

QK-CE2204UNI

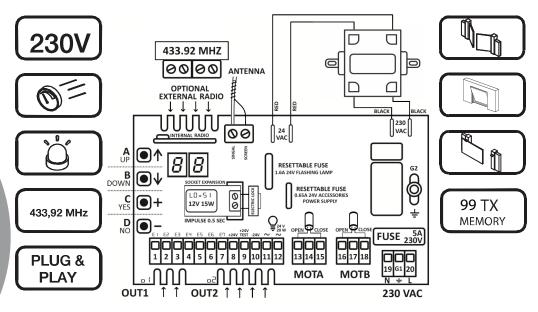
CONTROL BOARD FOR 1/2 230V MOTORS

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-CE1104UNI** and:

- all 230/220V within this manual to be read as 110V
- Fuse is 10A

- QK-CE1104UNI control board is equipped with a 110V transformer





V26/2025 SW: V26

user manyar

SAFETY INSTRUCTIONS

Important: Read carefully this manual before the installation. This manual is integral part of your product, keep it for reference.

Warnings: First of all verify that this product is suitable for the installation. Read carefully technical characteristic before the installation.

Installation of this control unit must be properly done by qualified installers, following rules and regulations of installation country.

It's mandatory to do periodic maintenance each 6 month. Maintenance or repairing must be done by qualified Technicians. Turn power off before maintenance or repairing.

This device is intended for gate automation, any other applications is strongly advised.

Not respecting of rules may cause serious damage to people, animals, things. Quiko Italy Srl discharges all responsibility for missed respect of rules.

Don't let this control unit unattended or where children can reach.

Preliminary checking: Before installing this control unit, verify that all the connected devices respect the technical characteristics mentioned in the table which follows. Verify that a working and suitable life switch is installed upline the installation. Verify that cables composing the installation, are suitable for it.

PURSUANT TO LEGISLATION FOR THE IMPLEMENTATIONS OF DIRECTIVE 2012/19/EU ON "WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)"



It is forbidden to dispose of electrical items and electronic equipment as municipal waste, as evidenced also by the symbol shown on the product and/or its packaging. These forms of waste are subject to separate collections organised by municipal authorities, or may be returned to the retailer when buying a new appliance of the same type. Improper disposal or misuse of such equipment or its component parts can damage the environment and human health due to the presence of hazardous substances. Illegal disposal of this waste is forbidden of the legislation currently in force.

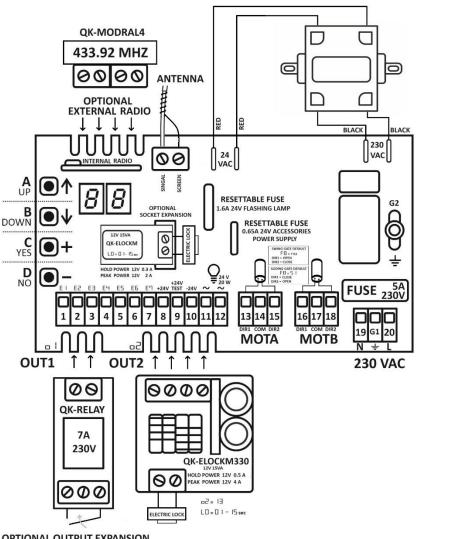


I	ľ
CONTROL BOARD LAYOUT	
CONTROL BOARD MODE 4	
HS sliding4	
Hb swing4	
HH DUAL SLIDING4	
dヒ How TO CHANGE CONTROL BOARD MODE4	
TYPICAL INSTALLATION	
SWING GATE5	
SLIDING GATE5	
DUAL SLIDING GATE5	
COMMON TERMINAL BLOCK	
CONNECTIONS 6	
FUNCTIONS SUMMARY	
WORKING TIME PROGRAMMING 8	
SAVING A REMOTE KEY AS START	
P SLIDING GATE PROGRAMMING8	
P2 SWING AND DUAL SLIDING GATE PROGRAMMING8	
WORKING TIME RANGE8	
REMOTE CONFIGURATION	
┍ ╎ ᅛ, - ြ B saving a remote кеу9	
г 🛿 ERASING A REMOTE KEY9	
¬ Б	
гБггВ HOW TO CHANGE A PROGRAMMABLE RADIO FUNCTION9	
HOW TO STORE A NEW REMOTE KEY USING A STORED REMOTE KEY9	
ာ INTERNAL OR EXTERNAL RADIO9	
REMOTE AND TERMINAL BLOCKS	
COMMANDS10	
MOTOR A SETTINGS11	
R I STANDARD WORKING TIME	
R2 SLOWDOWN WORKING TIME11	
RB START UP TIME11	
RY DISPLACEMENT TIME ON CLOSURE11	
RS STANDARD FORCE	
RE SLOWDOWN FORCE11	
R1 STANDARD OBSTACLE DETECTION THRESHOLD	
RB SLOWDOWN OBSTACLE DETECTION THRESHOLD	
RS MOTOR BRAKE	
RR FINAL RELEASE	

