QK-CE220BATRL4 CONTROL BOARD FOR 1/2 230V MOTORS

IMPORTANT NOTICE:

This user manual can be used also for the same version of control board for 110V motors. Item code of the board becomes **QK-CE110BATRL4** and: - all 230/220V within this manual to be read as 110V

- F1 fuse is 10A. F2 and F3 are 4A
- QK-CE110BATRL4 control board is equipped with a 110V transformer





433,92 MHz











V21/2019 SW:Hb2117

user many

BOARD LAYOUT



BOARD'S COMPONENTS

250 VAC power fuse 5A

Resettable fuse 24V 1.6 A

Resettable fuse 24V 0.6 A

Ground terminals

Electric-lock socket

Primary varistor

Secondary varistor

Terminal block pins

IMPORTANT

RESETTABLE FUSE

board.

F4/F5

AFTER SHORT-CIRCUIT

Turn off the control board.

Remove the short-circuit.

more. Turn on the control

Wait for 60 seconds or

Motor B protection fuse 2A

Motor A protection fuse 2A

Button A

Button B

Button C

Button D

А

В

С

D

F1

F2 F3

F4

F5 –∉

CN

V1

V2

1 to 20

ABC



INPUTS CONNECTION

EXTERNAL (CLOSING) PHOTOCELL	24VDC SUP	ТҮРЕ	P	IN	CONFIG. PARAMETER	
TRANSMITTER	0.	10	NG	х	х	
RECEIVER	ō +	10 -	N.C.	3	8	
INTERNAL (OPENING) PHOTOCELL	24VDC SUP	POWER PPLY	ТҮРЕ	PI	IN	CONFIG. PARAMETER
INTERNAL (OPENING) PHOTOCELL TRANSMITTER	24VDC SUP	POWER PPLY	ТҮРЕ	PI X	N X	

OTHER INPUTS	ТҮРЕ	P	IN	CONFIG. PARAMETER
START – OPEN ONLY – CLOSE ONLY	N.O.	1	8	ΕI
PEDESTRIAN - OPEN ONLY - CLOSE ONLY	N.O.	7	8	E 7
STOP	N.C.	2	8	ΕZ

