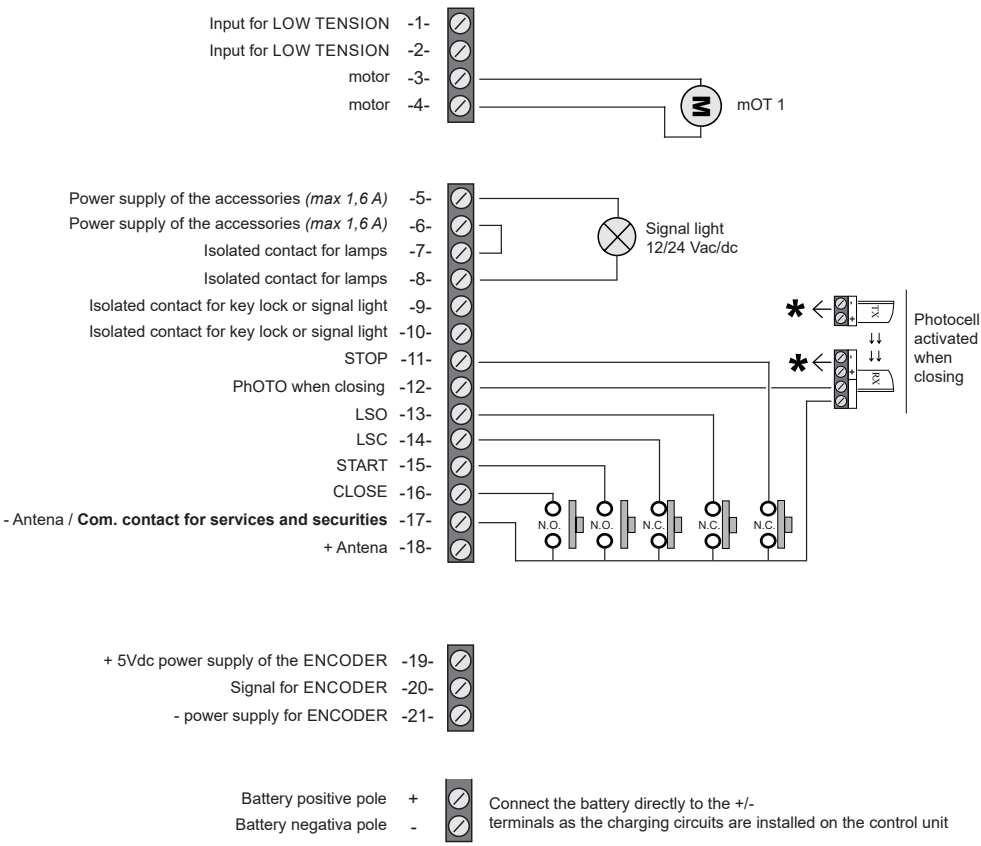
- 12/24Vdc control board for one motor
- For Sliding gates, roll up doors, rolling shutters
- Connection with encoder

KEQS07/S

manual and operating guide for the installer

ISO 9001:2008
Cert. n. 3614/2
Quality System Certified



* Power supply of the photo-beams:
Terminal Boards 5-6
max absorption 1.6 A

RoHS COMPLIANT 2002/95/EC

info@casi.it
www.casit.it

Premises

This manual provides all the specific information you need to familiarize yourself with and correctly operate your unit. Read it very carefully when you purchase the instrument and consult it whenever you have doubts regarding use and before performing any maintenance operations.

Environmental protection measures

Information regarding the environment for customers within the European Union. European Directive EC 2002/96 requires that units bearing this symbol on the unit and/or on the packaging be disposed of separately from undifferentiated urban wastes.

The symbol indicates that the product must not be disposed of with the ormal household wastes. The owner is responsible for disposing of this product and other electrical and electronic equipment through specific waste collection facilities indicated by the government or local public agencies. Correct disposal and recycling help prevent any potentially negative impact on the environment and human health. To receive more detailed information regarding disposal of your unit, we recommend that you contact the competent public agencies, them waste collection service or the shop where you purchased the product.

Small legend

LSO or FCA	Open limit switch
LSC or FCC	Close limit switch
START	control to drive the door AUTO-*choice*
PARTIAL OP.	in sliding units: control partial opening
Vac	alternate current
Vdc	direct current
NC	normally closed
NO	normally open
Isolated contact	isolated from power supply

Index

1 Introduction

1.1 Safety precautions

Using the unit improperly and performing repairs or modifications personally will void the warranty. The producer declines any responsibility for damages due to inappropriate use of the product and due to any use other than the use the product was designed for. The producer declines any responsibility for consequential damages except civil liability for the products.

Remember that systems for automatic gates and doors must be installed by highly qualifi ed technicians only and in full compliance with current law. Before starting installation, check that the mechanical consistency and sturdiness of the gate or door, check that the mechanical stops are suitable to stop the movement of the gate or door even if the electrical limit switches should fail or during manual operations.

