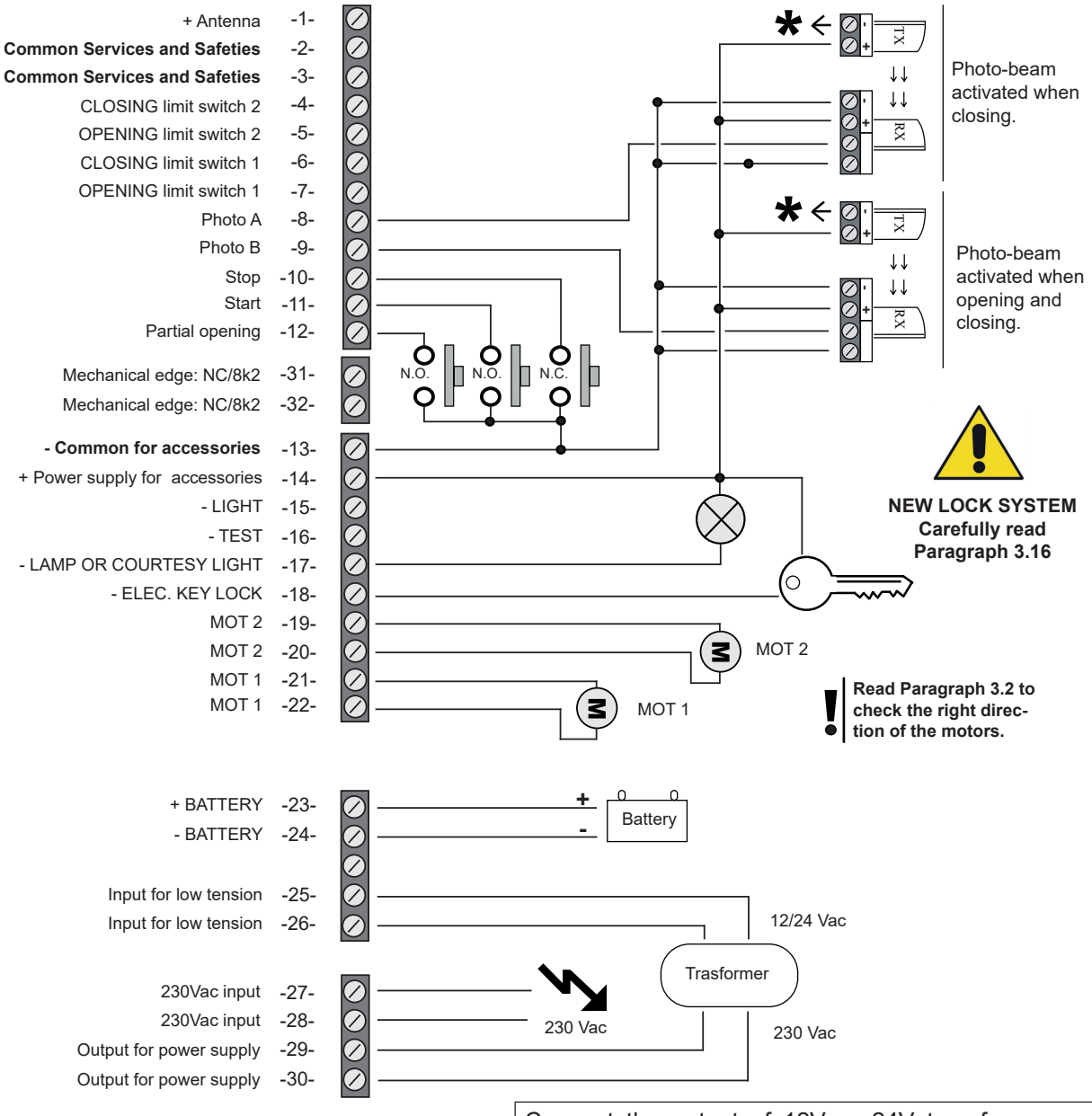
- 12/24V control unit
- Display program
- Total programmable

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

KEQS10

Manuals



Connect the output of 12V or 24V transformer according to the motor supply voltage and consequently set the S21 function of:	
S 21	0=12V(default) 1=24V

* Connect this point to the terminal board no.16 for the photo-test. Otherwise connect it to the terminal board no.13

RoHS COMPLIANT 2002/95/EC

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Foreword

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.

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.

The automation is conformed to the european laws: **EN 60204-1, EN 12445, EN 12453**

It is compulsory to be conformed to the automatic gates: **EN 12453, EN 12445, EN 12978** and national laws.

The force of the door should be measured and adjusted according the maximum values of the norm **EN 12453**.

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 normal 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, the waste collection service or the shop where you purchased the product.

Small dictionary

OLS	Opening Limit Switch
CLS	Closing Limit Switch
START	START control
PEDESTRIAN	Partial Opening
Vac	(alternate current)
Vdc	(direct current)
NC	Normally closed
NA o NO	Normally open
Contatto pulito	Isolated contact

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1 Introduction

KEQS10 is a new control unit with time counter and digital slow down. It has been designed for different uses: for one-two motors gates, low tensions motors mechanical and oleodynamic. It has been used the most advanced technologies to guarantee the protection against interferences, the flexibility and the variety of functions.

1.1 Description of the product

☞	Self-learning of the working time
☞	automatic battery charter
☞	Reading and program with DISPLAY
☞	Check of the motors, Max 80W totally
☞	Adjustment of the motor speed and slow down
☞	Obstacle detection for separate motors and separate speed and slow down for the motors
☞	Code managing (up to 197 remote controls)
☞	Test for safety devices before each opening
☞	Opto-isolated inputs, excepted for PARTIAL OPENING

1.2 Technical description

Maximum power with trasformer: 100 VA	80 W
Protection Fuse	**F1**: 1.6 A - **F2**: 4 A - **F3**: 8 A
Dimensions	b170 x h90 x p30 mm
Weight	250 g *(transformer not included)*

2 Premises

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.

2.1 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.

2.2 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.