Rb MOTOR BRAKE FORCE	11
MOTOR B SETTINGS	12

b STANDARD WORKING TIME 12
b ² SLOWDOWN WORKING TIME12
b 3 START UP TIME 12
b ^H DISPLACEMENT TIME ON OPENING 12
b 5 Standard Force
bb SLOWDOWN FORCE
b기 STANDARD OBSTACLE DETECTION THERESHOLD 12
B SLOWDOWN OBSTACLE DETECTION THERESHOLD
FUNCTIONS13
F automatic clousure time 13
F PEDESTRIAN WORKING TIME 13
F 2 KICK BACK FUNCTION DURING CLOSING 13
F 3 PRE-BLINKING TIME
FY KICK BACK FUNCTION DURING OPENING 13
FS CONTROL BOARD'S LOGIC 13
F 7 FAST CLOUSURE DELAY
F B SAFETY DEVICE AS SLIDING 13
L D ELECTRIC LOCK
L COLD WINTER FUNCTION
L B SWAP MOTOR OUTPUT FROM A TO B 13
FUNCTIONS14
LS ASSISTANCE REQUEST FROM CYCLE COUNTER
L B WORKING CYCLE COUNTER
L 7 FLASHING LAMP MODE
L B SWAP MOTORS DIRECTION
TEST FUNCTIONS14
L PHOTOCELLS TEST 14
L ² MOTOR THERMAL TEST 14
FACTORY SETTINGS14
dD DEFAULT RESTORE
de control board mode 14
OBSTACLE PROGRAMMING14
PB OBSTACLE DETECTION THERESHOLD PROGRAMMING
HARDWARE EXPANSIONS AND OUTPUT
FUNCTIONS15
□ 1/□2 OUTPUT 1 / OUTPUT 2 15
INPUT / RADIO / ERROR LOGs
E = TERMINAL BLOCK INPUTS LOG
г = RADIO LOG16
L = ERROR LOG
DECLARATION OF CONFORMITY17

CONTROL BOARD LAYOUT



INPUTS	H S	H L	HH
	sliding	swing	dual sliding
E	Go	Go	Go
1-8	START N.O.	START N.O.	START N.O.
E2 2-8	א הם DISABLED	*n o DISABLED	LIE MOTB. CLOSING LIMIT SWITCH N.C.
E 3	ד ים	א הם	א הם
3-8	DISABLED	DISABLED	DISABLED
ЕЧ	*n o	*n o	*חם
4-8	DISABLED	DISABLED	DISABLED
E5 5-8	FC MOT A. CLOSING LIMIT SWITCH NC	DP OPEN ONLY N.O.	FC MOTA. CLOSING LIMIT SWITCH NC
E6 6-8	FR MOT A. OPENING LIMIT SWITCH NC	EL CLOSE ONLY NO	FR MOTA. OPENING LIMIT SWITCH NC
든기 7-8	PE PEDESTRIAN NO	PE PEDESTRIAN NO	UR MOTB. OPENING LIMIT SWITCH NC

*Auto-Enable → when NC contacts are wired, control board set its function to: $2-8 \rightarrow \text{STOP} 5 + 3-8 \rightarrow \text{CLOSING}$ PHOTOCELL Ld, 4-8→OP. PHOTO. LA

ACCESSC	RIES POWER	FLA	SHING LA	MP	
8		11		12	
+24 VDC		GND	~		~
	Max 400 mA	24 VAC MAX 20 W			
	MOTOR A			MOTOR B	
13	14	16	17	18	
		15		±/	
DIR1	COMMON	DIR2	DIR1	COMMON	DIR2

* Sliding mode DIR1 = CLOSE – DIR2 = OPEN (see L B Page 13)

* Swing mode DIR1 = OPEN - DIR2 = CLOSE

OPTIONAL OUTPUT EXPANSION

CONTROL BOARD MODE

The control board has three operating modes for different kinds of gate: SLIDING, SWING, or DUAL SLIDING. When powered up the display shows the operating mode set followed by the firmware version. The operating mode can also be viewed by selecting db parameter (see **HOW TO CHANGE CONTROL BOARD MODE** section).