N.C. Normally Closed

N.O.	Norma	Шy	Ор	en

230 VAC POWER SUPPLY PINS						
19	20					

OUTPUTS CONNECTION

MOTORS	OPEN PIN	COM. PIN	CLOSE PIN							
Motor A	13	14	15							
Motor B	16	17	18							
24V FLASHING LAMP (20W) PINS										

11 12

24VDC (400 mA) PINS

8 + 10 -

QK-ELOCKIN \rightarrow Optional module for 12V electric lock

QK-SMARTM → Optional module for external relays



FUNCTIONS SUMMARY



		M	otor 4	Setting			Gen	eral E	unctions						Display Reports
										פוס				DESCRIPTION	5 E Stop
DISPLAY	DEFAULT	MAX	MIN	DESCRIPTION	DISPLAY	DEFAULT	MAX	MIN	DESCRIPTION					To erase a remote control: Hold down • C	F H External photocell +
87	14	99	00	Standard working time		10	00	00	Automatic Closure Time.	r 0	1E	2	Delete	button on the selected code until the display	
	sec 7	sec	sec		F U	sec	sec	sec	To disable hold down • C					turns off	
H C	sec	sec	sec	Slowdown working time		07	Δ1	00	button until display shows DE	r []				To save a remote control key: Hold down a	
B	0.8	1.5	0.1	Start up time (cue time)		sec	sec	sec	Pedestrian time.		-			remote key. When the display shows 💷, push	
	sec	sec	sec			0	2.5	0.0	Kick back function during	ΓZ	= _	-	Save	down • C button on the control board.	
H Y	sec	sec	sec	Displacement time on closure	ľ	sec	sec	sec	closing. It can be useful when an		-	_		$r \vec{e} \rightarrow \text{Start}$	P E Pedestrian start
BS	6	10	1	Standard force		0.0	4.0	00		لكالكا	-			$\overrightarrow{P} \rightarrow \text{Pedestrian start}$	Open Only.
					r J	sec	sec	sec	Pre-blinking time	rЧ				$r \not\!$	
Hb	8	10	1	Slowdown force		NO	SI	NO	Kick back function during			- +		To erase all codes:Hold down C button until	Po Dead man Open
				Standard obstacle detection	בוש	(OFF)	(ON)	(OFF)	an electric-lock is installed.			의	Delete	display stops flashing 57	PL Dead man Close
87		99 - NO	0	threshold. During opening, for		NO	SI	SI	Stop by stop function	r 6				Programmable radio functions. Save a remote	Electric-lock command
				display shows motor A stress.		(OFF)	(ON)	(OFF)				¬	Savo	as one of following functions: Only Open P,	E O N O
				Slowdown obstacle detection	F 6	NO (OFF)	SI (ON)	NO (OFF)	Community mode		╎╵╹╴╢╴		Jave	Only Close 네브, open Dead Man 만의, close	Motor A opening or
88	NO	99 - NO	0	threshold. During opening, for		(- /	(- /	(-)	Photocells logic:	r 8				Dead Man 따느, electric lock 뜨뜨.	Closing limit switch .
	(DISABLED)			slowdown working time, the	F 8	SI	SI	NO	$51 \rightarrow$ Standard logic				Tern	ninal Block Settings	Motor B opening or
									no \rightarrow Reverse logic	DISPLAY	ΠC	●D		DESCRIPTION	Closing limit switch.
				Setting	\Box	NO (OFF)	SI	NO	Electric-lock				<u> </u>	= Disabled.	<i>R</i> b opening or closing limit
DISPLAY	DEFAULT			DESCRIPTION		(OFF)	(UN)	(OFF)	Cold winter function This				<u> 6</u> 0 :	= Start N.O.	switches.
	14	99	00			00	00	10	function is useful in countries				<u> 0 P</u> :	= Open only N.O.	Remote key is pressed
bi	sec	sec	sec	Standard working time		00	min	min	where the winter is extremely	E 1	\downarrow	\uparrow	Po :	= Close only N.O. = Dead man Open N.O.	SL Assistance request from
62	7	99	00	Slowdown working time					Cold.				PC :	= Dead man Close N.O.	Cycle counter.
	0.8	1.5	0.1		L 3	no	SI	NO	works only.				<u></u> <u></u> <u></u>	= QK-SMARTM command N.O.	DE over-voltage.
03	sec	sec	sec	Start up time (cue time)	1	no	FΩ	Δ 1	Assistance request from cycle					= Electric lock command N.O.	I E Photocells test error
 	3	99	0	Displacement time on opening			L.5	A.1	counter.				58:	= Disabled. = Stop N C	Motor A has detected
	500	300	300		L 6	x	G.9	A.0	Total working cycles counter	22	\downarrow	↑	8 =	Motor A opening and	an obstacle
00	6	10	1	Standard force		NO	SI	NO	Dhatacalla tast					closing limit switch N.O.	B Motor A is in thermal
66	8	10	1	Slowdown force		(OFF)	(ON)	(OFF)	Photocens test					Disabled.	Motor B has detected
				Standard obstacle detection	12	SI (ON)	SI (ON)	NO (OFF)	Motors thermal protection test	ER	1	\uparrow	हार हार	= External photocell N.C.	an obstacle
57	NO	99 - NO	0	threshold. During closing, for		(0.1)	(,	()			Ť			the opening even if external photocell is	ЯБ Motor B is in thermal
	(DISABLED)	55 110	U	standard working time, the										detecting an obstacle.	
				display snows motor B stress.										Disabled.	F
	NO		0	threshold. During closing, for			Cou	rtesv	unctions	EY	\downarrow	\uparrow	<u>с</u> л: ПБ:	= Internal photocell N.C. = Motor B opening and	BUTTONS
00	(DISABLED)	99 - NO	0	slowdown working time, the	DISPLAY	DISPLAY			DESCRIPTION					closing limit switch N.O.	• A Scrolls menu from BI to P2
				display shows motor B stress.				To re	store default setting hold down				00	= Disabled.	Corolle many from P2 to 81
					ØÜ	00	Set U	^р • с	button until display shows 🖃				PE :	Pedestrian N.O.	
								Whe	n a start command is received the			*		= Open only N.O. = Close only N.O.	Increases value or set (means: ON or ENABLED).
					P 2		x	cont	rol board starts an automatic		↓	Ť	Po :	= Dead man Open N.O.	Decreases value or set old
								time	S.				PC :	= Dead man Close N.O.	(means: OFF or DISABLED).
	WW	/w.qu	likoit	aly.com				·					<u> </u>	= QK-SMARTM command N.O.	
														= Electric lock command N.U.	2 di 11