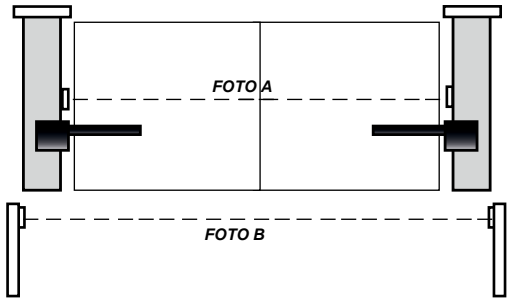
⇨	Power supply line	Cable 3x1,5 mm^2
⇨	Motor cable (if not equipped)	4x1,5 mm^2 Min Cable, for long distances use a 4x2,5 mm^2
⇨	Flashing signal	Cable 2x1 mm^2
⇨	Antenna	Shielded cable type RG58
⇨	Key selector	Cable 3x0,5 o 0,75 mm^2
⇨	Photocell transmitter	Cable 2x0,5 o 0,75 mm^2
⇨	Photocell receiver	Cable 3x0,5 o 0,75 mm^2

2.3 Type of installation

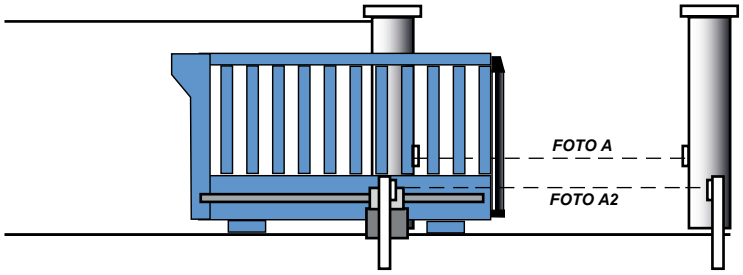
These two simple diagrams show only one of the possible applications for this control unit. The risks inherent to the “MACHINE” and the user’s requirements must be analyzed in depth in order to establish how many elements need to be installed. All photocells have a system of synchronism that makes it possible to eliminate interference between two pairs of photocells (for other details, see the instructions for the photocells).

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



Application on sliding automation



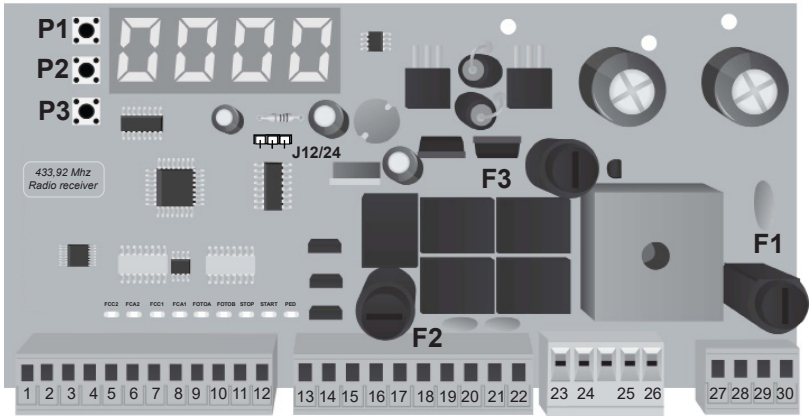
2.4 Notes on connections

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 system connection 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^2 cable (open + close + common + ground), for long distances use a 4x2,5 mm^2.
- In connecting the part with an extremely low safety voltage, use cables with a minimum section of 0,5 o 0,75mm^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.

Remember that systems for automatic gates and doors must be installed by highly qualifi ed technicians only and in full compliance with current law.

2.5 Scheme of the control unit and electrical connections



SET UP OF THE CONTROL UNIT
To program the control unit press **P1**, the gate must be closed *(if you press* **P1** *when the control unit is turning on. It leaves the function before the turning off)*

Use **P2** or **P3** to select different groups **T**, **L**, **S**, **C**, **R**, or select **E** to go back to the standard function. The control unit will reset all functions and go back to the normal status after 60 seconds which is unsed.

Press **P1** to confirm the operation, **P2** and **P3** to choose the set up, if you need to go back to the group of set up press **P2+P3**

WHEN THE CONNECTION IS FINISHED
When the connection is finished, check the motors as shown in the Par. **4.2 Function R.** Then before the memorization of the working time, set up the speed, obstacle detection and activation/ deactivation of the inputs.

1 → 18	Tension for accessories,inputs , services and safeties
19 → 22	Power supply of the motor
23 → 30	Power supply of the control unit, Battery
J12/24	Selection of the 12/24V power supply
P1 P2 P3	Buttons to reset the control unit
F1	Fuse for Transformer power supply - *1.6 A Rit.*
F2	Fuse power supply, accessories and logic - *4 A*
F3	Fuses for power supply of the motors - *8 A*

+ Antenna -1-
Common Services and Safeties -2-
Common Services and Safeties -3-
Closing limit switch 2 -4-
Opening limit switch 2 -5-
Closing limit switch 1 -6-
Opening limit switch1 -7-
Photo A -8-
Photo B -9-
Stop -10-
Start -11-
Partial opening -12-

- **Common for accessories** -13-
+ Power supply for accessories -14-
- LIGHT -15-
- TEST -16-
- LAMP OR COURTESY LIGHT -17-
- ELEC. KEY LOCK -18-
MOT 2 -19-
MOT 2 -20-
MOT 1 -21-
MOT 1 -22-

Read Paragraph 3.2 to check the right direction of the motors.

- BATTERY -23-
+ BATTERY -24-

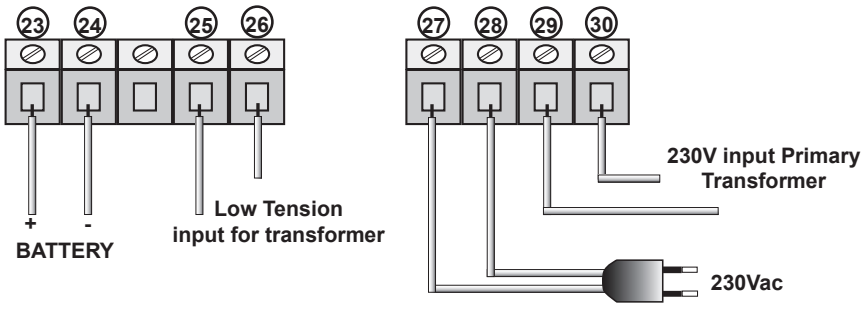
Input for LOW TENSION -25-
Input for LOW TENSION -26-

230 Vac input -27-
230 Vac input -28-
Output for power supply -29-
Output for power supply -30-

Mechanical edge: NC/8k2 -31-
Mechanical edge: NC/8k2 -32-

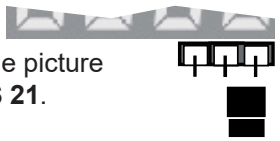
3 Installation of the control unit

3.1 Connection of the TENSION

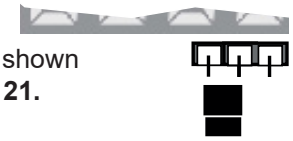


The control unit can be powered **12 Vac/24 Vac**

12 Vac:
Put the **J12/24** as in the picture
Set to **"0"** the set up **S 21**.



24 Vac:
Put the in **J12/24** as shown
Set **"1"** the set up **S 21.**

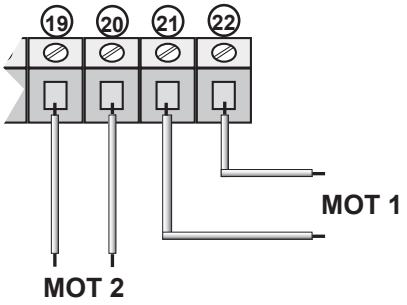


The power supply line has to be protected from a magneto-termic switch or from a couple of 5A fuses.
A differential switch is useful if it is already available in the installation.

