433.92 Radio receiver integrated with obstacle detection









ISO 9001:2008 Cert. n. 3614/2

Dry Contact -24-Dry Contact -25-

+ 5V encoder -26-

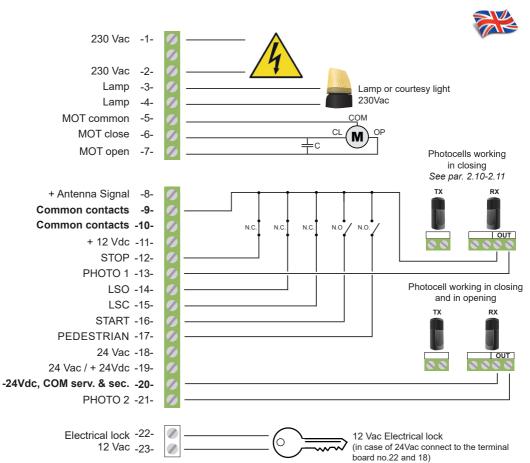
- 5V encoder -28-

Encoder Signal -27-

Quality System Certified



Radio receiver



For a correct use of the encoder.

we recommend to ready the manual.



## **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. The factory has the right to modify the product without previous notice.

# 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 undiff erentiated 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.

## 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.

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#### 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.

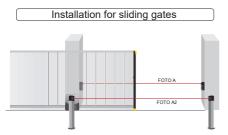
Every programming and/or every maintenance service should be done by qualified technicians.

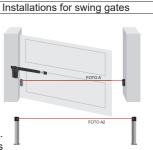
## 1.2 Field of application

The KEQS08 electronic control unit is used to control the movement of entrances, swinging gateways, rolling gates and automatic doors. It can be connected to a hydraulic or electromechanical actuator equipped with an asynchronous, single-phase motor operating at a voltage of 230 Vac.

## 1.3 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, the pair of photocells "Photo A" (considered in this control unit) has no effect during opening while it causes a total inversion during closing. "Photo A2" is connected in series to "Photo A".





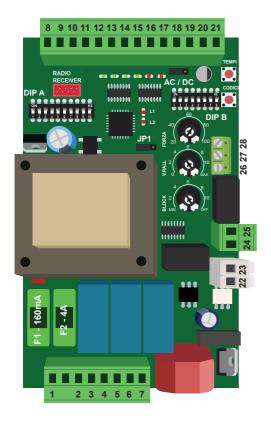
We recommend to install a STOP switch which stops immediatelly the gate. The switch has a normally close contact which opens the contact when it is working. See Par. 2.7

## 1.4 Technical description

| Dimensions                        | 87 x 150 x 45 | mm           |
|-----------------------------------|---------------|--------------|
| Weight                            | 0.6           | Kg           |
| MAX power of single motor         | 1<br>750<br>4 | HP<br>W<br>A |
| MAX power of signal light 230 Vac | 40            | W            |
| MAX consumption for dry           | 2             | A            |
| MAX consumption 24 Vac/dc         | 300           | mA           |
| MAX consumption 12 Vdc            | 50            | mA           |
| MAX consumption 12 Vac            | 1             | А            |

#### Installation

#### 2.1 Diagram of the control unit and electrical connections



| 1 → 2                 | Control unit power supply 230Vac   |
|-----------------------|--|
| 3 → 7                 | Power supply for 230Vac motor and for 230Vac Signal Light                                |
| 8 → 21                | Power supply for accessories and inputs and securities                                   |
| <b>22</b> → <b>23</b> | Electrical lock,<br>Power supply of the accessories                                      |
| <b>24</b> → <b>25</b> | "Dry" contacts for light or photocell TEST or signal light without flashing control card |
| <b>26</b> → <b>28</b> | Connection of the encoder  |
| JUMPER<br>AC/DC       | Selection of the power supply,<br>24 Vac output or dc on terminals 18-19-20              |
| JUMPER<br>JP1         | "Death man" function (Par. 3.3)  |
| DIP A                 | Set up of the logic of the control unit  |
| DIP <b>B</b>          | Exclusion of the inputs, activation of Soft-start (gradual start)                        |
| Button <b>P</b>       | Managing of the remote controlsd, force adjustment, increase of the pause time           |
|                       |  |



### Connection of the POWER SUPPLY

LINE 230 Volt Single-phase alternate current. The control unit power supply line must always be protected with a magneticthermal switch or a pair of 5A fuses.