INSTALLING RADIO MODULE



INPUT / OUTPUTS CONNECTIONS







The parameter EI enables (51) or disables (20) the test of photocells. Settings (4.A) and (4.C) require EI set to 20.





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GLOSSARY

Stand By	The gate is completely closed and the safety devices are unactivated. The control board is ready to start a working cycle. In this state the flashing lamp is off.
Opening	The gate is opening and the flashing lamp blinks quickly.
Pause	When the opening is finished the motors are stopped and the flashing lamp is on. After pause time has expired (FD) the gate starts closing.
closing	The gate is closing and the flashing lamp blinks slowly.
Stop opening	The gate has been stopped while it was opening. A new start command begins the closing phase. In this state the flashing lamp is off.
Stop closing	The gate has been stopped while it was closing. A new start command begins the opening phase. In this state the flashing lamp is off.
Types of Input	There are two types of input: external and remote control. The external inputs are all devices (photocells, normally closed contacts and normally open contacts) wired to the terminal blocks. Each input is programmable with a function. The safety functions match the normally closed contacts. The other functions match the normally open contacts. The safety functions are: stop , internal photocell and external photocell . The other functions are: start , pedestrian start , motor A limit switches and motor B limit switches . The functions of terminal block inputs are configurable by parameters $\boxed{E[1]}$, $\boxed{E[2]}$, $\boxed{E[3]}$, $\boxed{E[4]}$, $\boxed{E[7]}$. A remote control input is programmable as: start , stop , pedestrian start and fast closure start . The remote controls are configurable by parameters $\boxed{e[1]}$, $\boxed{e[2]}$, $\boxed{e[3]}$, $\boxed{e[4]}$. The control board doesn't distinguish between the type of input but only between the functions.
Input Is activated	An input is activated when its state changes from the standard state. For instance, a photocell is activated when the beam from the transmitter to the receiver is interrupted. While a generic push-button or a remote key is activated only when it is pushed down. All these actions are recognized by the control board which shows these changes on the display. When more inputs are activated at the same time the display shows only the most important input. The order from the most important to the least important input is: stop $[5]_{\mathcal{E}}$, internal and external photocells $[\mathcal{E}]_{\mathcal{H}}$, external photocells $[\mathcal{E}]_{\mathcal{C}}$ or $[\mathcal{E}]_{\mathcal{O}}$, internal photocells $[\mathcal{E}]_{\mathcal{O}}$, pedestrian start $[\mathcal{P}]_{\mathcal{E}}$, open $[\mathcal{O}]_{\mathcal{O}}$, close $[\mathcal{C}]_{\mathcal{O}}$, Motor A and Motor B limit switches $[\mathcal{R}]_{\mathcal{O}}$, motor A limit switch $[\mathcal{R}]_{\mathcal{O}}$, motor B limit switch $[\mathcal{D}]_{\mathcal{O}}$.
Start commands	The start commands are: start, pedestrian start, open and fast closure start. They are able to start a working cycle. The function of start commands depend on FS and FS parameters programming. To know more see FS and FS description. To know how the fast closure start command works see FY description. To know how the start command works see Standard Working Cycle. To know how the pedestrian start command works see Pedestrian Working Cycle.
Safety commands	The safety commands are: stop , internal photocell and external photocell . The stop command always stops the gate. The functions of photocells depend on FB parameter programming. To know more see FB description.
Standard working cycle	A standard working cycle begins when an input programmed as start, open or fast closure is activated and the control board is in stand by. Motor A starts opening before Motor B. $[a] \forall$ seconds later, Motor B stars opening. After the automatic closure time $[F] @$, Motor B starts closing. $[R] \forall$ seconds later, Motor A starts closing. When a standard working cycle is in progress, the pedestrian start inputs work as a start. The working cycle finishes when the control board returns to stand by. This functionality can be handled by parameters $[F] @$, $[F] \subseteq$, $[F] \subseteq$.