3.2 Connections of the MOTORS

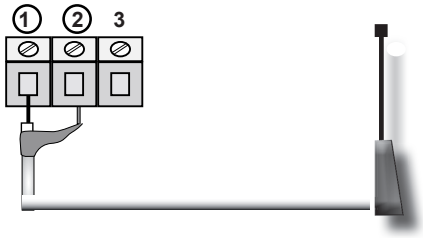
Pay attention not invert the poles OPEN and CLOSE.

When the connection is finished, in case of doubts put manually the gate in the middle and read **Paragraph 4.2** to check the right direction of the motors.

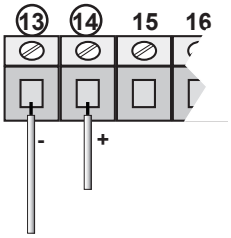


3.3 ANTENNA connections

In case of using a cable (as antenna) for the frequency 433.92mhz, you can cut at 17cm and connect it to the terminal board 1.



3.4 Power supply of the accessories

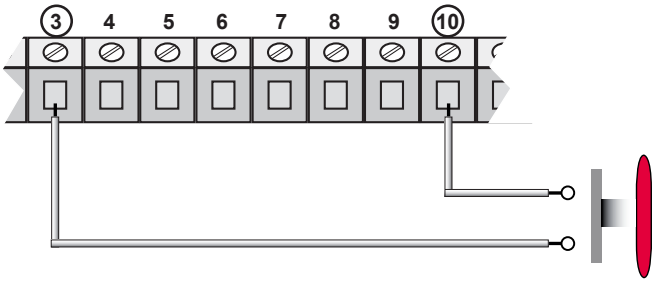


Connect the terminal board **13** and **14** to power the accessories.

The tension on top of the terminal boards is up of the transformer.

3.5 Connection of the STOP device

Connection of the **STOP** control
Button: stop the control unit until a new contro.
Switch: it stops the automation until a new control.

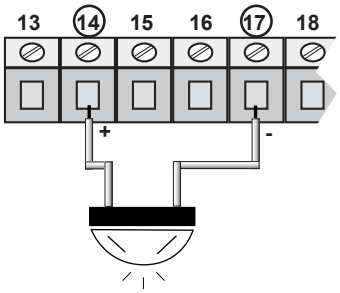


! If the input STOP is not used, put "0" in the set up S15

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.

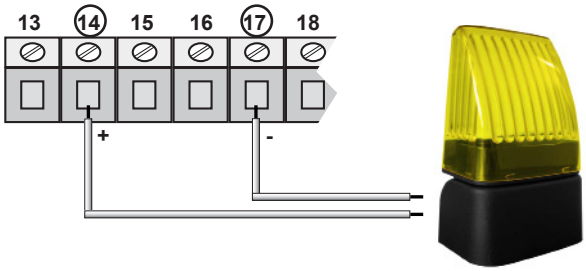
3.6 Connection of the COURTESY LIGHT

To activate the courtesy light function, as shown in the picture **S03**



Set up	Val	Description	
S 03	**1**	**Courtesy light in the LAMP output**	In the terminal board **17** and **14** tension is available up to **255s** after. *Standard value* **0s**
T 18		**Working time Courtesy light**	Can be set up from **0 to 255 s** *Standard value **120s***

3.7 Connection of the LAMP



Put the set up **S25** at **1**, if you use a lamp without flashing light, otherwise put the **S25** at **0**.

Set up	Value	Description
S 25	**1**	**Activate the Lighting**
	0	**Deactivate the lighting** *Standard*

To activate the function **"lamp during pause time"** put **S 05** at **1**, to deactivate the function put **S05** at **0**.

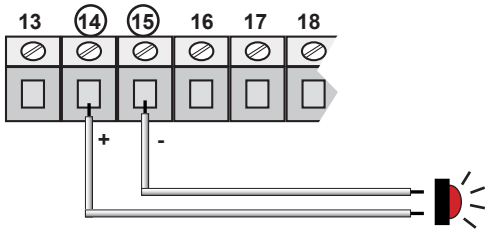
Set up	Val	Description	
S 05	**1**	**Lamp in pause time**	*The light is working in the pause time, too. (Standard value 0)*

3.8 PRE-LIGHTING

To increase or reduce pre-lighting time, put **T 15** and **T 16** as follow:

Set up	Description	
T 15	**Pre-lighting time when CLOSED**	Set up from **0 a 10 s** *Standard Value **2 s***
T 16	**Pre-lighting time when the gate is OPEN**	Set up from **0 a 10 s** *Standard value **2 s***

3.9 Connection of a 24 light when the gate is open and when it is moving



Set up	Value	Description	
S 07	**1**	**Fix light**	The Fix light indicates the gate opens.
	0	**Flashing light**	The output light is flashing *(standard version)*

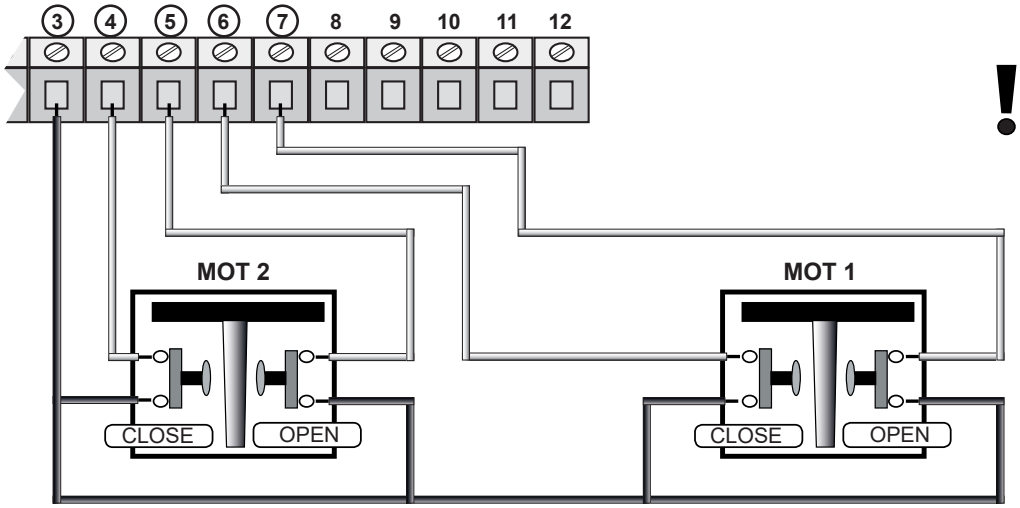
3.10 Connection of the LIMIT SWITCHES

In the picture is shown the connection of both limit switches but in this control unit you can use separately.
So you can use only OPENING limit switches or only CLOSING limit switches.