1.2 Symbols and warning

DANGEROUS

This is a warning and if it is not respec it can provoque material damage.

DEVICE UNDER TENSION

The installation should be done only from professional installer.

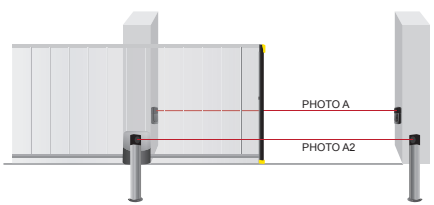
READ CAREFULLY THE OPERATING MANUAL

Read carefully this manul before installation and keep it for the future.

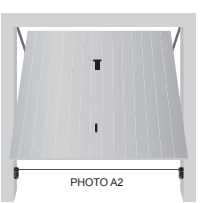
1.3 Type of installation

It is important to make an important risk analysis of the **"MACHINE"** and of the customers requirements in order to decide how many products should be installed. All photocells dispose of a synchronisation system which permit to avoid any interference between two couples of photocells (look the photocell's instructions for details) In the diagram, photocells **"FOTO A"** in opening they have no effect, while it provoque a complete inversion during closing. **"FOTO A2"** is the serial connection of **"FOTO A"** or **"ALT, FOTO B"** is the photocell working by closing and opening.

Installations for swing gates



Example in a roll-up door



We recommend to install a STOP switch which stops immediatelly the gate. The switch has a normally close contact which opens the contact when it is working. See Par. 4.11

2 Description of the connections

KEQS07/S is a new generation electronic circuit board with times count and digital deceleration. It has been built to meet many needs: for sliding gates, swinging and roller systems. Its reduced size makes it suitable for use it in all motors that are designed for internal electronics. The design has adapted the most advanced techniques to guarantee utmost immunity vs. noise, maximum operating fl exibility and to make a wide choice of functions available.

2.1 Product description

☞	Speed adjustment of slowing down.
☞	Self-learning of operating times
☞	Electronic regulation of the motive force
☞	4 operating modes (condominium included)
☞	Functions set with dip switches
☞	Small size

2.2 Field of application

The KEQS07/S electronic control unit is used to control the movement of entrances, swinging gateways, rolling gates and automatic doors.

2.3 Technical description

Dimensions	106 x 78 x 35	mm
Weight	150	g
Power supply	12 / 24 selectable by jumper J12	Vac
Maximum motor power	Check that the transformer delivers adequate power, for the motor installed on the system.	
Maximum signal light power	25	W
Absorption MAX isolated contact	2	A
Absorption MAX Accessories	1.6	A

3 Premises

3.1 Preliminary checks

Making the correct choice of installation is essential to ensuring adequate safety and good protection against atmospheric agents. Remember that the control unit contains powered parts and electronic components which by their very nature are sensitive to infi ltrations and moisture. The control unit is supplied in a container which guarantees an IP55 protection rating if adequately installed. Install the control unit on a permanent surface that is perfectly flat, adequately protected against impacts and at least 40 cm off the ground. The cables must enter the control unit from the bottom only; we recommend using wire leads and water-tight connections. When using tubing that could fi ll up with water or if the tubing comes from an underground well, the wires must enter a fi rst shunting box placed at the same height as the control unit and then, from there, the wires must be passed into the container holding the control unit, again entering from the bottom. This prevents any evaporation of the water in the tubing from forming condensation inside the control unit itself.

3.2 Type of electrical wires

Depending on the installation, the type and number of devices installed, the number of cables needed can vary. The table below shows the cables needed for a typical installation. The cables used in the installation must be IEC 60335 compliant.

⇨	Motor cable (if not equipped)	Cable 2 x 2 mm^2
⇨	Flashing signal	Cable 2x1,5 mm^2
⇨	Antena	Shielded cable type RG58
⇨	Key selector	Cable 3x0,5 o 0,75 mm^2
⇨	Photocell receiver	Cable 4x0,5 o 0,75 mm^2
⇨	Photocell transmitter	Cable 2x0,5 o 0,75 mm^2

3.3 Notes on connections

To guarantee operator safety and to prevent damaging the components, never make connections or insert wireless receiver boards while the control unit is powered. Power the control unit through a 3 x 1.5 mm cable. If the distance between the control unit and the ground systemconnection is more than 30 m, a ground plate must be installed in proximity to the control unit.

- If the motors do not have a cable, use the 4 x 1.5 mm cable (open + close + common + ground).
- In connecting the part with an extremely low safety voltage, use cables with a minimum section of 0.5 or 0.75 mm^2.
- Use shielded cables if the length exceeds 30m and connecting the ground braid only from the side of the control unit.
- Do not connect the cables in underground cases even if they are water-tight.
- If they are not used, the inputs to the Normally Closed (NC) contacts must be jumpered to the common".
- If the same input has more than one contact (NC), they are placed in series.
- If they are not used, the inputs to the Normally Open (NO) contacts are left loose.
- If the same input has more than one contact (NO), they are to be placed in series.
- The contacts must be mechanical and free of any potential.