MOTOR A SETTINGS



Standard Working Time	Motor A opens before motor B. Motor A works for $\mathbb{B}[]$ seconds. After this time motor A starts the slowdown for $\mathbb{B}[2]$ seconds. This is for both phases: opening and closing. To disable Motor A slowdown set $\mathbb{B}[2]$ to $\mathbb{D}[2]$. $\mathbb{B}[1]$ is settable from 00 to 99 seconds. $\mathbb{B}[2]$ is settable from 0.0 to 99 seconds.
Start Up Time (Cue time)	\square is the start up time of motor A. During this time the force of the motor increasesconstantly until it reaches the maximum power and the obstacle detection sensor isdisabled. Each time the motor starts, the first \square seconds are the start up time. \square is settable from 0.1 to 1.5 seconds.
Displacement Time On Closure	Motor B begins closing RY seconds before motor A. This parameter is useful to avoid leaf overlap during the closing.
RY	명명 is settable from 00 to 99 seconds.
Standard Force	图5 is the force of motor A during the standard working time 图7.
<u> </u>	
Slowdown Force	图画 is the force of motor A during the slowdown working time 图2. 图画 is settable from 00 to 10 .
<u> </u> <i>H</i> 6]	
Standard Obstacle Detection Threshold	 During the standard working time All, when motor A stress is higher than All: If the slowdown obstacle detection threshold All and the slowdown working time All are enabled then motor A inverts its movement while the motor B stays off. If motor A was closing, it opens completely. If motor A was opening, it closes for 2 seconds then it stops. Until the control boards returns to stand by: During the opening motor B starts moving only when motor A finishes its run. During the closing motor A starts moving only when motor A finishes its run. This functionality is active once per working cycle. If an obstacle is detected more than once: motor A finishes its run. If the slowdown obstacle detection threshold All or the slowdown working time All are disabled motor A finishes its run. During the opening, for the standard working time All or the slowdown working time All are disable the obstacle detection sensor during the standard working time All or the standard working time All o
Slowdown Obstacle Detection Threshold	During the slowdown working time 𝔅, when the motor A stress is higher than ^𝔅 𝔅. • Motor A finishes its run
88	During the opening, for the slowdown working time $\square \square$, the display shows motor A stress. 00 is the minimum, 99 is the maximum. The maximum value depends on the motor and can be lower than 99 . To disable the obstacle detection sensor during the slowdown working time $\square \square$ set $\square \square$ = $\square \square$. To set $\square \square$ = $\square \square$ hold down or keep pressing button C. $\square \square$ is settable from 00 to 99 . After 99 the display shows $\square \square$.

MOTOR B SETTINGS



Slowdown Working Time	Motor B opens after motor A. Motor B works for [」] seconds. After this time motor B starts the slowdown for [」] seconds. This is for both phases: opening and closing. To disable Motor B slowdown, the parameter [」] must be set to 00. [」] is settable from 00 to 99 seconds. [」] [」] is settable from 0.0 to 99 seconds.
Start Up Time (Cue time)	b③ is the start up time of motor B. During this time the force of the motor increases constantly until it reaches the maximum power and the obstacle detection sensor is disabled. Each time the motor starts, the first b③ seconds are the start up time. b③ is settable from 0.1 to 1.5 seconds.
Displacement Time On opening	Motor A begins opening b 역 seconds before motor B. This parameter is useful to avoid leaf overlap during the closing. b 역 is settable from 00 to 99 seconds.
Standard Force	しら is the force of motor B during the standard working time しけ. しら is settable from 00 to 10
Slowdown Force	b⑤ is the force of motor B during the slowdown working time ⓑਟ. ⓑ⑤ is settable from 00 to 10
Standard Obstacle Detection Threshold	 During the standard working time b. , when motor B stress is higher than b If the slowdown obstacle detection threshold b. and the slowdown working time b. are enabled then motor B inverts its movement while the motor A stays off. If motor B was closing, it opens completely. If motor B was opening, it closes for 2 seconds then it stops. Until the control boards returns to stand by: During the opening motor B starts moving only when motor A finishes its run. During the closing motor A starts moving only when motor B finishes its run. This functionality is active once per working cycle. If an obstacle is detected more than once: motor B finishes its run. If the slowdown obstacle detection threshold b. or the slowdown working time b. are disabled motor B finishes its run. During the closing, for the standard working time b. , the display shows motor B stress. 00 is the minimum, 99 is the maximum. The maximum value depends on the motor and can be lower than 99. To disable the obstacle detection sensor during the standard working time b. set b. = .
Slowdown Obstacle Detection Threshold	 During the slowdown working time b2, when the motor B stress is higher than b8: Motor B finishes its run During the closing, for the slowdown working time b2, the display shows motor B stress. 00 is the minimum, 99 is the maximum. The maximum value depends on the motor and can be lower than 99. To disable the obstacle detection sensor during the slowdown working time b2 set b8 = no. To set b8 = no hold down or keep pressing button C. b8 is settable from 00 to 99. After 99 the display shows no.