	DISPLAY MESSAGE		GATE SYSTEM
HS	J I	26	SLIDING
sliding	firmware	firmware	
Hb	a	26	SWING
swing	firmware	firmware	
HIH	2 I	26	DUAL SLIDING
dual sliding	firmware	firmware	

HOW TO CHANGE CONTROL BOARD MODE

The control board is pre-configured with one of these settings: HS SLIDING, HB SWING, or HH DUAL SLIDING. If you need you can modify this settings by following these steps:

- 1. Hold down or keep pressing **BUTTON UP** \uparrow or **DW** \downarrow until display shows $d\mathbf{L}$.
- 2. After about one second, the display shows the current opening mode:

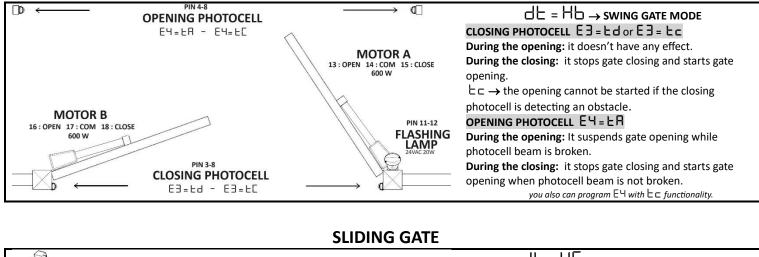
HS SLIDING HH DUAL SLIDING

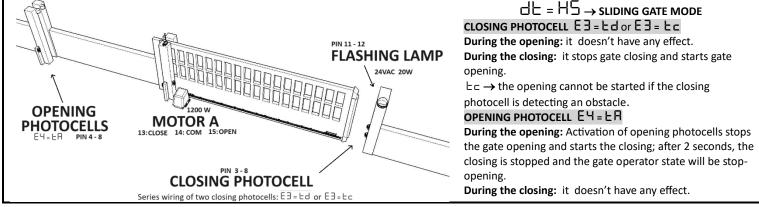
- 3. Hold down **BUTTON C** + or **D** of the control board. The display blinks showing the operating mode you are setting.
- 4. When the display stops blinking, the configuration has been set.