4 Installation

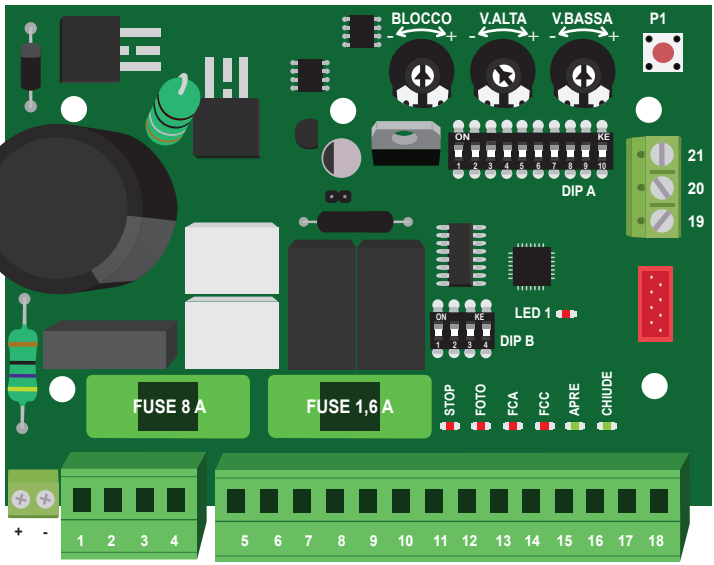
4.1 Scheme of the control unit and electrical connections

Use the correct cable to connect the battery and respect the polarity.

CONNECT DIRECTLY THE BATTERY.

The control boars has charge circuit, fuse and diode of power suplly.

WARNING: The control unit has an emergency module, connect the battery to the emergency module as shown in the scheme.



4.2 Adjustment of the FORCE, SPEED and SLOWING DOWN

BLOCK

Adjustment of the force

HIGH SPEED

Adjustmen of the speed

LOW SPEED

Adjustment of the slowing down

4.3 Description of the electrical connections

12/24 Vac/dc	1		Input for low tension: set up the JUMPER J12
	2		
Motor	3		Output for the connection of the MOTOR
	4		

- 12/24 Vdc	5		Output for the connection of the accessories: Absorption max 1.6 A
+ 12/24 Vdc	6		
i.c. Lamp	7		Isolated contact for LAMP
	8		
contact for elec. lock / signal light	9		Isolated contact for ELEC. LOCK or SIGNAL LIGHT
	10		
Stop	11		Ingresso STOP
Photo CL	12		Input photocell PHOTO: operating only when closing
OLS	13		Input for Open Limit Switch
CLS	14		Input for Close Limit Switch
Start	15		Input for START command: set up DIP 1 and DIP2
Close	16		Input CLOSE command
Common	17		Common, services and securities
+ Antena	18		Positive pole antena

We remind you that in case some inputs are not used, (STOP, FOTO) you need to be deactivated with DIPB as shown in the Par 5.2

+ 5 Vdc	19		Power supply of the Encoder
Sgn Encoder	20		Encoder signal
- 5 Vdc	21		Power supply of the Encoder

4.4 Checking connections

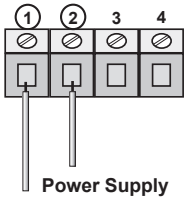
The LED L1 indicate the correct logic of the control board. It flashes each second and it indicates that the micro-chip is activated and it is waiting for a command.

When the control board is powered, the led are lit on when the input is a closed contact.

Normally the red led **STOP - PHOTO - OLS - CLS** are lit on
Normally the green led in in the **START - CLOSE** are switched off

STOP **PHOTO** **OLS** **CLS** **START** **CLOSE**

4.5 Connection of the POWER SUPPLY and BATTERY



The following control board can be powered **12/24Vac/dc**. To set up the power supply put the jumper 12V as shown:

12 Vac/dc

24 Vac/dc

Directly connect the battery to the terminals +/- and respect the polarity. CONNECT DIRECTLY THE BATTERY.

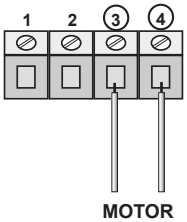
WARNING:
The control unit has an emergency module, connect the battery to the emergency module as shown in the scheme.

4.6 Connection of the MOTOR

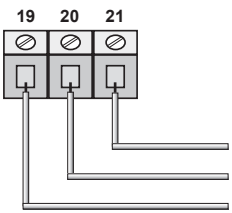
Pay attention not invert the poles OPEN and CLOSE.