GENERAL FUNCTIONS



Automatic Closure Time FD	After the opening the gate waits for F ^① seconds before beginning the closing. To disable the automatic closure set F ^① = S ^E . To set S ^E hold down or keep pressing button C until the display shows S ^E . When F ^① = S ^E the gate stops after the opening. The closing begins when a start command is received.							
Pedestrian time	A pedestrian command opens leaf A for EII seconds. EII is settable from 00 to BII seconds.							
Kick Back Function During Closing	When the gate is closing and the slowdown is finished, a ramp pulse is executed by motor A. This pulse is seconds long and the obstacle detection sensor is disabled for the same amount of time. After the pulse the closing phase is finished. E							
Pre-blinking Time	Before starting the motors, the flashing lar the motors start moving. FB is settable fr	Before starting the motors, the flashing lamp blinks for 토크 seconds. After this time the flashing lamp still blinks and the motors start moving. 토크 is settable from 0.0 to 4.0 seconds						
Kick Back Function During Opening	$F[\Psi] = 51 \rightarrow \text{ENABLED}$ $F[\Psi] = n \circ \rightarrow n$ Before opening motor A closes for 0.5 seconddetection is disabled. This function can be	DISABLED onds. The force of mo useful when the elec	otor A is set to maxim ctric lock is installed a	um power and the obstacle nd opening is difficult.				
Start Commands	STANDARD SETTING Fら = のの and Fら = のの	COMMUN ୮୮୮୮୮	NITY MODE	STEP-BY-STEP SETTING $F[\delta] = \bigcap o and F[S] = [S[1]$				
FIS	During the opening: The start commands stop the opening. During the closing: The start commands	During the opening: don't have any effec During the closing:T	The start commands t. The start commands	During the opening: The start commands stop the gate. During the closing: The start				
[<u>F]</u> 8]	stop the closing and begin the opening.	stop the closing and	begin the opening.	commands stop the gate.				
Photocells Logic	$f @ = [5]? \rightarrow standard MODE$ F @ = $\Box \rightarrow REVERSE MODE$ During the opening:While the internal(opening) photocell is activated the control board stops the opening. When the internal photocell is deactivated the control board continues the opening. The activation of the external(closing) photocell doesn't have any effect instead.F @ = $\Box \rightarrow REVERSE MODE$ During the opening:While the internal (opening) photocell is activated the control board stops the opening. The activation of the external (closing) photocell is activated the control board stops the closing and starts the opening. If the internal(opening) photocell is activated the control board stops the closing and waits for the opening. The opening starts only when the internal photocell is deactivated.F @ = $\Box \rightarrow REVERSE MODE$ Before the gate starts the opening phase:During the opening: if the internal (opening) photocell is activated the control board stops the closing and waits for the opening. The activated.F @ = $\Box \rightarrow REVERSE MODE$ Before the gate starts the opening phase:During the opening: opening starts the opening phase:F @ = $\Box \rightarrow REVERSE MODE$							
Electric Lock	if $E[3] = E[3]$: The opening <u>can be started</u> end of the electric lock module is	even if external photo BLED managed. The modu	le must be installed o	bstacle. n the electric-lock socket.				
Cold Winter	The cold winter function is useful in count	ries with very cold w	inters. The motors ar	e activated with the minimum				
LT	power for [4]] minutes out of 10 minutes t are activated with the minimum power, th open or in stand-by only. When [4]] is set t	to keep the control be e gate doesn't move. to 00 the function is e	oard box and the mot . The function runs w disabled. [1]] is settab	ors warm. When the motors hen the gate is completely ble from 00 to 10.				
Single Leaf Mode	$L3 = 51 \rightarrow ENABLED$ $L3 = nc$ Enable L3 for single leaf gate installations	$ ⊇ \rightarrow DISABLED s: motor A works only$	<i>I</i> .					
Assistance Request from cycle counter	LS = $\square \square$ → DISABLED When the gate has completed LS working cycles, the display shows SL. Each 20 minutes the flashing lamp is on for 1 minutes. This function is useful for programming assistance request. LS is programmable from \square . to \square . \square . The letter is the multiplier of the number A (x 1) , B (x 10) , C (x 100), D (x 1 000), E (x 10 000) , F (x 100 000) and G (x 1 000 000). In this way you can program assistance request function from: 1-9 (\square), 10-90(\square) , 100 – 900 (\square) , 1000 – 9000 (\square) , 10 000 – 90 000 (\square) , 100 000 – 900 000 (\square) , 1 000 000 – 9 000 000 (\square) working cycles.							
Working Cycle Counter 上。ら	It is the total working cycle counter. The di number: A(x1) , B (x10) , C(x100) , D(x1 000) completed 1365 working cycle then [5] sh [7].	splay shows a letter a), E(x10 000) , F (x 10 nows @.[/]. Pressing b [].[]	and a number. The let 0 000) and G (x 1 000 utton D the display sh <u>b.6</u> 6	ter is the multiplier of the 000). For instance if a gate has nows the complete value: 周.5				