Hb swing

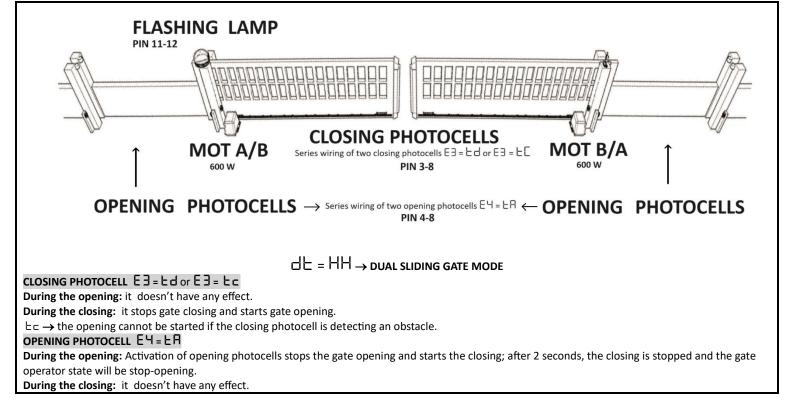
TYPICAL INSTALLATION

SWING GATE

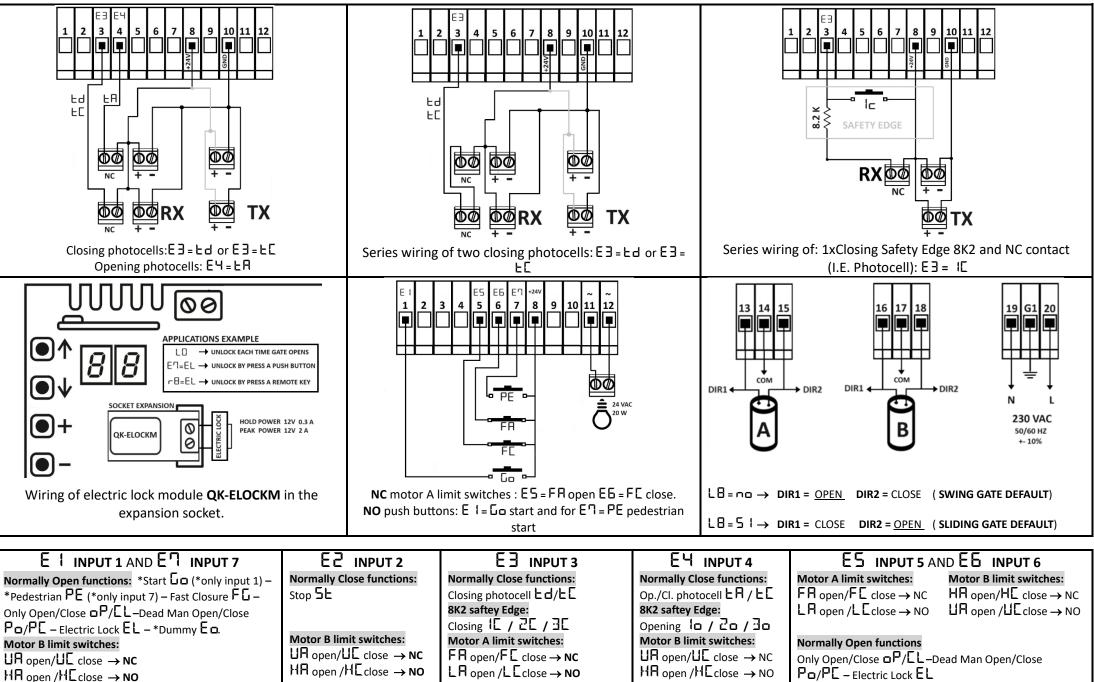




DUAL SLIDING GATE



COMMON TERMINAL BLOCK CONNECTIONS



FUNCTIONS SUMMARY

Automatic closure time

רם Pedestrian working time

FUNCTIONS

нь н5 нн

10

οп

10

menu	ΗЬ	HS	HH	MOTOR A SETTINGS	menu	ΗЬ
R (14	30	14	Standard Working time	FO	10
0.0 0. 0.0 58		۵.۲	Slowdown working time	F I	רס	
R3	0.8	0. 1	0. 1	Start up time	53	0.0
A4	06			Displacement time on closure	FB	0.0
RS	06	רס	06	Standard force	F٩	no
86	08	08	08	Slowdown force	FS	01
R٦	no	no	no	Standard obs. detection threshold	F٦	5.0
88	no	no	no	Slowdown obs. detection threshold	F8	no
89		15		Motor brake	LO	no
RR	no			Final release	LI	-0
RЬ		03		Motor brake Power	LЭ	
menu	ΗЬ	НS	HH	MOTOR B SETTINGS	LS	no
ЬΙ	14		14	Standard Working time	L6	>
62	0.n <u>0.n</u>		ם.ר	Slowdown working time	L٦	00
63	0.8		0. 1	Start up time	18	no
64	03			Displacement time on opening	F 1	no n
65	06		06	Standard force	53	51
ЪБ	08		08	Slowdown force	01	רס
ЪΠ	no		no	Standard obs. detection threshold	50	IЭ
Ъ8	no		no	Slowdown obs. detection threshold	menu	ΗЬ
menu	ΗЬ	ΗS	HH	WORKING TIME PROGRAMMING	E =	>
P (>		1 motor working time programming	Γ=	>
54	>		~	2 motors working time programming	Ε=	>
P6	\checkmark			Obstacle detection threshold	TEST	AND GA
				programming	98/9E) Mot

HS SLIDING

Hb swing

HH DOUBLE SLIDING

53	0.0	0.0	0.0	Kick-back function during closing					
F٦	0.0	0.0	0.0	Pre-blinking time					
F٩	no	no	no	Kick-back function during opening					
FS	01	01	01	Logic: Standard 🛛 I-community 📭-step by step 🕒					
F٦	5.0	5.0	5.0	Fast closure delay					
F8	по	51		Safety devices as sliding					
LO	no	no	no	Electric lock					
	no	no	no n	Cold winter function					
L3		no		Swap motor output from A to B					
LS	по	no	no	Assistance request from cycle counter					
L6	<	>	>	Working cycles counter					
L٦	00	00	00	Flashing lamp operating mode					
L8	no	51	no	Swap motors direction					
E I	no	no	no	Photocells test					
FS	51	51	51	Motors thermal protection test 5 = enabled					
o I	οn	רם	רם	Output 1 function					
50	EI	E	Ξ	Output 2 function					
menu	ΗЬ	ΗS	H	LOGS					
E=	<	>	>	Errors Log					
Γ=	~	~	~	Radio Log					
Ε=	~	~	~	Input Log					
TEST	AND GA	TE FUNC	TIONS D	ISPLAY REPORT SAFTEY DEVICE DISPLAY REPORT					
9A/9t) Moto	or A/B is	in ther	mal protection					
ባጸ/ባኒ) Moto	or A/B h	as deteo	ted an obstacle					
١Ŀ	Phote	ocells te	st error	FH Opening+Closing photocells					
SL	Assis	tant req	uest fur	nction Opening/Closing 8K2 Saftey E					
<u>S</u> E Stop									