To deactivate the input LIMIT SWITCHES do as shown in the table

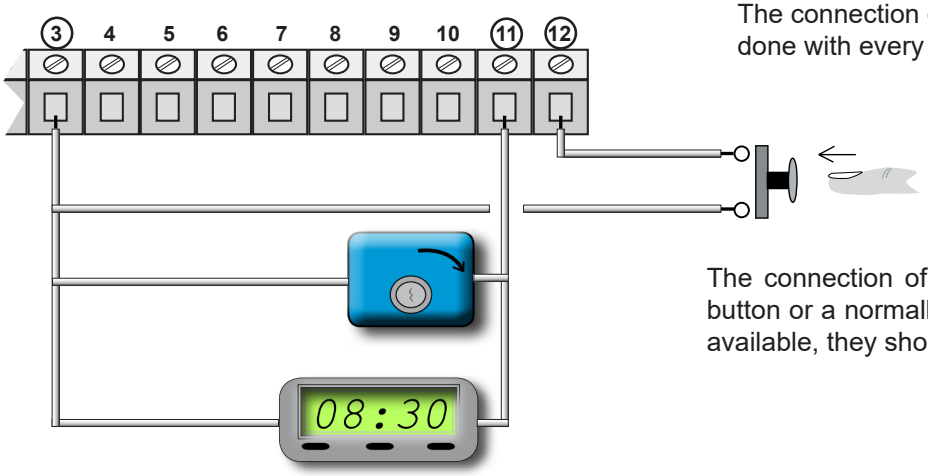
Set up	Value	Description	
S 11	**0**	**Deactivation of the input opening limit switch 1**	*Standard value 1*
S 12	**0**	**Deactivation of the input closing limit switch 1**	*Standard value 1*

Set up	Value	Description	
S 13	**0**	**Deactivation of the input opening limit switch 2**	*Standard value 1*
S 14	**0**	**Deactivation of the input closing limit switch 2**	*Standard value 1*



! The limit switches contact should be normally closed.

3.11 Connection of an OPENING CONTROL / START / PARTIAL OPENING

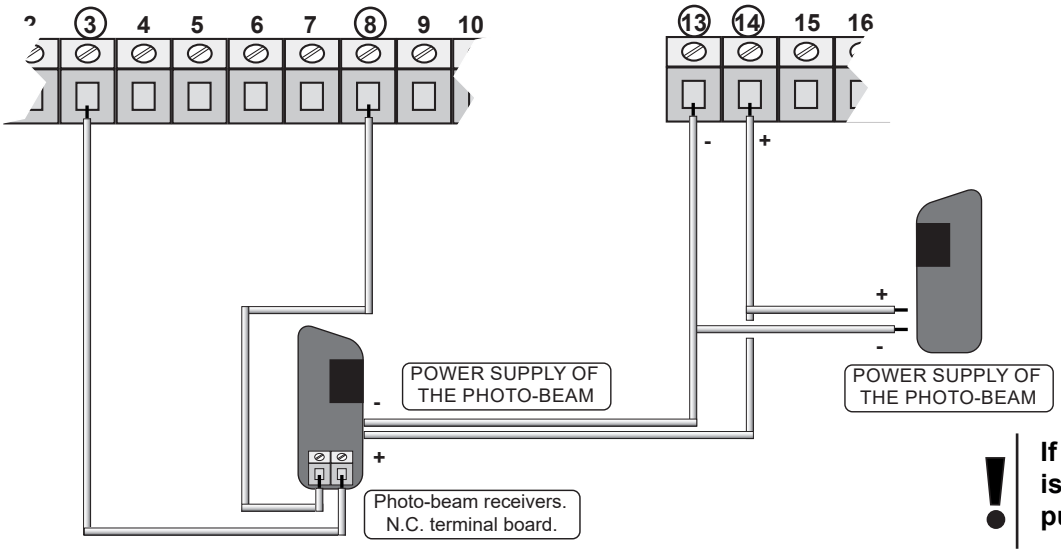


The connection of a PARTIAL OPENING can be done with every button or a normally open contact.

The connection of a START can be done with every button or a normally open contact. If more devices are available, they should be serial connected.

If you use the terminal boards no.3 and no.11 it is possible to connect a TIMER to program the opening time of the gates. The contact should be normally open and it is closed for all the time the gate is open. If the connection with the opening gates is available in the terminal board no.16, connect it in parallel.

3.12 Connection of the PHOTO A (only closing)

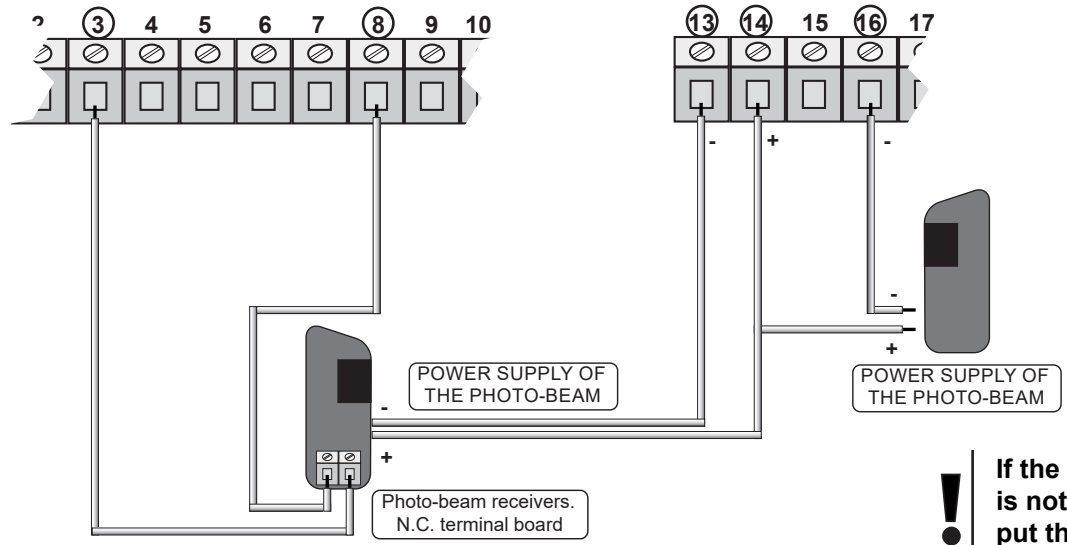


The normally closed contact of the receiver should be isolated from tension.

If you you more couples of photo-beams the connection should be serial.

If the input FOTO is not used, put the S16 at " 0"

3.13 Connection of the PHOTO-BEAM FOTO A (only closing) with PHOTO-TEST



The normally closet contact of the receiver should be isolated from tensions.

If you you more couples of photo-beams the connection should be serial.

If the input FOTO is not used, put the S16 at "0"

The PHOTO-TEST check the right working of the gate if the photo-beams are working properly. The control unit will do a test before the gate opening.

In case the photo-beams are not working properly, the lamp will be turned on and the gate is not working.

