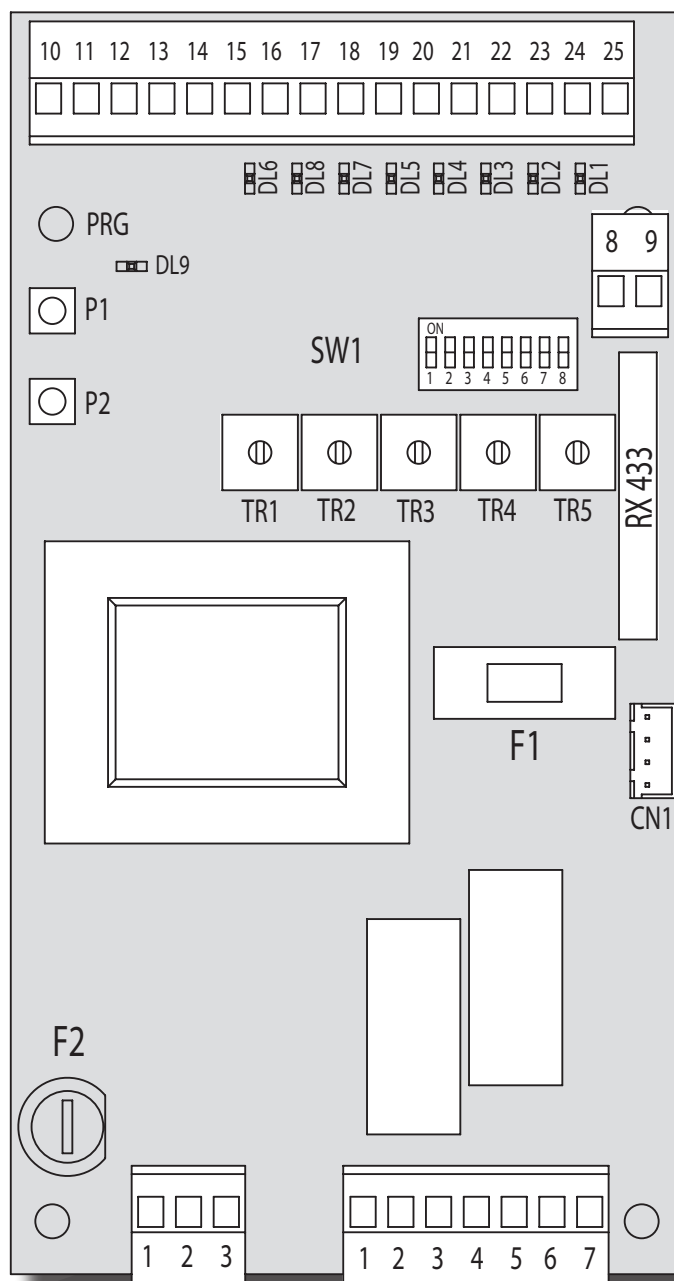
CENTRALE DE COMMANDES POUR PORTAILS COULISSANTS 230 Vca 50/60 Hz

MANUALE D'USO E DI INSTALLAZIONE

INSTRUCTIONS MANUAL

MANUAL DE INSTRUCCIONES

MANUEL D'UTILISATION ET D'INSTALLATION



EN 1 • GENERAL SAFETY INFORMATION ATTENTION: It is prohibited to carry out any kind of assembly, repair or adjustment to the apparatus by unqualified staff, and if the necessary precautions haven't been taken and electricity supply disconnected (including any back-up batteries), in order to avoid any possible accident or injury, DASPI will not be responsible for any damage or injury to people, animals or objects resulting from improper use of the apparatus or for use other than what is specified in this instruction booklet, and/or resulting from any modification carried out on this product and its components. This control panel is not suitable for installation in an explosive atmosphere. **Keep this manual with care, enclose it to the technical installation file and keep them in a suitable and convenient place known by whoever is concerned, for future reference.**

2 • PRODUCT TYPE The D-SPEED control panel is designed to control a 230 Vac 50/60 Hz motor for sliding gates. It is supplied with an electronic clutch, encoder, obstacle detection system, slowing down, adjustable braking devices and a built-in radio receiver.