An earth leakage circuit breaker is recommended but not necessary if already available in the site if one is already installed on the plant.



## Connection of the MOTOR Pay attention not to invert

the OPEN and CLOSE poles.

When in doubt as to the correct connection, if possible, manually position the automation at the midpoint of its stroke. Be ready to stop the system using the STOP control!

To be sure that the opening is really "opening", try to block the photocells: if the gate begins to close, the connection is incorrect and the motor OPEN and CLOSE wires must be inverted

# 2.2 Description of the electrical connection

| 230 Vac        | 1 |          | Electrical power supply 230 Vac 50 Hz       |  |
|----------------|---|----------|---|--|
|                |   |          |   |  |
| 230 Vac        | 2 |          | Electrical power supply 230 Vac 50 Hz       |  |
| Signal Light   | 3 | <b>Ø</b> | Output for 230 Vac signal                   |  |
| Signal Light 4 |   |          | or courtesy light maximum power 40W         |  |
| MOT common     | 5 |          | Output for connection of COMMON motor pole  |  |
| MOT close      | 6 |          | Output for connection of CLOSING motor pole |  |
| MOT open       | 7 |          | Output for connection of OPENING motor pole |  |

| + Antenna       | 8                  |   | Input for antenna signal  |  |
|-----------------|--------------------|---|---|--|
| Common          | 9                  |   | Common for all inputs:  |  |
| Common          | 10                 |   | services, safety devices, coaxial cable, 12 Vdc                       |  |
| + 12Vdc         | 11                 |   | Output +12 Vdc maximum current 50mA (positive)                        |  |
| Stop            | 12                 |   | STOP input  |  |
| PHOTO 1         | 13                 |   | Input for photocell 1 (intervention only when closing)                |  |
| Lso             | 14                 |   | Input for opening limit switch  |  |
| Lsc             | 15                 |   | Input for closing limit switch  |  |
| Start           | 16                 |   | Input for bistable START  |  |
| Pedestrian      | 17                 | 0 | Input for bistable partial PEDESTRIAN opening (same setting as START) |  |
| 24Vac           | 18                 |   | Output 24Vac (See Par. 2.10 & 2.11)                                   |  |
| + 24Vdc / 24Vac | 19                 |   | Output + 24Vac/dc (See Par. 2.10 & 2.11)                              |  |
| - 24Vdc         | 20                 |   | Output - 24Vdc (See Par. 2.10 & 2.11)                                 |  |
| PHOTO 2         | PHOTO 2 21 / Input |   | Input for photocell 2 (intervention in opening and closing) DIP6A     |  |

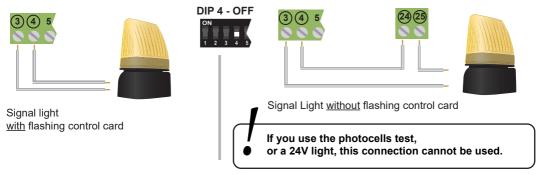
| Electrical lock | 22 | 0 Vac Electrical lock (See Par. 2.13) |
|-----------------|----|---------------------------------------|
| 12 Vac          | 23 | Out 12 Vac Electrical lock            |

| Dry contact 24 |          | "Dry" contacts for light or photocell TEST            |
|----------------|----------|---|
| Dry contact 25 | <b>Ø</b> | or flashing light without intermittence circuit board |

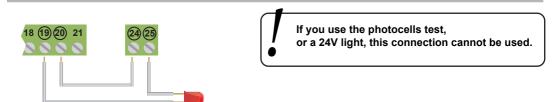
| +5 Vdc             | 26 |          | power supply of the Encoder |  |
|--------------------|----|----------|-----------------------------|--|
| Signal for encoder | 27 | <b>Ø</b> | Signal for encoder          |  |
| -5 Vdc             | 28 |          | power supply of the Encoder |  |