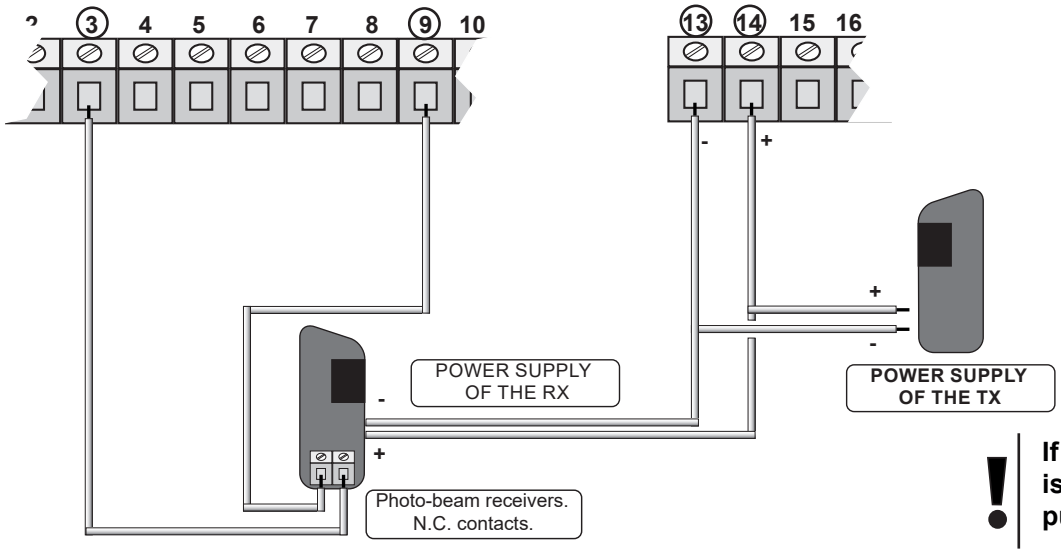
To activate the **TEST** put at **1** the **PHOTO A:**

Set up	Value	Description
S 06	**1**	**Activate the TEST output for INPUT TEST** ***(Val. Default 0)***

S 22	**1**	**To activate the TEST put at 1 the PHOTO A** ***(Val. Default 0)***

If you don't need the PHOTO-TEST, connect the photo-beams **(see Par. 3.2)** and put at **0** in the function **S22** and **S06** *(S06 should be deactivated only when other TEST are not available)*

3.14 Connection of the **PHOTO-B** (in opening and closing)

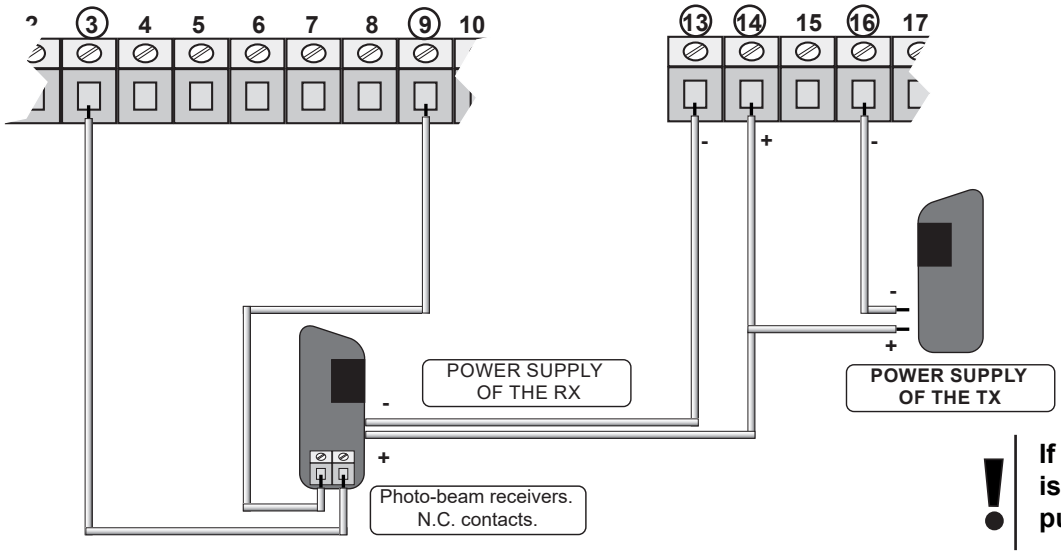


The normally closed contact of the receiver should be isolated from tensions.

If you you more couples of photo-beams the connection should be serial.

If the input PHOTO-STOP is not used, put the S17 at "0"

3.15 Connection of the **PHOTO-BEAM B** (opening and closing) with **TEST**



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

If you you more couples of photo-beams the connection should be serial.

If the input PHOTO-STOP is not used, put the S16 at "0"

The PHOTO-TEST check that the gate is working only if the photo-beams are working properly.

The control unit will do a general test before opening.
In case the photo-beams are not working properly, the signal light will turn on for 5 seconds and the gate is not working

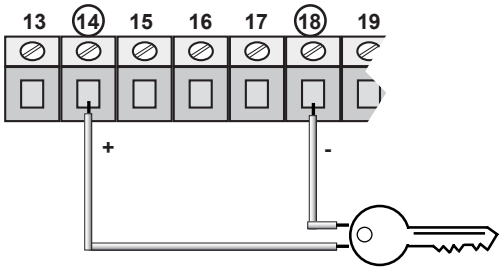
To activate the PHOTO-TEST put at **"1"** the set up of the photo-beams **PHOTO-B:**

Set up	Value	Description
S 06	**1**	**Activate the TEST output for INPUT TEST** ***(Standard Value 0)***

S 23	**1**	**Activate the input TEST for PHOTO-B** ***(Standard Value 0)***

If you want to go back to the function without PHOTO-TEST, connect the photo-beams as shown in the Paragraph **3.14** *and put the function* **S23** *and* **S06** *at* **"0"** *(deactivate the* **S06** *only when other inputs have no TEST)*

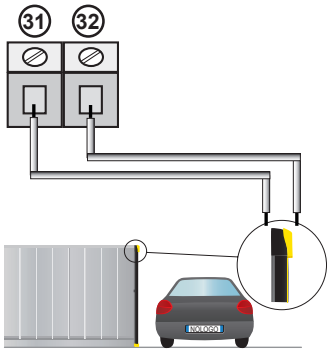
3.16 Connection of the KEY LOCK - ***NEW LOCK SYSTEM***



Here you can see the connections of the key-lock.
The function **S 26** should be programmed to "**0**":

Set up	Description
S 26	**0 - Activate the KEY LOCK** **1 - Deactivate the KEY LOCK** *(Default)*
S 28	**KEY LOCK Power:** **0 - Power Supply 12V - Power Supply 12V key lock** **1 - Power Supply 24V - Power Supply 12V key lock**

3.17 Connection of the Mechanical edge:



Connection of the ALT control
Stops the automation and activates an inversion of direction for approximately 1.5 seconds.