RADIO FUNCTIONS



Erasing a remote key	Keen pressing A or B button until the display shows $\begin{bmatrix} 0 \end{bmatrix}$ After a few seconds the control board starts
<u>г</u> []	scanning for saved codes. Each code showed is a remote key identification number previously saved. To erase a displayed code, hold down button C until display turns off.
Saving a remote key F F F F FAST CLOSURE	A remote key is configurable as: start [1], stop [2], pedestrian [3] or fast closure [9]. Hold down or keep pressing A or B button on the control board until the display shows the chosen function [1], [2], [3] or [9]. After about one second, the display shows [1]. Hold down an unsaved remote key. The display shows [2]. To save push down the button C on the control board. After saving, the display shows the remote key identification number. The control board holds up to 99 codes. If the memory is full, the display shows [2]. • III Start The start function begins a Standard Working Cycle : Motor A starts opening before Motor B. [9] • seconds later, Motor B starts opening. After the pause [10], Motor B starts closing. [9] seconds later, Motor A starts closing. • III Start The stop function stops the gate. [9] • III Pedestrian The stop function begins a Pedestrian Working Cycle: Motor A works normally while Motor B starts closing. [9] • III Pedestrian The stop function begins a Pedestrian Working Cycle: Motor A works normally while Motor B starts closing after 5 seconds. • III Fast closure During the opening: once all photocells have been activated, both internal and external, the gate starts closing. Required settings : (1). Both Internal and external photocells must be installed. (2). The parameter [1] must be set to [1]. [1]. Both Internal and external photocells must be installed. (3). The parameter [1] must be set to [1]. [1]. The parameter [1] must be set to [2].
Erasing all remote controls	Keep pressing A or B button until the display shows 교통. After a few seconds the control board shows 교회. To erase all saved codes, hold down button C until the display stops flashing 통기 (YES).
Programmable radio functions r 8 r 7 r 8	The programmable radio functions are: open only P, close only L, dead man open P, dead man close PL, and EL electric-lock. To save see SAVING A REMOTE KEY. To set a function select D or P or B by pressing button A or B. Hold down button D. The display blinks showing D or P or B. When the display stop blinking release button D. Selecting the function using buttons C or D. The P OPEN opens the gate. Dependence closes the gate. P o/PC DEAD MAN opens/closes the gate even when the safety input contacts are open(I.E. stop input). The dead man functions work while the button of the remote is press only. ELECTRIC LOCK activates the electric-lock module by means of remote key. For instance, It may be useful when you want to unlock an electric-lock installed on a pedestrian gate beside the electric gate. (Available on the terminal block inputs, too).
	SAVING A REMOTE FROM A DISTANCE