KEQS08 Technical Manual

#### 2.3 Connection of the 230 Vac SIGNAL LIGHT



## 2.4 Connection of one 24V LIGHT for open or moving gate

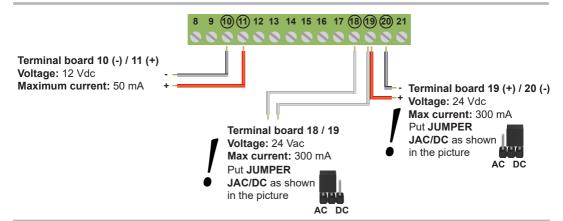


## 2.5 Connection of the COURTESY light



Terminals 3 and 4 are powered when the gate is opening up to 2 min. after gate closing

## 2.6 Power supply of the ACCESSORIES

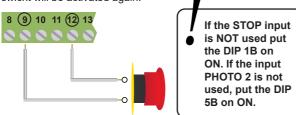


#### 2.7 Connection of the STOP and PHOTO 2

Connection of the STOP control

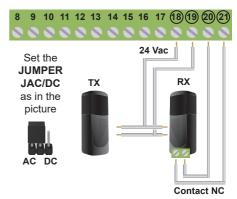
<u>Push-button:</u> stops and temporarily prevents all control unit function until it is pressed again. <u>Switch:</u> keeps the automation blocked until the

swicht will be activated again.

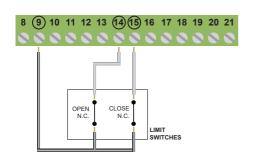


Connection of the safety devices requires the use of any push-button or N.C. (normally closed) contact. If more devices are available, connect in parallel.

Connection of the **PHOTO2** control: For operation see DIP 6 A page. 11



#### 2.8 Connection of LIMIT SWITCHES LSO and LSC

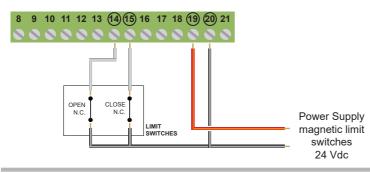


The picture shows the connection of both limit switches, however, on this control unit they can be used separately. The limit switch contacts must be N.C. (normally closed) contacts.

If the LSO or LSC inputs aren't used:

put the ON DIP3B for LSO put the ON DIP4B for LSC

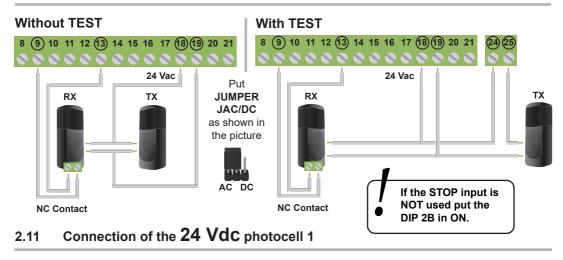
## 2.9 Connection of the MAGNETIC LIMIT SWITCHES

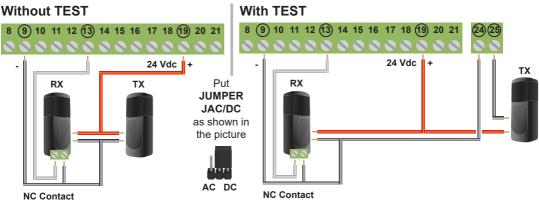




Bring the Jumper in DC

# 2.10 Connection of the 24 Vac photocell 1 only closing





The photocell TEST ensures the gate is working when the photocells are functioning properly. In fact, the control unit performs the test before each opening. if the photocells are not working properly, the signal light will be lit on for 5 seconds and the gate stops.

The control unit automatically activates the test only after the START command times have been learnt. If you wish to return to the LIGHT function on terminals 24 and 25, the photocells must be connected without the test and then you must repeat the times learning operation with the START command.