menu	ΗЬ	HS	HH	TERMINAL BLOCKS FUNCTIONS	
E I	Go	Go	Go	Terminal block input 1	
53	no	no	UE	Terminal block input 2	
63	no	no	no	Terminal block input 3	
E٩	no	no	no	Terminal block input 4	
85	٥Ρ	۴Ľ	FE	Terminal block input 5	
86	EL	FA	FR	Terminal block input 6	
E٦	PE	PE	UA	Terminal block input 7	
menu	ΗЬ	HS	нн	REMOTE KEY CONFIGURATIONS	
ςΟ,	~	~	>	Erase a remote control key	
r +	~	~	>	Save a remote control key as START	
-2	~	~	>	Save a remote control key as STOP	
rΒ	~	~	>	Save a remote control key as PEDESTRIAN START	
L L	<	<	~	Save a remote control key as FAST CLOSURE	
nS.	~	~	~	Erase all remotes control keys.	
r 6	Po	Po	Po		
гŪ	PE	PE	PE	Save a remote as PROGRAMMABLE FUNCTION . You can change the function linked to these remotes.	
r 8.	EL	EL	EL		
гЬ.	~	~	>	Internal Radio – C External Radio Module	
menu	ΗЬ	HS	нн	CONTROL BOARD MODE	
ОЪ	ΗЬ	HS	нн	Restore factory setting selected by dL.	
dŁ	← D	BUTTON	C→	Change control board mode and set its factory setting.	

_				
	L	IMIT SWITCHES DISPLAY REPORT	START AND S	ERVICE COMMAND DISPLAY REPORT
	FE/LE	Motor A closing limit switch NC/NO	Go/PE/FC	Start/ Pedestrian / Fast Closure
	FR/LR	Motor A opening limit switch NC/NO	oP/EL	Open/Close
	ИЯ/НЯ	Motor B closing limit switch NC/NO	Po/Pc	Open/Close Dead man
	UE /HE	Motor B opening limit switch NC/NO	EL	Electrick lock
	RЬ	Motor A+B limit switches	do	Remote key dummy function
	IH	Motor A limit switches error	Eo	Terminal block dummy function
	2H Motor B limit switches error			
	HE	Motor A+B limit switches erorr		

1

www.quikoitaly.com

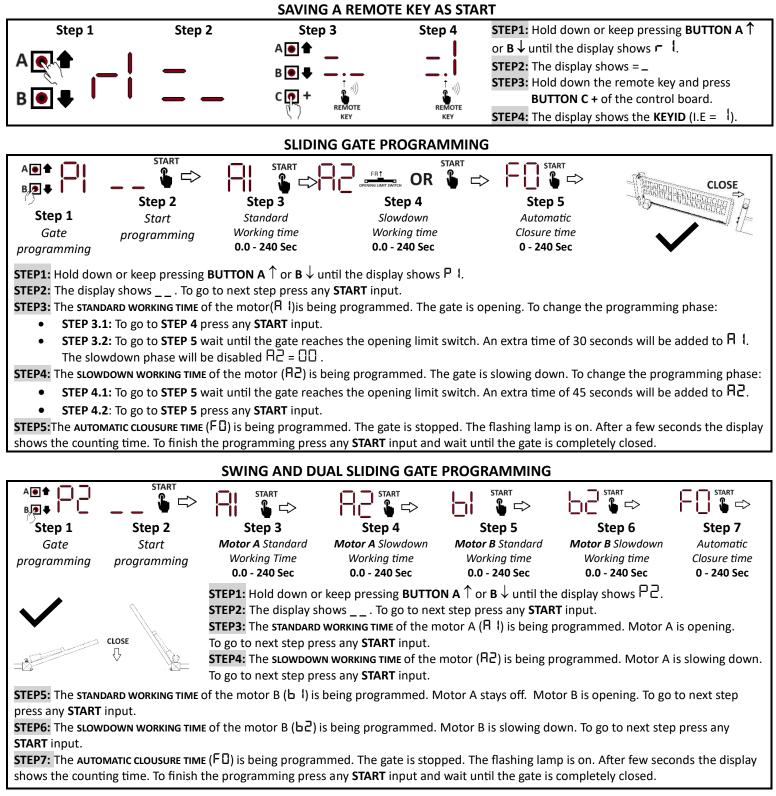
A ● ↑ ↓ B ● ↑ ↓

c 🗉 🕇

D

WORKING TIME PROGRAMMING

The motors working time programming functions are P (**SLIDING**) and P2(**SWING** or **DUAL SLIDING**). These procedures are an easy way to program the working time parameters of the control board. To ensure a proper operation, make sure the gate is closed, the terminal block inputs are connected, the motor directions are verified and that you have a **START** input before beginning. You can save a remote key as START by following these steps:

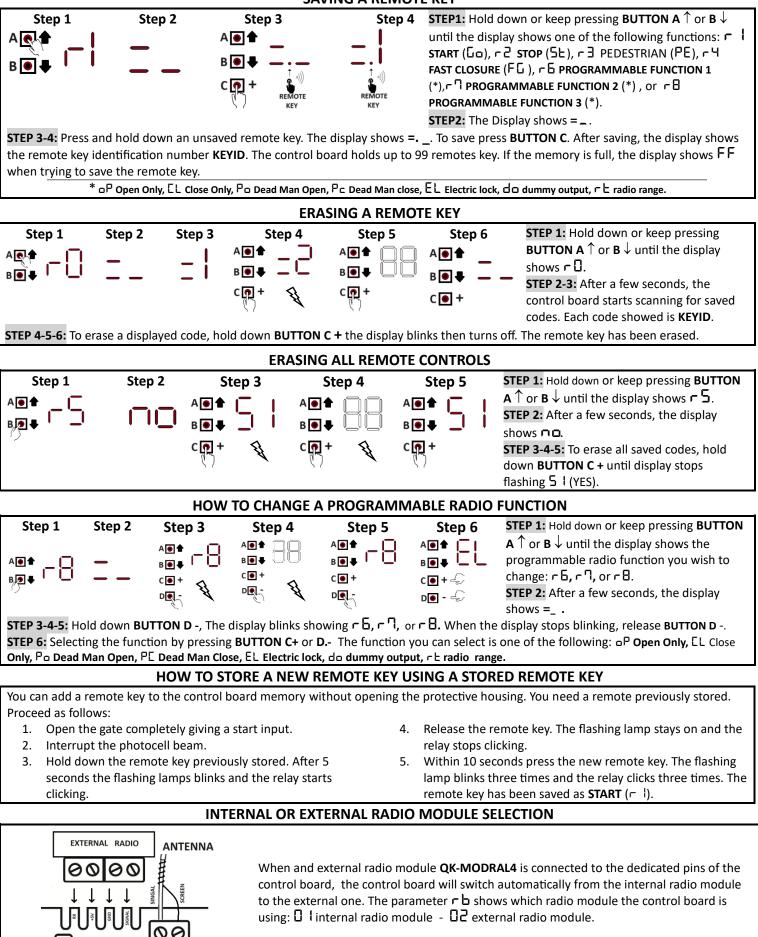


WORKING TIME RANGE

You can set A 1, A2, b 1, b2, and F0 to any value from 0.0 to 240 seconds. After programming, you can change the programmed value in the menu, only if its value is less than 100 seconds. Otherwise, you can change the parameter in the range 00 to 99 seconds, after 99, the display shows PG. This is the value programmed by the P 1 or P2 procedure. PG will be cleared or overwritten by execution of P 1 or P2 procedure again.