In case of doubts out manually the gate in the middle of the stroke.Keep ready to stop the gate with a STOP COmmANDE.

Interrupt the photocells if you want to check the correct open, if the gate starts closing , the connection is wrong and you need to invert the cables OPEN with CLOSE of the motor.



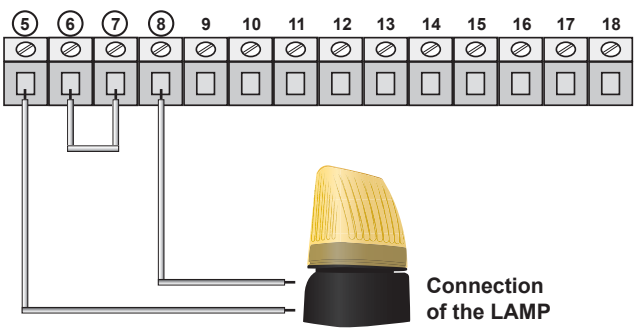
4.7 Connection of the ENCODER



- power supply of the ENCODER
Signal for encoder
+ 5V power supply of the ENCODER

For a correct use of the encoder, we recommend to ready the manual.

4.8 Connection of the LAMPS

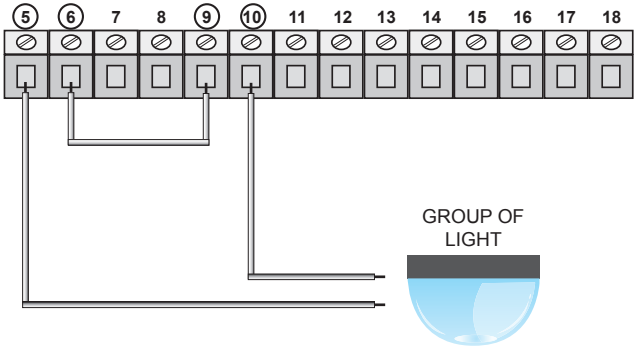


Connection of the LAMP

For activate or deactivate the flashing light for the output of the Light, Keep pressed the button P1 for a fixed or a flashing light until the LED-L1 starts flashing when the gate is closing.

In case you activate the pre-lighting see Par. 5.1

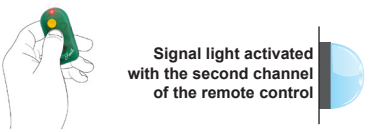
4.9 Connection of the LIGHT



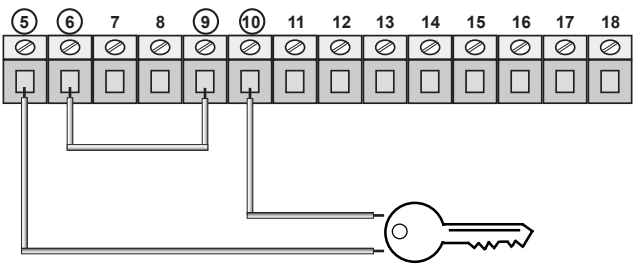
If you bring DIP8 in ON you can connect a signa light which will be lit on before opening and two minutes after closing.

DIP 8 - ON

Besides the second channel of the remote control doesn't close but it activate or deactivate the signal light.



4.10 Connection of the ELECTRICAL LOCK

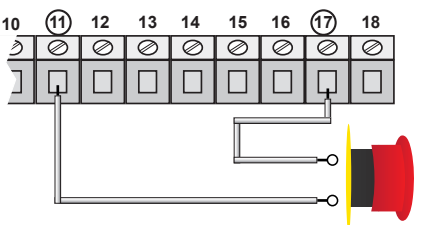


If you put DIP8 in OFF you can connect an electric lock. If you install a signal light (Courtesy light) it is not possible to connect an electrical lock.

DIP 8 - OFF

4.11 Connection of the STOP

Connection of the **STOP** control
Push-button: stops and temporarily prevents all control unit function until it is pressed again.
Switch: keeps the automation blocked until it is reset.

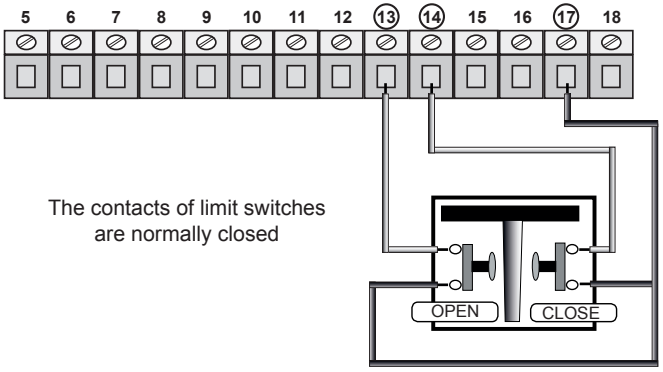


If the input STOP is not used bring DIP 1B in ON

Connection of the safety devices requires the use of any push-button or N.C. (normally closed) contact. When there are several safety devices, they are connected in series.