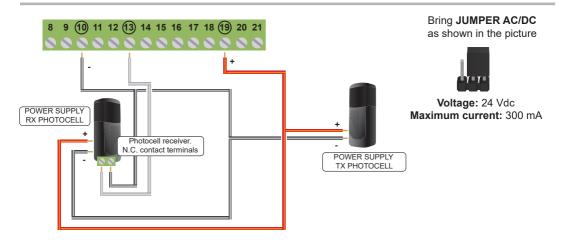
The TEST function is compatible with slow response devices (for example TRANSCEIVER) so the gate be slowly while opening. The TEST can be done also from some devices in the INPUT COSTA (safety edge) and STOP. After the TEST connections, memorize the working time for the START control during this time the control unit check the devices which are under TEST.

The photocell receiver contact must be:

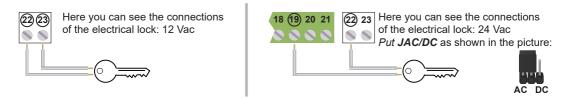
- dry (isolated from power supply voltages)
- type N.C.
   (Normally closed)

If more photocells are available, connect them in parallel, they must be connected in series.

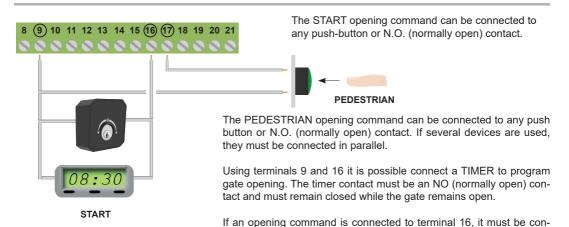
#### 2.12 Connect the 3 WIRES PHOTO 1 24 Vdc



#### 2.13 Electrical lock connection: 12 or 24 Vac



## 2.14 Connection of the "START" and "PEDESTRIAN" commands



nected in parallel.

## 2.15 Checking connections

LED L1 indicates the correct working of the control unit. It flashes each second to indicate the micro-processor is activated and waiting for commands. If it flashes softly it means that the input SAFETY EDGE is not in the standard mode.

When the control unit is powered, the warning lights, set on the inputs, are ON when the contacts on the inputs are closed toward the common:

Normally the red lights on inputs STOP - PHOTO - LSO - LSC are ON Normally the green lights on the control inputs START - PEDESTRIAN are OFF



## 3 Functions and adjustments of DIP SWITCHES

The control board has several micro-switches to activate a lot of functions in order to find suitable solutions for the user and to make the installation more safe.

## 3.1 Use of the DIP B

| ON 1 2 3 4 5 6 7 8 | 1-ON | STOP            | Exclude the input STOP   |
|--------------------|------|-----------------|--|
| ON 1 2 3 4 5 6 7 8 | 2-ON | PHOTO 13        | Exclude the input PHOTO 1  |
| ON 1 2 3 4 5 6 7 8 | 3-ON | LSO<br>14       | Exclude the input LSO  |
| ON 1 2 3 4 5 6 7 8 | 4-ON | LSC<br>15       | Exclude the input LSC  |
| ON 1 2 3 4 5 6 7 8 | 5-ON | Safety edge 8K2 | Exclude the input PHOTO 2  |
| ON 1 2 3 4 5 6 7 8 | 6-ON | Soft-Start      | The gate is opening with a gradual speed   |
| ON 1 2 3 4 5 6 7 8 | 7-ON | Industrial use  | The Partial Opening became a CLOSE COMMAND while the START command is OPEN COMMAND. DIP1A OFF and DIP2A ON -> it doesn't close automatically DIP1A ON and DIP2A ON -> it close automatically |
| ON 1 2 3 4 5 6 7 8 | 8-ON | -               | Not used   |