3 • TRIMMER

TRIMMER	DESCRIPTION
TR1	For adjusting gate pause time before re-closing. Feature is active in Automatic, Residential and Condominium operating modes. Feature is not active in Standard and Step by Step operating modes. From 2 to 140 seconds. Turning clockwise increases the pause time.
TR2	For adjusting motor torque from 20 to 100%. Turning clockwise increases the torque.
TR3	For adjusting the braking from 0 to 100% in the slowing down phases. Turning clockwise increases the braking. To deactivate braking feature the trimmer must be turned fully anti-clockwise. Attention! Use only with very heavy gates from 1000 kg and over, or with considerable inertia.
TR4	For adjusting motor speed from 30% to 100% during slowing down. Turning clockwise increases the speed in slowing down. To disable the deceleration, the trimmer must be turned fully clockwise.
TR5	For adjusting obstacle sensitivity. To increase the sensitivity rotate the trimmer counter-clockwise. To disable the feature rotate the trimmer completely clockwise.

4 • DIP-SWITCH

SW1			
DIP	FEATURE	ON	OFF
1	Not used	--	--
2	Not used	--	--
3	Not used	--	--
4	Safety input	Safety edge	Photocell 2
5	Pre-flashing	Enabled	Disabled

OPERATING MODES TABLE

START command with:	OPERATING MODE														
	Standard (default)			Automatic (*)			Residential (*)			Condominium (*)			Step by Step		
	DIP6	DIP7	DIP8	DIP6	DIP7	DIP8	DIP6	DIP7	DIP8	DIP6	DIP7	DIP8	DIP6	DIP7	DIP8
	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
Gate closed	Gate Opens														
Gate opening	Gate Stops			Gate Stops			Command Ignored			Command Ignored			Gate Stops		
Gate open with limit switch engaged	Gate Closes			Gate Closes			Gate Closes			Gate Restarts the pausing time			Gate Closes		
Gate closing	Gate Opens			Gate Opens			Gate Opens			Gate Opens			Gate Stops		
Gate in Stop	Gate Closes			Gate Closes			-			-			Gate Closes		

(*) With automatic time closing feature enabled (not available in Standard and Step by Step modes)

(*) To activate additional feature "Close after passing through photocells" switch DIP8 ON (not available in Standard and Step by Step modes)

Each time dip-switch and trimmer positions are adjusted, control panel must be reset by turning off the power. (Disconnect the circuit breaker or remove the fuse F2 or disconnect the power terminal block)

5 • LED

DL1	Always off, it turns on with OPEN command	DL6	Always on, it turns off with SAFETY command
DL2	Always off, it turns on with PED command	DL7	Always on, it turns off with LSO command (opening limit switch)
DL3	Always off, it turns on with START command	DL8	Always on, it turns off with LSC command (closing limit switch)
DL4	Always on, it turns off with STOP command	DL9	Always off, it turns on or flashes during programming or remote code storing procedure.
DL5	Always on, it turns off with PHOTO command		

Make sure that all N.C. contacts (normallyclosed contacts) are switched on. If not , double check that installed devices are working properly and powered. Remember that if a normally closed contact is not used, it must be bridged. If no LED is lit on, check electricity mains, then check that the fuses are working, Make sure that LEDs of all N.O. contacts (normally-open contacts) are switched off. If not, double check that installed device are working properly.

6 • STORING REMOTE CONTROLS

The D-SPEED control panel has a built-in radio receiver that can store up to 128 rolling code remote controls or 30 fixed code remote controls.

POPS model remote controls are not compatible.

Storing a remote control.

- 1 - Press P2 button and hold it down until the led DL9 begins flashing.
- 2 - Release button P2.
- 3 - Press the button of the remote control to be stored. Proper storing will cause the end of LED DL9 flashing. If after 10 seconds a remote control is not stored, storing procedure will be terminated automatically.