REMOTE CONFIGURATION

SAVING A REMOTE KEY



	REMOTE	AND TERMIN	VAL BLOC		ANDS
60	START	E I	NC	ORMALLY OPEN	REMOTE KEY STORED AS 🗂 🖁
START comm close/open t	hands inverts gate movement from he gate. This functionality depends	closing to opening. If on selected logic F5.	the gate has be	een stopped durin	op the gate. When the gate is closing, g opening/closing the START commands
FG	FAST CLOSURE	E 1 - E 7	NC	ORMALLY OPEN	REMOTE KEY STORED AS - 4
.	Swing mode dE = Hb or FB =			•	iding mode dE = H5 /HH
both openi	opening: once all photocells hav ng (E닉 = 노퉈 or 노딘) and closing (l Ints closing after 두기 seconds.				osing photocell have been activated rts closing after F기 seconds.
ΡΕ	PEDESTRIAN	Eη		ORMALLY OPEN	REMOTE KEY STORED AS 🖵 🗄
	command opens only Motor A for swing gate system you can open lea OPEN/CLOSE ONLY		I = FF, in this s	cenario motor A c	
OPEN/CLOS	ONLY commands open/close the §	gate.			
Ρο/ΡΕ	DEAD MAN OPEN/CLOSE	E :- ES - E6 -	E- NC	ORMALLY OPEN	REMOTE KEY STORED AS ヶ日 , ヶりヶ日
	AN OPEN/CLOSE functions allow the input is kept activated (I.E. a push		-	if the safety input	s are activated (I.E. stop input) and the
EL	ELECTRIC LOCK	E :- ES - E6 -	E- NC	ORMALLY OPEN	REMOTE KEY STORED AS ヶ日, ヶワヶ日
		-	rian door besid	le the electric gate	al block is pressed. For instance it may be e. When EL function is used set L $\Box = \neg \Box$. REMOTE KEY STORED AS $\neg \Box$ $\neg \Box$ $\neg \Box$
DUMMY cor expansions.	nmands (do for remotes, Eo for t	erminal block inputs) elay, wired to output	don't have any 1 (□ ¦= □᠑), by (PANSIONS ANI	effect on the gate y pressing a button D OUTPUT FUNCT	e status. They are useful for output n wired to input 7-8 ($E^{n} = E_{n}$) of terminal IONS section of the user manual.
SE	STOP	E5	NC	ORMALLY CLOSE	REMOTE KEY STORED AS - 2
Stop comma	nds stop the gate movement. RADIO RANGE TEST				REMOTE KEY STORED AS ヶ日,ヶワ,ヶ日
_	test turns on the flashing lamp whi	e remote key is press	ed. Range test	function helps voi	
FE \Fq	CLOSING PHOTOCELLS	E3_E4		ORMALLY CLOSE	
•	pening: photocells activation does				activation opens the gate completely.
	pening cannot be started if the clos	•	-	• •	ictivation opens the gate completely.
FU	OPENING PHOTOCELLS	EH		ORMALLY CLOSE	
During the o board stops control boar During the c stops the clo internal pho	Swing mode dE = Hb pening: While the opening photoco the opening. When the internal phot d continues the opening. losing: If the opening photocell is a sing and waits for the opening. The tocell is deactivated.	ell is activated the con otocell is deactivated t ctivated the control b	the and A s oard Du	ring the opening: d starts the closing start command res ring the closing:	Iual Sliding mode dE = H5 /HH The opening photocell stops the opening g. After 2 seconds the closure is stopped. umes the closing. ell does not have any effect.
FA / LA FE/LE	MOTOR A LIMIT SWITCHES OPEN N.C./N.O CLOSE N.C./N.O			ORMALLY CLOSE	
close contac	ts: FR/LR мotor A Opening limit			e motor. You can ch or A Closing limit sv	noose between normally open or normally witch N.C./N.O.
UR/HR UE/HE	MOTOR B LIMIT SWITCHES OPEN N.C./N.O CLOSE N.C./N.C				
normally clo	n of motor limit switches ends the se contacts: 비유/H유 :Motor B Ope		• • •		
E\o5\ol 1c/2c/3		E3-E	Ч 8.2	2 Kohm	
lo / 2o/ 3i	safety edge works like opening-clo \rightarrow One, two, or three 8.2 Kohm \rightarrow One, two, or three 8.2 Kohm	opening safety edges	are installed on	n terminal block 4.	

The display shows $\Box \Box / E \Gamma$ when 8k2 opening/closing safety edge is activated.