## 3.2 Use of the DIP A

| ON CTS  1 2 3 4 5 6 7 8 9 10 | 1-OFF<br>2-OFF | Automatic 1                                | It inverts: <b>open and close</b> . It closes automatically at the end of the pause time   |
|------------------------------|----------------|--|--|
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 1-ON<br>2-OFF  | Condominium                                | In opening and pause time doesn't accept commands. it re-closes automatically at the end of the pause time.  |
| ON CTS  1 2 3 4 5 6 7 8 9 10 | 1-OFF<br>2-ON  | Semi automatic                             | By every command <b>open-stop-close-stop-open etc.</b> It doesn't re-close automatically   |
| ON CTS                       | 1-ON<br>2-ON   | Automatic 2                                | By every command open-stop-close-stop-open etc. It recloses automatically at the end of the pause time.  |
| ON CTS                       | 3-ON           | Reversing<br>Stroke                        | It allows the electrical lock to be released   |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 4-ON           | Courtesy<br>light                          | Terminals 3 and 4 are powered when the gate is opening until 2 minutes after closing,useful incase the courtesy light needs to be powered  |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 5-ON           | Pre-lighting                               | ON: Pre-lighting 4 seconds<br>OFF: Pre-lighting deactivated  |
| ON CTS                       | 6              | Photo 2                                    | ON: In opening and closing it stops and reverses the motion for 2s after 1 minute it closes again.  OFF: During opening and closing, it stops and reopens with the obstacle removed (folding door function), re-closes after pause time.   |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 7              | Motor starting<br>3 sec after LSC          | ON: The motor runs for 3 seconds OFF: The motor runs until LSC activation  |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 8-ON           | Phototest                                  | Activates the TEST in the inputs PHOTO, STOP and SAFETY EDGE (COSTA) (when a TRANSCEIVER is availalbe, see Chap no. 7)   |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 9-ON           | Logic of the<br>obstacle<br>detection: (A) | In closing, it reverses the direction of travel up to FCA, pauses for 1 minute and then closes again. With a new START command it closes after pause time. In opening it reverses to close for 2 seconds, after one minute it closes completely. If you give a command START the gate reopens. |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 9-OFF          | Logic of the obstacle detection: (B)       | Works as limit switch  |
| ON CTS 1 2 3 4 5 6 7 8 9 10  | 10-ON          | Programming time, advanced system          | It activate the advanced working time  |

## 3.3 JP1 function: "Death man" function

|  | JP1<br>close | "Death man"<br>function | The command START open, the PARTIAL OPENING closes.  Motors stops immediatelly when the button will be released |
|--|--------------|-------------------------|---|
|--|--------------|-------------------------|---|

## 4 Using the remote controls

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. 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.

## 4.1 FULL CANCELLATION of the memory

This operation cancels all codes in the memory. You cannot cancel of a single remote control code. It is necessary to reset the memory before learning new remote controls. The cancellation of the memory (all codes) is possible only when the gate is closed.

| > codici L1 | 1 | Make sure that the gate is <b>CLOSED</b> Press and keep pressed the <b>CODICI BUTTON</b> |
|-------------|---|--|
| CODICI L1   | 2 | Wait until <b>LED L1</b> start flashing, then release it. Wait the reset of the memory.  |

#### 4.2 ROLLING CODE ACTIVATION OR DEACTIVATION

#### Fixed code MODE (L1 - one flash)

The receiver manages standard codes from 12 to 64 bit and HCS© rolling code (only the fixed part)

Rolling code MODE (L1 - flashes twice):

You can control the rolling code counter and the remote cannot be duplicated

| ↑ > L1    | 1 | Press and release the button CODICI, LED L1 will lit on. Wait until the memory has been cancelled.              |
|-----------|---|---|
| CODICI L1 | 2 | Press and release the button CODICI again, LED L1 flashes and lit on  |
| ↑ > L1    | 3 | Press the button CODICI again, LED L1 flashes twice, it activate the rolling code counter.                      |
|           | 4 | To return to the fixed code mode, repeat the operation from point no.1 in this way LED L1 will flash only once. |

## 4.3 Learning of the remote controls

The remote controls can be learnt ONLY when the gate is CLOSED.