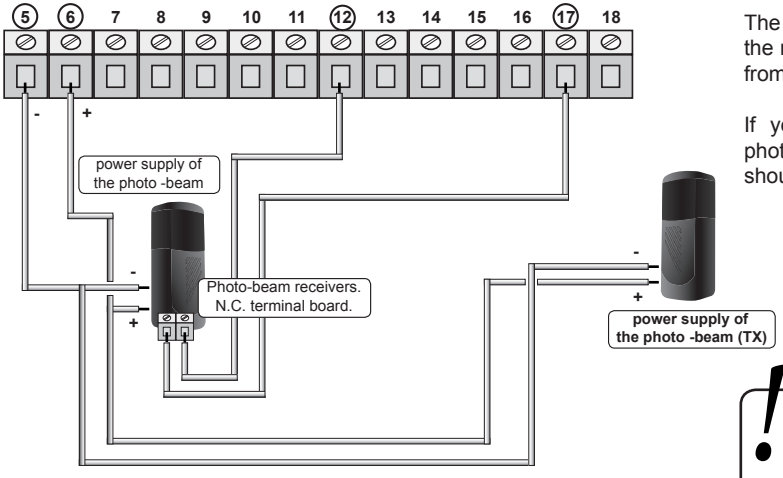
4.12 Connection of the Open and Close limt switches

It is shown in the picture the connection of both limit switches:



If the open and close limit switche are not used, bring DIP 3B in ON (open limit switch) and DIP 4B in ON for close limit switch.

4.13 Connection of the PHOTO A (only closing)

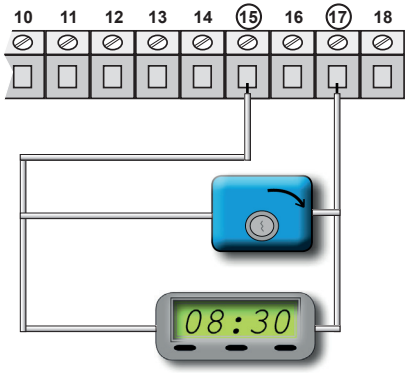


The normally closed contact of the receiver should be isolated from tension.

If you you more couples of photobeams the connection should be serial.

If the input PHOTO is not used bring DIP 2B in ON

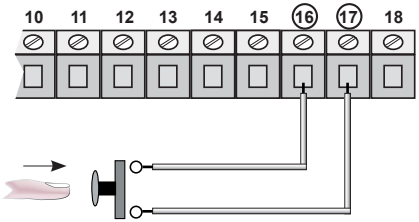
4.14 Connection of the START commands



The START command can be can be connected with each button or normally open contact to the terminal board no. 15-17 . If more devices are available, connect them in parallel.

You can connect a TIMER to the terminal board to programm the opening time of the gate. The contact of the timer should be normally open and it should be closed for all time the gate is open. If the open command is connected to the terminal board 15, connect it in parallel.

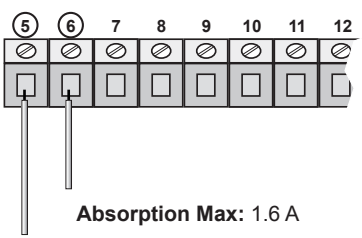
4.15 Connection of the CLOSING / PEDESTRIAN



The CLOSE input can be used as PEDESTRIAN command, a command to switch to CLOSE PEDESTRIAN and vice versa, refer to Page 20

The connection of the closing can be connected to each button or a n.o. contact.

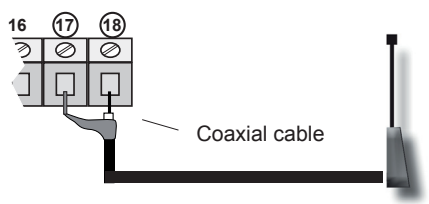
4.16 Power supply of the accessories



Absorption Max: 1.6 A

4.17 Connection of the ANTENNA

If you use a cable for the antenna cut it at 17cm for the 433.92MHz frequency and connect it to the terminal board no.18.



CONNECT THE ANTENNA ONLY AFTER LEARNING OF REMOTE CONTROL CODES!

5 Function

The control unit KEQS07/S is for automatic doors, too. Now we can see the correct installation. First of all there are two functions: STANDARD function and AUTOMATIC DOOR function.

Fonction STANDARD *(Default)*

Encoder
The control unit opens and closes with an additonal time of 2 sec to support the latch.

Obstacle detection
The intervention of the obstacle detection is consider as limit switch

Fonction PORTES AUTOMATIQUES

Encoder
The control unit stops the motors in the position you established before.