Storing a remote control for the PED (pedestrian) input.

- 1 - Press P2 button and hold it down until led DL9 begins flashing, do not release the button and keep it down until the flashing becomes faster.
- 2 - Release button P2.
- 3 - Press the button of the remote control to be stored. Proper storing will cause the end of LED DL9 flashing. If after 10 seconds a remote control is not stored, storing procedure will be terminated automatically.

Total deletion of all remote controls

Press button P2 and hold it down until DL9 LED starts flashing slowly at first, then medium, then faster, and eventually it turns off. The shut-off of the led DL9 confirms the cancellation of the whole memory.

N.B. If inputs which are normally closed (N.C.) are not being used, they must be bridged. If more than one N.C. contacts are used on the same terminal input they must be connected in series. If more than one N.O. contacts are used on the same terminal input they must be connected in parallel.

7 • TERMINAL DESCRIPTION

A-B-C	Power supply 230 Vac 50/60 Hz earth terminal "B"
1-2	Output flashing lamp 230 Vac 50/60 Hz max 50 W
3-4-5	Motor output. 3 common, 4 close, 5 open. Capacitor between terminals 4-5
6-7	Input aerial 6 shield, 7 hot pole.
8-9	Output warning light gate open 24 Vdc max 2W
10-11	Output power supply 24Vdc - accessories
12-13	Input safety edge or photocells on opening (DIP4)
12-14	Input limit switch close
12-15	Input limit switch open
12-16	Input photocells
17-18	Input stop button
17-19	Input start button
17-20	Input pedestrian button
17-21	Input open button

8 • PROGRAMMING

- 1. N.B. The gate must be closed and limit switch LSC engaged, Led DL8 = OFF.**
- 2. Hold P1 button down until LED DL9 begins flashing.
- 3. Give a first START command (or remote control command previously stored as in the instructions), the gate opens.
- 4. While opening is almost completed, give a second START command to fix opening slowdown. The gate will continue the travel until the opening limit switch LSO is engaged
- 5. Give a third START command, the gate closes.
- 6. While closing is almost completed, give a fourth START command to fix closing slowdown. The gate will continue the travel until the closing limit switch LSC is engaged.
- 7. Give a fifth START command, the gate opens.
- 8. Once reached the desired pedestrian opening, give a sixth START command, the gate is stopped and thus determines the partial pedestrian opening.
- 9. Give a seventh START command, the gate closes.

Once the closing has been completed (closing limit switch LSC is engaged, Led DL8 = OFF) DL9 LED will turn on steadily for about two seconds and then turns off. The programming is now completed.

If within 10 seconds from point 2 the sequence of programming is not started, led DL9 turns off and the programming procedure is terminated automatically.

During programming procedure, any STOP command or photocell intervention will cause the immediate termination of programming procedure (the gate stops, the led DL9 goes out and program is cancelled).

Points 7-8-9 must always be executed regardless of use of pedestrian mode.

It is mandatory to follow strictly the sequence described above.

Adjustments:

Deceleration speed

Adjust trimmer **TR4** in order to set the required speed for the gate during slowing down. Turn clockwise to encrease speed and turn anti-clockwise for decrease speed.

Motor torque

Adjust trimmer **TR2** in order to make the gate stop as required by regulations and carry out the necessary measurements. Turn clockwise for higher torque, turn anti-clockwise for lower torque