#### **CONNECT THE ANTENNA CABLE AFTER MEMORIZATION OF THE REMOTE CONTROLS (terminals 8-9)**

|             | 1 | Make sure that the gate is <b>CLOSED</b>   |
|-------------|---|--|
| CODICI > L1 | 2 | Press and release the CODICI button, the LED L1 will stay lit ON.                                    |
| START       | 3 | Press the button of the remote control, ex: button no.1: if it is memorized <b>LED L1</b> will flash |

| CODICI > L1 | 1 | Press and release the CODICI button, the LED L1 will lit ON.                                     |
|-------------|---|--|
| codici > L1 | 2 | Press again the CODICI button, the LED L1 will flash and lit ON                                  |
| PEDESTRIAN  | 3 | Press the button of the remote control, ex:<br>button no.2: if it is memorized LED L1 will flash |

- If you need to learn a new remote control repeat the same operation.
- When you push the remote control's button and the L.E.D. codes is switched ON, it means that the remote control is not compatible
- When you push the remote control's button and the L.E.D. codes flashes slowly, it means that the memory is FULL.
- It is not possible to cancel a single code

## 5 Reset of the memory at factory settings

The reset of the control until set all parameters at factory settings. It doesn't cancel the remote controls codes, there are two different memories available:

| TEMPI CODICI | 1 | Press the buttons CODICI and TEMPI<br>LED L1 lit ON        |
|--------------|---|--|
|              | 2 | Wait 10 seconds until <b>LED L1</b> will switch <b>OFF</b> |
| TEMPI CODICI | 3 | Release the buttons CODICI and TEMPI                       |



**Technical Manual** 

## Time learning



IF YOU DON'T USE AN ENCODER: SET THE SPEED WITH THE TRIMMERS

#### 6.1 Time learning: STANDARD WAY

| 1 |         | The gate is in closed position set the control board in Semiautomatic mode (DIP 1A OFF - DIP 2A ON - DIP 7B OFF)                                     |
|---|---------|--|
| 2 | ON CTS  | Put in <b>OFF</b> the switch no. <b>10</b> of the <b>DIP A</b>   |
| 3 | TEMPI > | Push the button TEMPI * The motor OPENS  |
| 4 | 80      | Wait that the first leaf is open, if the limit switches are available read from point no. 6 otherwise press the button TEMPI to stop the first leaf. |
| 5 | Ü       | When motor stops, let the time leave until the gate should be opened (pause time)  |
| 6 | TEMPI > | Press the button <b>TEMPI (times)</b> to close. First leaf starts opening  |
| 7 |         | Wait the gate is closed,<br>Working time memorization completed  |

<sup>\*</sup> When you press button TEMPI for the first time you can use a START command from terminal no.16 or from a remote control

# 6.2 Time learning PARTIAL OPENING

|         |     | The gate is in closed position   |  |  |  |  |  |  |  |
|---------|-----|--|--|--|--|--|--|--|--|
| TEMPI   | 1   | Press and keep pressed the TIMES button till the control board starts motor in OPEN, then release the TEMPI button | Motor OPENS  |  |  |  |  |  |  |
| TEMPI   | 2   | Press the TEMPI button   | Motor STOPS  |  |  |  |  |  |  |
| A TOTAL |     | Let the pause time run for the PARTIAL OPENING   |  |  |  |  |  |  |  |
| TEMPI   | 3   | Press the TEMPI button   | Motor CLOSES   |  |  |  |  |  |  |
| TEMPI   | 4   | Push the button TEMPI (if the closing limit switches is not available)   | Motor stops. The door is closed.<br>Operation completed                        |  |  |  |  |  |  |
|         | 4 a | If the limit switch is available wait until the motor (partial opening use) stops                                  | Motor stops by closing limit switches. The door is closed. Operation completed |  |  |  |  |  |  |

# 6.3 Time learning: pause (easy way)

|        |   | The gate is in PAUSE               |  |
|--------|---|------------------------------------|--|
| TEMPI  | 1 | Press and release the TEMPI button | The L.E.D. lights for opening and closing are LIT ON |
| A TANK |   | Let the new pause time run         |  |
| TEMPI  | 2 | Press and release the TEMPI button | The gate CLOSES.  Time learning completed            |