You can add a remote key to the control board memory without opening the protective housing. You need a remote previously stored. Proceed as follows:

- 1. Open the gate (completely giving a start input).
- 2. Brake the photocell beam.
- 3. Hold down the remote key previously stored. After 5 seconds the flashing lamps blinks and the relay starts clicking.
- 4. Release the remote key. The flashing lamp gets on and the relay stops clicking.
- 5. Within 10 seconds press the new remote key. The flashing lamp blinks three times and the relay clicks three times. The remote key has been saved as **START** (



TERMINAL BLOCK SETTINGS

Each terminal block input is programmable by a configuration parameter. The configuration parameters are *E1*, *E2*, *E3*, *E4* and *E7*. *E1* configures the input 1, *E2* configures the input 2 and so on. In the table below there is a list of functions which can be assigned to each input.

VALUE	DESCRIPTION	ТҮРЕ	TERMINAL BLOCK INPUT
DISABLED	Disable the chosen input. The inputs $\boxed{E2}$, $\boxed{E3}$ and $\boxed{E4}$ have the auto-enable function : When the terminal block input is disabled and a normally closed contact is wired to the input then the control board sets that input equal to the SAFETY value. For instance, if $\boxed{E2}$ is set to $\boxed{n2}$ and a normally closed contact is wired to input 2, the control board sets $\boxed{E2}$ to $\boxed{52}$.		AVAILABLE ON ALL INPUTS
5 E STOP	The stop function stops the gate.	N.C. SAFETY	INPUT 2 Eご = 5と DEFAULT VALUE
<u>と</u> <i>吊</i> INTERNAL (OPENING) PHOTOCELL	 During the opening: while the internal (opening) photocell is activated the control board stops the opening. When the internal photocell is deactivated the control board continues the opening. During the closing: If the internal (opening) photocell is activated the control board stops the closing and waits for the opening. The opening starts only when the internal photocell is deactivated. the opening cannot be started if the internal photocell is detecting an obstacle. 	N.C. SAFETY	INPUT 4 토막 = 논席 DEFAULT VALUE
<u>と</u> EXTERNAL (CLOSING) PHOTOCELL Safer setting	 During the closing: the external (closing) photocell stops the closing and starts the opening. During the opening: the external (closing)photocell activation doesn't have any effect. the opening cannot be started if the external photocell is detecting an obstacle. 	N.C. SAFETY	INPUT 3 토덕 = 돈도 DEFAULT VALUE
上교 EXTERNAL (CLOSING) PHOTOCELL	Same like E but the opening <u>can be started</u> even if the external (closing) photocell is detecting an obstacle.	N.C.	INPUT 3 <i>E</i> ビョ と <i>d</i>
ت. Start	The start function begins a Standard Working Cycle : Motor A starts opening before Motor B. b ^{<i>Q</i>} seconds later, Motor B starts opening. After the pause FI , Motor B starts closing.	N.O.	INPUT 1 E [] = Go DEFAULT VALUE
PE PEDESTRIAN	The pedestrian function begins a Pedestrian Working Cycle : Motor A works normally while Motor B stays off.	N.O.	INPUT 7 E7 = PE DEFAULT VALUE
OP/CL OPEN/CLOSE ONLY	The open only function opens the gate. The close only functions close the gate. When the control board is in stand by state the open only function begins a Standard Working Cycle .	N.O.	INPUTS 1 and 7 <i>E</i> / = <i>OP</i> / <i>C L</i> <i>E</i> 7 = <i>OP</i> / <i>C L</i>
Po/PC DEAD MAN OPEN/CLOSE	The dead man functions allow the opening/closing of the gate even if the safety inputs are activated (I.E. stop input) and the programmed input is activated.	N.O.	INPUTS 1 and 7 <i>E</i> / = <i>oP</i> / <i>CL</i> <i>E</i> 7 = <i>oP</i> / <i>CL</i>
<u>ال</u> و QK-SMARTM	The QK – SMARTM command doesn't have any effect on the gate status. It can be used in combination with the QK-SMARTM module. For instance a light may be turned on through the key selector without activating the gate.	N.O.	INPUTS 1 and 7 <i>E (</i>) = <i>E</i> 0 <i>E</i> 7 = <i>E</i> 0
ELCTRIC-LOCK	The ELECTRIC-LOCK function activates the electric-lock with a push button wired at the terminal block input. For instance may be useful when you want unlock an electric-lock installed on a pedestrian gate beside the electric gate. (Available on remote controls, too).	N.O.	INPUTS 1 and 7 <i>E1</i> = <i>EL</i> <i>E</i> 7 = <i>EL</i>
	The motor A limit switches function manages an opening limit switch and a closing limit switch on the same terminal	N.O.	INPUT 2 <i>E E</i> = <i>R</i>
<u>ь</u> Motor в limit switches	The motor B limit switches function manages an opening limit switch and a closing limit switch on the same terminal block input.	N.O.	INPUT 4 Eこ = し