Obstacle sensitivity

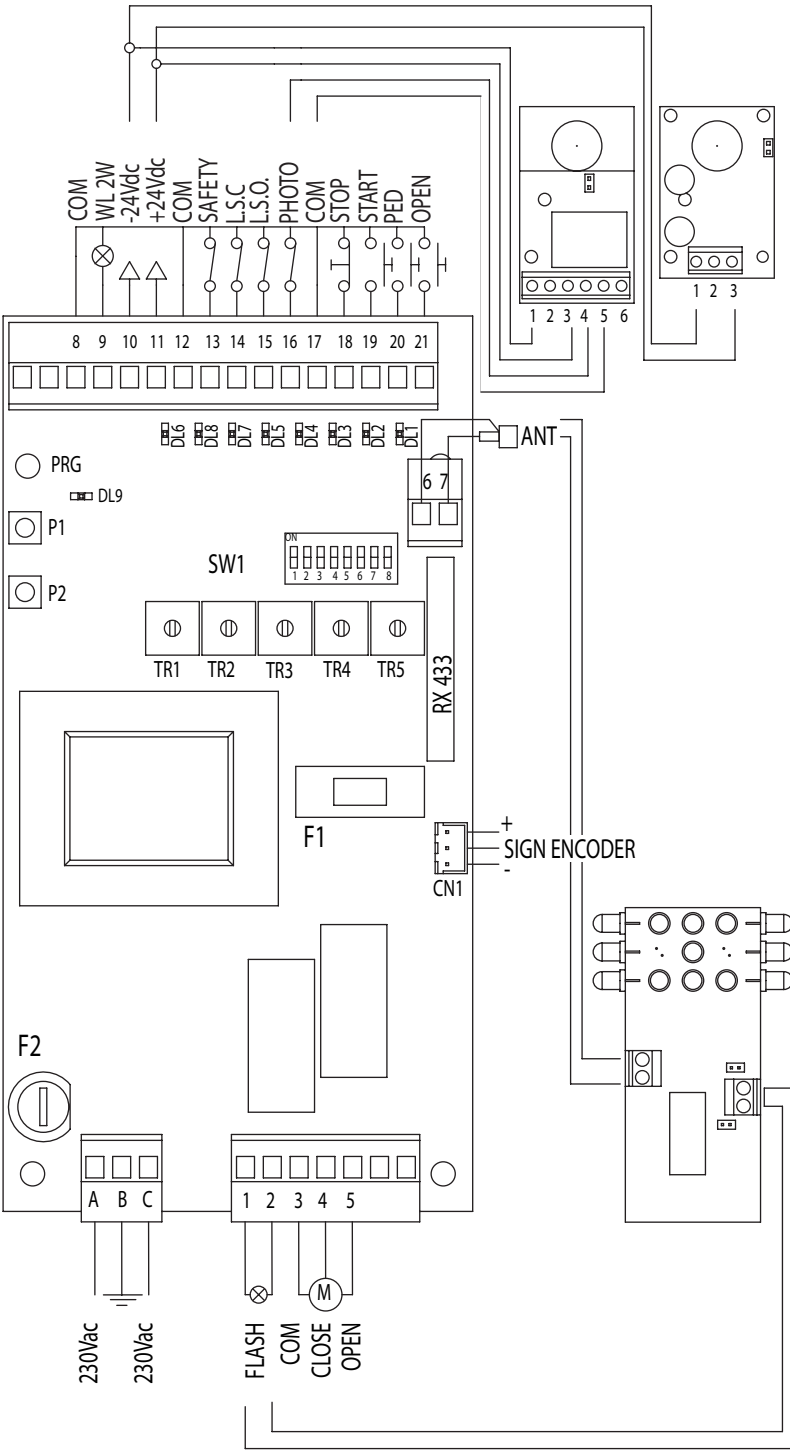
Adjust trimmer **TR5** in order to set the obstacle sensitivity. Turn the trimmer clockwise to decrease obstacle sensitivity and longer response time before reversing t, and turn anti-clockwise to encrease obstacle sensitivity and shorter response time before reversing

Automatic closing

Adjust trimmer **TR1** in order to set the pause time before automatic re-closing.

Braking

Adjust trimmer **TR3** in order to set brake according to weight of the gate. Turn clockwise for high braking action and turn anti-clockwise for low braking action.





DASPI AUTOMAZIONE CANCELLI S.R.L.

via Copernico 76/78 • 36034 Malo • (VI) • Italy

tel. ++39 0445 602261 • fax ++39 0445 585035

www.daspi.it • info@daspi.it

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