Obstacle detection
WHEN THE LIMIT SWITCHES ARE NOT AVAILABLE.
When the motor is working with high speed, the control unit renverse the direction and it closes at lower speed. When the motor is closing at high speed the control unit renverse the direction of the motor. The obstacle detection at low speed is considered as LS when the gate is opening and closing.

IF THE LIMIT SWITHES ARE AVAILABLE.
When the motor is working with high and low speed, the control unit renverse the direction and it closes at lower speed. When the motor is closing at high and low speed the control unit renverse the direction of the motor.

The control unit KEQS07/S has two versions available. Make as follow to program the different versions:

1	Turn off the control unit, take out the 230V tension	
2	Connect the control unit KEQS07/S after a while again	
3	**LED1** remains lit for 5 seconds	 **LED1**
4	Press and release the button **P1** in **5 seconds**	 **P1**
5	Count the flash of the **LED L1**	 **LED1**
6	**1 flash:** it has been activated the **STANDARD VERSION (Default)** **2 flashes:** it has been activated the **AUTOMATIC DOOR VERSION**	
7	If you want to change the version, go back to point NO. 4 otherwise choose from the list **P1**.	

5.1 Logic of function DIPA

The control unit has a number of micro-switches which activate different functions for a safety installation and suitable to the customer's requirements:

	1-OFF 2-OFF 4-ON	**industrial with automatic reclosing**	The command OPEN is only for opening and the command CLOSE is only for closing. The commande CLOSE is accepted for STOP or PAUSE, so when the LSO is turned off. *Closes again automatically at the end of the pause time.*
	1-OFF 2-OFF 4- OFF	**industrial without automatic reclosing**	The command OPEN is only for opening and the command CLOSE is only for closing. The commande CLOSE is accepted for STOP or PAUSE, so when the LSO is turned off. *It doesn't re-close automatically*
	1-ON 2-OFF	**collective use**	It doesn't accept any order in pause and opening, it recloses automatically at the end of the pause time.
	1-OFF 2-ON	**step by step**	At the end of each comand follow the logic: **open-stop-close-stop-open… etc**
	1-ON 2-ON	**bistable with automatic reclosing**	Each commande the logic is: **open-stop-close-stop-open.** It recloses automatically at the end of the pause time.
	3-ON	**reversing and closing stroke (DIP 8)**	<u>With DIP 8 in ON</u> It activate the reversing stroke when it reaches the close limit switch. <u>With DIP 8 in OFF</u> It activate the reversing stroke and closing stroke.
	DIP 1-2-4 ON	**"death man" function**	With DIP 1-2-4 ON: It activate the "death man" function
	5 - ON	**torque relay**	Set up of the torque relay: aceleration and deceleration
	5-OFF	**torque relay**	The motor starts after 1 sec. after the re-start of the motor
	6 - ON	**prelighting**	It activate pre-lighting of 3 sec

	7-ON	**allow the encoder input**	Put in ON to allow the input of the encoder. In case it doesn't connect, put the dip switch in OFF
	8 - ON	**signal light**	It is possiblE to connect a signal light, which it will be turned on from the gate opening after 2 minutes after closing. Besides the second channel of the transmitter activate or deactivate the courtesy light.
	8-OFF	**electrical lock**	It permet the electrical lock
	9 - ON	**memorization of the time and position**	Memorization of the working time and position
	10	**-**	Not used

5.2 Exclusion of the inputs STOP-FOTO-FCA-FCC DIPB

	1-ON	**STOP**	Exclusion of the input STOP
	2-ON	**FOTO**	Exclusion of the input PHOTO
	3-ON	**OLS**	Exclusion of the input OLS
	4-ON	**CLS**	Exclusion of the input CLS

6 Managing of the REMOTE CONTROL DIP9 OFF

This receiver can manage standard codes from 12 till 64 bit and rolling codes HCS©. Concerning the rolling codes it is possible to activate or disactivate the key'scontrol and the rolling counter. With this function you can choose the security level of the receiver.

6.1 Cancellation of the memory

The control unit dispose of a button **P1** to cancel the memory of the remote controls.
To do this operation make as follow:

The outputs are deactivated, so no contacts available, the connected lights should be switched off.
This operation is possible only when the gate is closed.

1	**Press and keep presse** the **button P** on the control board, LED L1 will lit on
2	**After 6 seconds the LED L1** will turned off and now you can release the **button P1**. LED L1 will flash 4 times then it will flash regularly and it is ready to manage the fixed code (1 regular flash see next chapter). The memory is cancelled.

6.2 Activation of the codes

The receiver of the KEQS07/S can manage fixed and rolling code. The outputs should be deactivated, no contacts available, lights turned off. This operation is possible only when the gate is closed

1	**Press and keep presse** the **button P** on the control board, LED L1 will lit on.
2	In these 6 seconds press and release **button P**, LED L1 will flash one and it will lit on for 6 seconds.
3	Press and release within 6 seconds le button P1 , LED L1 flashes twice and then it flashes regularly, the control unit will manage of the same version of the first remote control . Once you insert the first code, it will manage only that type of code. If you learn first a 12 bit remote control (for example dip-switch) it will learn only 12 bit codes of the same version

In case you need to re-manage all type of codes for example HCS, 12 bit etcc… read the passages 1 and 2 and wait until LED L1 is switched off.