TEST



Photocells Test	$EII = DO \rightarrow DISABLED$ Each time the gate starts, the control board checks the photocells. If no errors are detected the motor can be started. Vice versa the motor cannot start and the control board display shows IE .		
Motor Thermal Test	$E2 = 577 \rightarrow ENABLED$ $E2 = n2 \rightarrow DISABLED$ Before starting a working cycle the motor is tested. When the display shows GR the motor is in thermal protection. This test may fail if the motor is badly connected. When the motor is in thermal protection, the working cycle cannot be started.		
	COURTESY FUNCTIONS		
Default Restore	To restore the factory default setting, keep pressing button A or B until the display shows \square . After a few seconds the control board shows \square . To execute hold down button C until the display shows \square . The factory default has been set and the control board state is in stand by state. This function doesn't have any effect on radio programming.		
Motors Working Time Programming	P2 is a procedure, it sets the working time parameters A1, A2, b1, b2 and E0. The procedure is is subdivided into 5 steps. They are called: A1, A2, b1, b2 and E0. In each step a parameter is programmed. During the whole programming procedure the obstacle detection sensor is disabled. To begin this procedure hold down or keep pressing button A or B until the control board display shows P2. After a few seconds the control board display shows only when the gate is in stand by . All steps are described in the table below.		
PZ	$P[2] \rightarrow \Box$ The control board is ready to start the motors working time programming. To go to $B[1]$ press any start input. $R[1]$ The control board is programming motor A standard working time $B[1]$. Motor A is opening. Motor B stays off. To go to $B[2]$ press any start input $R[2]$ The control board is programming motor A slowdown working time $B[2]$. Motor A is slowing. Motor A is slowing. Motor A is slowing. Motor B stays off. To go to $B[2]$ press any start input		
	b1 The control board is programming motor B standard working time b1. b1 Motor A stays off. Motor B is opening. To go to b2 press any start input.		
	bこThe control board is programming motor B slowdown working time bこbこMotor A stays off.Motor B is slowing.To go to 「□□ press any start input		
	FDThe control board is programming the automatic closure time FD. Motor A stays off.FDMotor B stays off. The flashing lamp is on. After a few seconds the control board display shows the counting time. To finish the programming press any start input and wait until the gate is completely closed.		

Γ



DECLARATION OF COMPLIANCE				
Manufacturer: Quiko Italy				
Sede legale e stabilimento Via Seccalegno,19 36040 Sossano (VI) Italia				
declares under his own responsibility that the product: Control board QK-CE220BATRL4				
complies with the main safety requirements issued by the following directives:				
 ✓ Radio Sets - 1999/05/EC; ✓ Low Voltage - 2006/95/EC; ✓ Electromagnetic Compatibility - 2004/108/EC 				
and any revisions thereof, and complies with the provisions that implement said directives in the National Legislation of the Country of destination where the products are to be used.				
Sossano, 18/09/2014				
II Legale Rappresentante Luca Borinato				



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