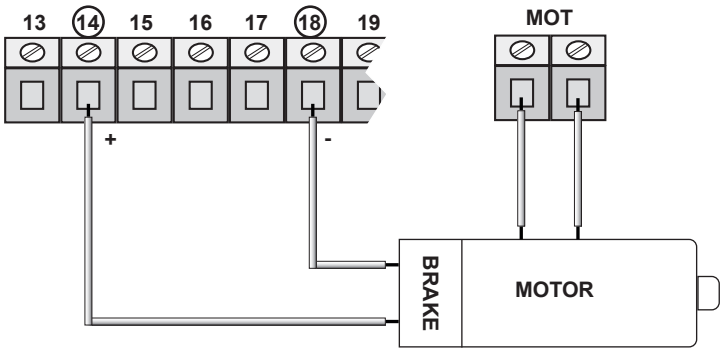
Set up	Description
S 27	**0 - Mechanical edge Deactivate** *(Default)* **1 - 8K2 contact** **2 - 2 Mechanical edge 8K2 connected in parallel** **3 - N.C. contact**

3.18 Connection of the MOTOR with ELECTRO-MAGNETIC BLOC

If the electro-magnetic block is available, go to function **S26** and put in **1** and make as follow:

Set up	Value	Description
S 26	**1**	**ELECTRO-MAGNETIC BLOC**

When this function will be activated and the motor is working, the output of the KEY-LOCK will be powered, this permet the brake and the correct working of the gate.



3.19 Check of the connections

Check:
The tension in the terminal board , if all led are turned on (Normally closed), check all securities, right direction of the gate (it opens first). When the control unit is powered, the L.E.D. (inputs) are turned on when in the input the contact is closed.

The **red l.e.d.** in the inputs **CLS2 - OLS2 - CLS1 - OLS1 - PHOTOA - PHOTOB - STOP** are always **lit on.**
The **green l.e.d.** in the inputs **START / PARTIAL OPENING** are always **turned off.**

4 Function and adjustment

Check the right function of the motors and the accessories as shown in the par. **4.2** and then, if you don't know the working time of the motors, program the speed (see **Par. 4.4**), obstacle detection (see **Par. 4.5**) and activation/deactivation of the inputs.

4.1 Function

Set up		Function	Description
S 01	**1**	**Fast reverse** ***(Standard value)***	By each control it riverse: **open-close**
	2	**Collective use**	When opening and pause time it doesn't accept any control, it re-close automatically.
	3	**Step-by-step function**	Each control it follows each: **open-stop-close-stop-open** No automatic reclosing
	4	**Step-by-step with automatic re-closing after pause time**	By each control it follows **open-stop-close-stop-open..** It recluses automatically after the pause time.
	5	**Industrial use**	The **PARTIAL OPENING** control has a closing function, too while **START** follow the logic of dip1 and dip 2
	6	**Man present function**	The **START** control opens, the **PARTIAL OPENING** closed. The motors stop after the button will be released.
S 02	**1**	**Reclosing when turning off** ***(Default 0)***	Make a complete opening and closing cycle, only in case the tension has been broken, when the gate was open.
S 04	**1**	**Passage control** ***(Default 0)***	When the photo-beams realize the passage, if **S19** has value 0, the pause time is 2sec.
S 19	**1**	**Riverse at the passage check** ***(Default 1)***	Put **S04 at 1**. When the function is activated and the gate is opening, the control unit reverse the direction of the motors and close.
S 07	**1**	**Fixed Light** ***(Default 0)***	The light is lit on when the gate is open.
S 09	**1**	**Activation of soft-start** ***(Default 0)***	The motors have minimum values until the settled values.
S 10	**1**	**ONE MOTOR function** ***(Default 0)***	If you put at 1 the S10, the control unit can synchronise the move of the motors. The working time memorization will be done only for motor no.1

4.2 Activation OF THE OUTPUTS

The control unit can activate separately the electric-lock output, lamp, Photo-test, Light, Motors, Slow down:

1	**R ...**	Press **P2** and **P3** until you reach **R...**
2	 **P1**	Keep pressed the button **P1** to activate the output
3	 **P1**	Release button **P1** to deactivate the output

R 02	Key lock		**R 06**	Mot 1 - OP		**R 10**	Mot 2 - OP
R 03	Lamp		**R 07**	Mot 1 - CL		**R 11**	Mot 2 - CL
R 04	Test		**R 08**	Mot 1 - OP - SLOW DOWN		**R 12**	Mot 2 - OP - SLOW DOWN
R 05	Light		**R 09**	Mot 1 - CL - SLOW DOWN		**R 13**	Mot 2 - CL - SLOW DOWN

4.3 Check the BATTERY TENSION

The control unit can check , with the display, the tension of the battery or if the battery is charged:

1	**R 14**	Press the **P2** and **P3** in the function **R14**
2	 **P1**	Keep pressed the button **P1** to check the tension
3	 **P1**	Release button **P1** to stop the check

4.4 SPEED and SLOW DOWN OF THE MOTOR

This operation can ad just fast the speed of the motor when opening and closing and the slow down.

Make this operation before the memorization of the working time.

Set up	Description	Values	Standard Value
L 01	**Standard speed MOT1**	from 1 to 10	10
L 02	**Speed of slow down MOT1**	from 1 to 10	5
L 03	**Standard speed MOT2**	from 1 to 10	10
L 04	**Speed of slow down MOT2**	from 1 to 10	5

4.5 Level of the MOTOR

This operation can ad just the obstacle detection.

Look on the table.

1 = Very sensitive
5 = Medium sensitive
10 = Low sensitive

If the functions **L05** and **L06** are on **"0"**, the control unit will be damaged if the motors will stop for just one second.

Set up	Description	Values	Standard Value
L 05	**Level of obstacle detection or LS MOT1**	from 1 to 10 *(0 = deactivation)*	5
L 06	**Level of obstacle detection o LS MOT2**	from 1 to 10 *(0 = deactivation)*	5
L 07	**Level of obstacle detection o LS MOT1 in case of slow downfrom**	from 1 to 10 *(0 = deactivation)*	5
L 08	**Level of obstacle detection o LS MOT2 in case of slow downfrom**	from 1 to 10 *(0 = deactivation)*	5

4.6 Logic of OBSTACLE DETECTION

If you use **S20** you can set up the obstacle detection:

Set up	Description	Values	
S 20	**Logic of obstacle detection**	**1**	*LIMIT SWITCH FUNCTION (standard function)*
		2	STOP function
		3	STOP function but before it reverse the move of the motors for 2 seconds

WARNING
Use the set up 2 and 3 only in case the limit switch is available.

5 Managing of the remote control

This receiver can manage standard codes from 12 till 64 bit and rolling codes HCS©. The first learned transmitter establish the code's type that the receiver has to manage, it means that the transmitter has to have the same code's type. The code can be from 12 to 64 bit and for rolling code HCS , the receiver will manage only the fix part of the code and not the rolling code counter. The first learned transmitter establish the code's type that the receiver has to manage, it means that the transmitter has to have the same code's type.

5.1 CANCELLATION of the MEMORY CODE

This operation cancel all previous memorized codes. To cancel one single code see next paragraph. **IT IS NECESSARY TO RESET THE MEMORY BEFORE THE MEMORIZATION OF THE FIRST REMOTE CONTROL.** The cancellation of one single code is possible when the gate is CLOSED.