LED L1 in the **STANDARD** function indicates all type of codes you are managing.

1 regular flash: it will manage all type of HCS codes, 12 bit, etc
2 regular flash: The control unit accept codes of the same version of the first remote

6.3 Memorization of the codes

The control unit dispose of a **BUTTON P1** to programm the time and the memorization of the remote controls.

If you memorize a SMILE-C, make sure that all buttons have a code otherwise you need to generate a new code. If you need to memorize a rolling code SMILE-H you don't need to self-generate a code.

The ouputs need to be dactivated, so no contacts available and lights should be turned off. This procedure is possible only when the gate is closed. LED L1 has to flash regularly see "Activation of codes" in the previous paragraph.

CONNECT THE ANTENNA ONLY AFTER LEARNING OF REMOTE CONTROL CODES!

Memorize the first channel of the remote OPEN (START)

This function works in the DIPA 1 and 2 see "Logic of function":

1	**Press and release button P1** in the control board, LED L1 will lit on for 6 seconds. Then...
2	In 6 seconds press the button of the remote controls which OPENS (START) we suggest the first channel. LED L1 will flash 5 times to confirm the operation and it will flash regularly. Code OPENS memorized.

Memorize the second channel of the remote CLOSE

This function has the following logic: **CLOSE-STOP-CLOSE** and it cannot be changed:

1	**Press and release button P1** in the control board, LED L1 will lit on for 6 seconds. Then...
2	In this time **press and release button P1** in the control board, **LED L1** will lit on for 6 seconds and then..
3	Press and release the button of the remote control which **CLOSE** we suggest the 2nd channel. This function has the following logic: **CLOSE-STOP-CLOSE** it cannot be changed. Led L1 will flash for 5 times and it will flash as in the beignning. The code has benen memorized

If LED L1 will flash regularly without flashing 5 times, it means that the memory code is full and it doesn't accept any remote controls.
For 20 bits the capacity of the code is 22 codes,
If you need to memorize more codes you need to install a supplementary receiver RX2 or RX4 with a capacity of 3000 codes.

If you are not sure that this procedure is correct start from point no.1 again but cancel the memory before. It is important to start from the previous chapter (Cancellation of the memory)

7 Turn on and programm

When the control unit will turn on again, if everything will be connected in the right way, led L1 (red) should flash while the led of inputs **STOP - PHOTO - OLS - CLS - ALT - SAFETY EDGE** should turned off (if the gate is closed OLS is turned off). The led START and PED should turned off. When you turned off the control unit, the gate is opening it means that the control card has been previously turned off while it was open .

If you had to set up the working time. Turn off the control card, close the gate, put DIP9 in ON and give power supply to the control card.

Put in ON the DIP9 and you can set up

- **working time and pause time**
- **position of the slow down**
- **activation or deactivation of the lamp in pause time**

7.1 Memorization of the working time

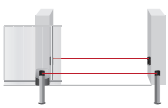
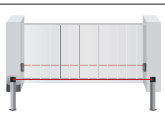
Here you can memorize the working time.You need to use the START command. Those commands can be used with a device connected to the terminal board 15-17 or from a memorized remote control (see MEMORIZATION OF THE REMOTE CONTROL)

This operation is possible only when the gate is closed. Start from the initial condition of the control unit.

Put DIP9 in ON before powering the control unit.
It is necessary to set up the mechanical closing limit switches (when closing and opening)

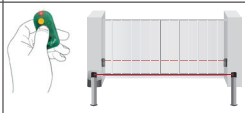
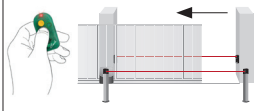
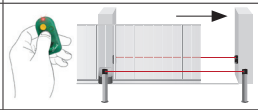
7.2 Memorization of the working time with a command START

IF YOU DON'T USE AN ENCODER:
Memorize the time with the trimmers (speed)

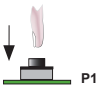
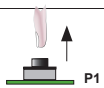
1		Take the power supply and put **DIP9** in **ON.**	The gate is CLOSED
2		Give power supply to the control unit.	
3		Press the **START** button (all which is connected to the terminal board no.15 or in the 1st channel of the remote control)	The gate is OPENING
4		Press **START** to definy when the automation starts slowing down otherwise read the next passage.	The gate is SLOWING DOWN
5A		If the open limit switch is not available, when the gate reach the stroke, press the START comand.	The gate STOPS
5B		If the open limit switch is connected, you don't need to do nothing as the limit switch boost the programm.	
6		Let the time goes until the gate is opening.	This is the automation "PAUSE TIME"
7		The automation is in PAUSE TIME	The automation starts in CLOSING mode
9		Press **START** when the gate starts to slowing down, otherwise you need to read the next passage.	The gate is SLOWING DOWN
10		Wait until the gate stops automatically.	The gate is CLOSED
11		Put in **OFF** the **DIP9** to return in the standard function. The signal light turned off and LED L1 will starts again.	End of the memorization of the working time