KEQS08

6.4

# IF YOU DON'T USE AN ENCODER: SET UP THE SPEED WITH TRIMMERS

|    |            | The gate is in closed position set the control board in Semiautomatic mo (DIP 1A OFF - DIP 2A ON - DIP 7B OFF) | ode  |  |  |  |  |  |
|----|------------|--|--|--|--|--|--|--|
| 1  | ON CTS     | Put in <b>ON</b> the <b>DIP 10A</b>  | Gate is closed                                     |  |  |  |  |  |
| 2  | TEMPI >    | * Push the button <b>TEMPI</b>   | The motor OPENS                                    |  |  |  |  |  |
| 3  | TEMPI RALL | Push the button TEMPI (or START) If the slowing down is activated trimmer V RALL                               | The motor opens slowly                             |  |  |  |  |  |
| 4  | TEMPI > 50 | Push the TEMPI button (or START) (if the opening limit switches is not available).                             | Motor stops, starts the pause time                 |  |  |  |  |  |
| 5  |            | If the limit switch is available wait until the motor stops  | motor stops, the counting of the pause time starts |  |  |  |  |  |
|    | Ů          | Let the pause time run   |  |  |  |  |  |  |
| 7  | TEMPI >    | Push the TEMPI button (or START)   | The motor CLOSES                                   |  |  |  |  |  |
| 8  | TEMPI >    | Push the TEMPI button (or START) if the slowing down is activated (trimmer see V.RALL)                         | The motor closes slowly                            |  |  |  |  |  |
| 9  | TEMPI >    | Push the button TIMES (or START) if the closing limit switches no.1 is not available                           | Motor stops. Advanced learning time completed      |  |  |  |  |  |
| 10 |            | if the limit switches is available wait motor stops  | Motor stops. Advanced learning time completed      |  |  |  |  |  |

<sup>\*</sup> When you press button TEMPI for the first time you can use a START command from terminal no.16 or from a remote control

#### 7 OPERATING GUIDE FOR TEST

The TEST function is compatible with slow response devices (for example TRANSCEIVER) so when those devices are available the response time can be slower. You can test the devices in the STOP input.

Follow this procedure to know if some devices connected ot the inputs FOTO and STOP are under TEST.

#### Connect the devices under Test according to the operating guide

| ON 1 2 3 4 5 6 7 8 9 10 | 1 | When the control is switched OFF, put in OFF dip 8 of DIP A                       |  |  |  |  |  |  |  |  |
|-------------------------|---|---|--|--|--|--|--|--|--|--|
| LED                     | 2 | Power the control unit and wait the LED is flashing                               |  |  |  |  |  |  |  |  |
| ON                      | 3 | Put in ON DIP 8 of DIP A  |  |  |  |  |  |  |  |  |
| START                   | 4 | Open the gate with a START command or with the Working time learning see par. 6.1 |  |  |  |  |  |  |  |  |

The control unit detect the accessories under test and the opening manoeuvre can be delayed for a while

## Adjustment of the Trimmers



Adjust of the force of the motor from 20% up to 100%



Speed of slowing down (MINI-MUM OFF) deactivation of the slowing down. For the majority of the motors the best value is from MIN to 4. You need to adjust a speed of 1/3 of the motor speed.

To deactivate the slowing down, turn the trimmer in OFF



BLOCK

OBSTACLE DETECTION: If you turn to MIN it needs only a little bit of force to stop the motor, the more you turn the trimmer the more you need force. If you turn to OFF the function is deactivated.

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  | <br> |   |  |   | - |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|---|--|------|---|--|---|---|---|---|---|---|---|---|---|---|---|---|--|
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  |      |   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  |      |   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  |      |   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
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|   |   |   |   |   | • |   |   | • |   |   |   |   | • |   |  |  |  | • |   |   |   |  |      | • |  | • | • |   | • | • |   | • |   | • | • |   |   |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  | <br> |   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
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| • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |  |  |  | • | • | • | • |  |      | • |  | • | • | • | • | • | • | • | • | • | • | • | • |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |  |      |   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |



## **Declaration of CE conformity**

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

The undersigned, Administrator

DECLARES THAT:

Product's name: KEQS08

Single phase for 230 Vac 1 motors

#### 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:

#### 2014/35/EU

DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.

Reference to harmonized standards: EN 60335-1

#### 2014/30/EII

DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.

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

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.

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2 february 2017 the Administrator



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