To cancel the memory code, choose **C03** with button **P2** and **P3**. Then confirm the operation with **P1**. **Wait 10 seconds as indicated in the DISPLAY,** if the button **P1** will be pressed in these **10 seconds**, the operation will be cancelled.

Set up	Description
C 03	**Reset of the memory code.**

5.2 CANCELLATION of a SINGLE CODE

This operation cancell one single code in the memory.

Choose **C04** with **P2** and **P3**. The confirm with **P1.**

Press the button of the remote control. **Wait in the display " CANC"**

Set up	Description
C 04	**Cancellation of a code**

5.3 Activation of the ROLLING CODE HCS

If you choose **1** with **S08**, the control unit will accept HCS rolling code and the control unit will check the rolling code counter. The rolling code remote controls cannot be copied. If this operation is not activated, the receiver will accept only the fix part of the code.

Set up	Description	Values confirmed
S 08	**Funzione HCS Completo**	**0** deactivated *(Standard value)* **1** activated

5.4 Memorization of the remote controls

This function can memorize one or more remote controls. It is sufficient that the receiver is compatible with the most branded remote controls in the market, once you memorized the first remote control, the next codes should be of the same type. If it is a 12V remote control (for example dip-switch) it will be memorized only 12 bits remote control.

START REMOTE Control

1	**C 01**	Press **P2** and **P3** on **C01**
2	 **P1**	Confirm the operation with **P1**
3		When the remote control has been memorized, see **SUCC** on the DISPLAY.

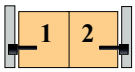
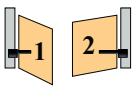
PARTIAL OPENING

1	**C 02**	Press **P2** and **P3** on **C02**
2	 **P1**	Confirm the operation with **P1**
3		Press the button of the remote control. When the remote control has been memorized, see **SUCC** on the DISPLAY

6 MEMORIZATION and PROGRAM of the WORKING TIME

This function can fastly and easily ad just the working time to open and they can be changed as shown in the next paragraph.

6.1 **WORKING** time memorization

1		The gate has to be **closed**
2	**R 01**	Press **P2** and **P3** until you see **R01**
3	 **P1**	Confirm with **P1.**
4		The gate will open and close separatelly from the motors.
5a		**If the limit switches or the obstacle detection are available,** the control unit will do a complete cycle.
5b	 **P1**	**If the limit switches are not available**, press **P1**.
7		**If the safety will not work,** repeat the operation again.

6.2 WORKING TIME MEMORIZATION with START control

To change the program of the control unit make as follow:

1	**T ...**	Press **P2** and **P3** until you will find **T...**
2	 **P1**	Press **P1** to choose the set up
3	 **P2** **P3**	Press **P2** and **P3** to choose the value
4	 **P1**	Press **P1** to confirm the operation

Set up	Description	Values confirmed	Default
T 01	Opening time MOT1	from 2 to 127,5 s	15 s
T 02	Closing time MOT 1	from 2 to 127,5 s	15 s
T 03	Opening time MOT2	from 2 to 127,5 s	15 s
T 04	Closing time MOT2	from 2 to 127,5 s	15 s
T 05	Slow down when opening MOT 1 *(in advance)*	from 2 to 127,5 s	2 s
T 06	Alow down when opening MOT 2 *(in advance)*	from 2 to 127,5 s	2 s
T 07	Slow down when closing MOT1 *(in advance)*	from 2 to 127,5 s	3 s
T 08	Slow down when closing MOT2 *(in advance)*	from 2 to 127,5 s	3 s
T 09	Opening Desplacement	from 2 to 127,5 s	2 s
T 10	Closing Desplacement	from 2 to 127,5 s	2 s
T 11	Pause time for START	from 2 to 127,5 s	10 s
T 12	Opening time MOT1 PARTIAL OPENING time	from 2 to 127,5 s	8 s
T 13	Closing time MOT1 PARTIAL OPENING time	from 2 to 127,5 s	8 s
T 14	Pause time for PARTIAL OPENING	from 2 to 127,5 s	10 s

T 17	KEY LOCK function	from 0 to 10 s	2 s
T 19	Reversing stroke *(0 for deactivation)*	from 0 to 10 s	0 s
T 20	Starting of MOT1 *(when starting, the obsctacle detection is not available)*	from 0 to 10 s	2 s
T 21	Starting of MOT2 *(when starting, the obsctacle detection is not available)*	from 2 to 10 s	2 s

7 Reset of the control unit at STANDARD VALUE

The control unit can bring back the standard value (see par. 8) to reset make as follow:

1	**S 18**	Press **P2** and **P3** until **S18**
2	 **P1**	Press **P1** to confirm the operation
3	 **P1**	To **cancel the operation** press **P1** for **10 seconds**

WARNING!
This operation cancel all benchmarks

8 TABLE INDICATING the FUNCTION of KEQS10

8.1 Set up of group “T”

SET UP	DESCRIPTION	VALUE	STANDARD VALUE	NOTE
T 01	Opening time MOT 1	from 2 to 127,5 s	15 s	
T 02	Closing time MOT 1	from 2 to 127,5 s	15 s	
T 03	Opening time MOT 2	from 2 to 127,5 s	15 s	
T 04	Closing time MOT 2	from 2 to 127,5 s	15 s	
T 05	Opening slow down MOT 1 *(in advanced)*	from 2 to 127,5 s	2 s	
T 06	Closing slow down MOT 2 *(in advanced)*	from 2 to 127,5 s	2 s	
T 07	Opening slow down MOT1 *(in advanced)*	from 2 to 127,5 s	3 s	
T 08	Closing slow down *(in advanced)*	from 2 to 127,5 s	3 s	
T 09	Opening Displacement time	from 2 to 127,5 s	2 s	
T 10	Closing displacement time	from 2 to 127,5 s	2 s	
T 11	Pause time for START control	from 2 to 127,5 s	10 s	
T 12	Opening time MOT 1 with PARTIAL OPENING	from 2 to 127,5 s	8 s	
T 13	Closing time MOT1 with PARTIAL OPENING	from 2 to 127,5 s	8 s	
T 14	PAUSE TIME for PARTIAL OPENING control	from 2 to 127,5 s	10 s	
T 15	PRE-LIGHTING time when opening	from 0 to 10 s	2 s	
T 16	PRE-LIGHTING time when open	from 0 to 10 s	2 s	
T 17	KEY LOCK	from 0 to 10 s	2 s	
T 18	COURTESY LAMP	from 2 to 127,5 s	120 s	
T 19	Reversing Stroke (0 for deactivation)	from 0 to 10 s	0 s	
T 20	STARTING time MOT 1	from 0 to 10 s	2 s	
T 21	STARTING time MOT 2	from 0 to 10 s	2 s	