7.3 Use the input CLOSE for PARTIAL OPENING

In case you need to use the input CLOSE for PARTIAL OPENING, make as follow:

1		Take the power supply and put **DIP9** in **ON.**	The gate is CLOSED
2		Give power supply to the control unit. (Led L1 is turned off when the control board is programming)	The gate is OPENING
3		Press the CLOSE command (everything connected to input 16 or the 2nd channel of the compatible remote control that has been learned)	The gate is OPENING
4		Press the CLOSE command to stop the automation at the desired point (end of partial opening).	The gate is SLOWING DOWN
5		Let the time elapse during which the automation must remain open.	This is the automation “PAUSE TIME”
6		Press CLOSE command to start closing	The automation starts in CLOSING mode
7		Wait for the automation to stop automatically	The gate is CLOSED
8		Put in **OFF** the **DIP9** to return in the standard function. The signal light turned off and LED L1 will starts again.	End of the memorization of the working time

7.4 Go back to the INPUT CLOSE for CLOSE FUNCTION

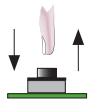
1		Take the power supply and put **DIP9** in **ON.**
2		Give power supply to the control unit. (Led L1 is turned off when the control board is programming)
3		**Press and keep presse** the **button P**
4		Wait until the LED1 starts blinking (about 5 seconds)
5		now you can release the **button P1**
6		Put in **OFF** the **DIP9** to return in the standard function. The signal light turned off and LED L1 will starts again.

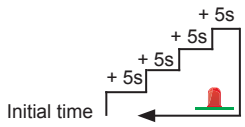
7.5 Increase the PAUSE TIME

It is possible to increase the pause time without repeating the memorization of the working time. When the gate is in pause, each pression of P1, the pause time increased of 5 sec. There are 4 different levels: at the 5th pression the pause time starts at the beginning (LED L1 will lit on longer). It is possible to increase the pause time up to 20 seconds (4 pressions x 5 sec). If 20 seconds are not sufficient, you can increase the pause time making a new cycle.

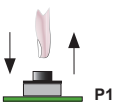
This operation is possible only when the gate is opened but in pause time.

The pause time changes by each pression.





7.6 Fixed light or flashing



Keep pressed the button P1 for a fixed or a flashing light until the LED starts flashing when the gate is closing.

8 Note

9 Declaration of CE conformity

(according to EC Directive 2006/42, Attachment II, part 1, ses. A)

The undersigned,
Administrator

DECLARES THAT:

Product's name: **KEQS07/S**
12/24Vdc control board for one motor

THE PRODUCT COMPLIES	**with what is outlined in the European Community directive:**
2006/42/CE	EC DIRECTIVE 2006/42 ISSUED BY THE EUROPEAN PARLIAMENT AND COUNCIL on may 17, 2006 harmonizing the legislation of the member countries regarding machinery.

Reference: Attachment II, part 1, ses. A (EC Declaration of Conformity issued by the manufacturer).

THE PRODUCT COMPLIES	**with what is outlined in the European Community directives:**
2006/95/CE	EEC DIRECTIVE 2006/95 ISSUED BY THE EUROPEAN COUNCIL on December 12, 2006 harmonizing the legislation of the member countries regarding electric materials for use within certain voltage limits

Reference to harmonized standards: EN 60335-1

2004/108/CE	EEC DIRECTIVE 2004/108/CE ISSUED BY THE EUROPEAN COUNCIL on December 15, 2004, harmonizing the legislation of the member countries regarding electromagnetic compatibility.

Reference to harmonized standards: EN 61000-6-2 EN 61000-6-3

IL PRODOTTO E' CONFORME	**with the essential requirements of article 3 of the following European Community Directive, for the use for which the product is designede**
1999/5/CE	EC DIRECTIVE 1999/5 ISSUED BY THE EUROPEAN PARLIAMENT AND COUNCIL on March 9, 1999 regarding wireless units and telecommunications terminals and their reciprocal recognition

Reference to harmonized standards: ETSI EN 300 220-3 ETSI EN 301 489-1 ETSI EN 301 489-3

The directive 2006/42/CE remind that it is not allowed the function of the product until the machine, for which the product is included, is not indentify and declared conformed to the 2006/42/CE directive.

1 april 2013
The Administrator

RoHS COMPLIANT 2002/95/EC

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