8.2 Set up of group “L”

SET UP	DESCRIPTION	VALUE	STANDARD VALUE	NOTE
L 01	Standard speed of MOT1	from 0 to 10	10	
L 02	Reduced speed of MOT1	from 0 to 10	5	
L 03	Standard speed of MOT2	from 0 to 10	10	
L 04	Reduced speed of MOT2	from 0 to 10	5	
L 05	Obstacle detection or Limit Switch of MOT1	(0 deactivation) from 0 to 10	5	
L 06	Obstacle detection or Limit Switch of MOT2	(0 deactivation) from 0 to 10	5	
L 07	Obstacle detection or Limit Switch of MOT1 when slowing down	(0 deactivation) from 0 to 10	5	
L 08	Obstacle detection or Limit Switch of MOT2 when slowing down	(0 deactivation) from 0 to 10	5	

8.3 Set up of group “S”

SET UP	DESCRIPTION	VALUE	STANDARD VALUE	NOTE
S 01	Logic of the control unit: 1 - Fast reverse 2 - Collective use 3 - Single stable function 4 - Single stable with automatic re-closing after pause time 5 - Industrial use 6 - “Man Present” function	from 1 to 6	1	
S 02	Activation of AFTER BREAKING of the power supply	0 Off - 1 On	0	
S 03	Activation of COURTESY LIGHT on LAMP	0 Off - 1 On	0	
S 04	Activation of PASSAGES	0 Off - 1 On	0	
S 05	Activation of LAMP in PAUSE TIME	0 Off - 1 On	0	
S 06	Activation of TEST OUTPUT for test of the inputs *(in off INTERLOCK)*	0 Off - 1 On	0	
S 07	Activation of FIXED LIGHT	0 Off - 1 On	0	
S 08	Activation of ROLLING CODE HCS function	0 Off - 1 On	0	
S 09	Activation of SOFT START	0 Off - 1 On	0	
S 10	Activation of SINGLE MOTOR FUNCTION	0 Off - 1 On	0	
S 11	Activation of Input in Opening Limit Switch 1	0 Off - 1 On	1	
S 12	Activation of input Closing Limit Switch 1	0 Off - 1 On	1	
S 13	Activation of Input in Opening Limit Switch 2	0 Off - 1 On	1	
S 14	Activation of input Closing Limit Switch 2	0 Off - 1 On	1	
S 15	Activation of input STOP	0 Off - 1 On	1	
S 16	Activation of input PHOTO	0 Off - 1 On	1	
S 17	Activation of input PHOTO-STOP	0 Off - 1 On	1	
S 18	RESET of the set up values and brign back to the standard value			
S 19	Activation of the REVERSE in case of PASSAGE bearing (S 04 = 1)	0 Off - 1 On	1	
S 20	Logic of the Obstacle Detection: 1 - Function as limit switch 2 - Function as STOP 3 - Function as REVERSE and then STOP	from 1 to 3	1	
S 21	Select tension 0=12; 1=24V	0 12V - 1 24V	0	
S 22	Check TEST in the input CLOSING PHOTO-BEAMS	0 Off - 1 On	0	
S 23	Check on Photo-Test when CLOSING/OPENING	0 Off - 1 On	0	
S 24	Check on TEST in the input STOP	0 Off - 1 On	0	
S 25	Activate the Lighting	0 Off - 1 On	0	
S 26	Activate Electro-magnetic bloc	0 Off - 1 On	0	
S 27	SAFETY EDGE input setting: 0 - The safety edge input is disabled 1 - safety edge contact: 8K2 2 - In the case of 2 8K2 edges connected in parallel 3 - safety edge contact: NC		0	
S 28	ELECTRICAL LOCK power: 0 - With 12V lock and 12 Vac power supply 1 - With 12V lock and 24 Vac power supply		1	

8.3 Set up of group “C”

SET UP N°	DESCRIPTION
C 01	Memorization of the TX for START control
C 02	Memorization of the TX for START control
C 03	RESET of the MEMORY
C 04	CANCELLATION of a SINGLE CODE

8.4 Set up of group “R”

SET UP N°	DESCRIPTION
R 01	MEMORIZATION of the WORKING TIME of the motors
R 02	Activate the KEY LOCK until you press P1
R 03	Activate SIGNAL LIGHT until you release P1
R 04	Activate TEST until you release P1
R 05	Activate LIGHT until you release P1
R 06	Activate OPEN MOT1 until you release P1
R 07	Activate OPEN MOT1 until you release P1
R 08	Activate OPEN MOT1 when slowing down until you release P1
R 09	Activate CLOSE MOT1 when slowing down until you release P1
R 10	Activate OPEN MOT2 until you release P1
R 11	Activate CLOSE MOT2 until you release P1
R 12	Activate OPEN MOT 2 until you release P1
R 13	Activate CLOSE MOT2 until you release P1
R 14	Check the tension of the battery until you release P1

NOTE:

NOTE:

9 Dichiarazione CE di conformità

(secondo Direttiva 2006/42/CE, Allegato II, parte B)

Il sottoscritto ,
Amministratore

DICHIARA CHE:

Nome prodotto: **KEQS10**
centrale elettronica di comando
a bassa tensione

IL PRODOTTO E' CONFORME	**a quanto previsto dalla direttiva comunitaria:**
2006/42/CE	DIRETTIVA 2006/42/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 17 maggio 2006 riguardante il ravvicinamento delle legislazioni degli Stati membri relative alle macchine.

Riferimento: Allegato II, parte B (dichiarazione CE di conformità del fabbricante).

IL PRODOTTO E' CONFORME	**a quanto previsto dalle seguenti direttive comunitarie, così come modificate dalla Direttiva 2006/42/CE del consiglio del 14 ottobre 2004:**
2006/95/CE	DIRETTIVA 2006/95/CE DEL CONSIGLIO del 12 dicembre 2006 concernente il riavvicinamento delle legislazioni degli Stati membri relative al materiale elettrico destinato ad essere adoperato entro taluni limiti di tensione.

Riferimento alle norme armonizzate: EN 60335-1

2004/108/CE	DIRETTIVA 2004/108/CE DEL CONSIGLIO del 15 dicembre 2004, per il riavvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica.

Riferimento alle norme armonizzate: EN 61000-6-2 EN 61000-6-3

IL PRODOTTO E' CONFORME	**ai requisiti essenziali richiesti dall'articolo 3 dalla seguente direttiva comunitaria, per l'uso al quale i prodotti sono destinati:**
1999/5/CE	DIRETTIVA 1999/5/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 9 marzo 1999 riguardante le apparecchiature radio e le apparecchiature terminali di telecomunicazione e il reciproco riconoscimento della loro

Riferimento alle norme: ETSI EN 300 220-3 ETSI EN 301 489-1 ETSI EN 301 489-3

Come indicato dalla direttiva 2006/42/CE si ricorda che non è consentita la messa in servizio del prodotto in oggetto finché la macchina, in cui il prodotto è incorporato, non sia stata identificata e dichiarata conforme alla direttiva 2006/42/CE.

li 1 ottobre 2010
L'Amministratore

RoHS COMPLIANT 2002/95/EC

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