ī

	M	OTOR A SETTINGS									
RI	STANDARD WORKING TIME	From 0.0 to 240 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
Motor A works for H I seconds. During this time the motor power is A5. After this time motor A stars the slowdown for A2 seconds. This is for both phases: opening and closing. In the menu you can adjust A I in these range: from 0.0 to 9.9 seconds (step +- 0.1 sec). from 10 to 99 seconds (step +- 1.0 sec). Programming working time using P I or P2 procedure allow you to have an extended range: from 100 to 240 seconds. This range is useful in special gate systems. When this parameter has a value greater than 99, display shows PG. This special value is always accessible after value 99. It is overwritten only if a new working time programming procedure is performed.											
58	SLOWDOWN WORKING TIME	From 0.0 to 240 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
A I. To disable	down working time. During this time the slowdown phase set this parameters will be skipped during programming START UP TIME	er to $\Box \Box$. If you disabled this	parameter befor	e using P 1 or	-						
_	ne the force of the motor increases con		-	-	-						
-	sor is disabled. Each time the motor sta		•								
RY	DISPLACEMENT TIME ON CLOSURE	From 0 to 99 Sec		Swing 🗸							
Motor B begin	is closing 吊닉 seconds before motor A. '	This parameter is useful to av	oid leaf overlap o	during the clos	ing.						
AS	STANDARD FORCE	From 1 to 10 [10%step]	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
It is the force	of motor A during the standard wo	rking time A I.									
A6	SLOWDOWN FORCE	From 1 to 10 [10%step]	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
It is the force of	of motor A during the slowdown workir	ng time 82.									
	DARD OBSTACLE DETECTION THRESHOLD ndard working time F i, if motor A stru	From 00 to 99 - 🗆 🗆	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
was closure, th start command cycle the sense If the slowdow The stress of n The maximum	In obstacle detection is enabled or limit the gate opens completely. If the direction d will restart the closing. This functiona or works as a limit switch and finishes t in obstacle detection is disabled and limit notor A is showed as a number by the c value depends on the motor and can be thing time \mathbb{R} 1, set $\mathbb{R}^n = n\mathbf{e}$. To set $\mathbb{R}^n = \mathbf{r}$	on was opening, the gate clos lity is active 3 times per work he working phase: from Oper <i>nit switches are not installed:</i> lisplay during the opening ph pe lower than 99. To disable t	es for 2 seconds. ing cycle. For add ning to Pause, fro then motor A co ase. 00 is the mir the obstacle dete	After this time ditional times of m Closing to S mplete its wor himum, 99 is th	e, it stops. A during the tand by. king phase. ne maximum.						
	DOWN OBSTACLE DETECTION THRESHOLD	From 00 to 99 - 🗅 🗅	Sliding 🗸	Swing 🗸	Dual Sliding 🗸						
If the limit swi If the limit swi During the ope maximum. The	wdown working time R2, if the motor tches are installed: the motor reverses tches are not installed: the motor ends ening, for the slowdown working time R e maximum value depends on the moto wdown working time R2, set RB = no.	its direction (as during standa its working phase and stops. 72, the display shows motor or and can be lower than 99.	ard obs. det.) for A stress. 00 is the To disable the obs	a maximum of e minimum, 99 stacle detectio	is the						
A9	MOTOR BRAKE	From 00 to 99 centiseconds	Sliding 🗸								
	n centiseconds. Useful to avoid gate get nds). To set 🗚 = ם hold down or keep	-	motor brake is se	ettable from n	disabled) to						
AA	FINAL RELEASE	From 00 to 99 centiseconds		Swing 🗸							
only when mo obstacle detec	s for RR centiseconds at the end of clo tor A finishes the closing phase and afte tion thresholds must be enabled.	•	•								
AP	MOTOR BRAKE POWER	From 1 to 10 [10%step]	Sliding 🗸								
	ke power during the braking time is pro y when reaching the limit switches. Rb function L 3.										

MOTOR B SETTINGS From 0.0 to 240 Sec Ь (STANDARD WORKING TIME Swing 🗸 Dual Sliding 🗸 Motor B opens after motor A. Motor B works for $b \downarrow$ seconds. After this time motor B starts the slowdown for $b \supseteq$ seconds. This is for both phases: opening and closing. In the menu you can adjust **b** in these range: from 0.0 to 9.9 seconds (step +- 0.1 sec). from 10 to 99 seconds (step +- 1.0 sec). Programming working time using P 1 or P2 procedure allow you to have an extended range: from 100 to 240 seconds. This range is useful in special gate system. When this parameter has a value greater than 99, display shows PL. This special value is always accessible after value 99. It is overwritten only if a new working time programming procedure is performed. Ь2 **SLOWDOWN WORKING TIME** From 0.0 to 240 Sec Swing 🗸 Dual Sliding 🗸 b^2 is the slowdown working time. During this time the motor force is b^2 . You can program this parameter in the same range of b |. To disable the slowdown phase set this parameter to $\Omega\Omega$. If you disabled this parameter before using P | or P2 procedure, the linked phase will be skipped during programming, allowing you to program only STANDARD WORKING TIME. ЬЗ **START UP TIME** From 0.0 to 1.5 Sec Swing 🗸 Dual Sliding 🗸 During this time the force of the motor increases constantly until it reaches the maximum power. During this phase the obstacle detection sensor is disabled. Each time the motor starts, the first $b\exists$ seconds are the start-up time. **DISPLACEMENT TIME ON OPENING** From 0 to 99 Sec ЬЧ Swing 🗸 **Motor B** begins opening b⁴ seconds before motor A. This parameter is useful to avoid leaf overlap during the opening. 65 **STANDARD FORCE** Dual Sliding From 1 to 10 [10%step] Swing It is the force of **motor B** during the standard working time **b** 1. **SLOWDOWN FORCE** From 1 to 10 [10%step] Dual Sliding ЬБ Swing It is the force of **motor B** during the slowdown working time b^2 . ЬΠ STANDARD OBSTACLE DETECTION THERESHOLD From 00 to 99 - 🗆 🗆 Swing 🗸 Dual Sliding During the standard working time b 1, when motor B stress is higher than b^{-1} , the motor behaves in 2 different ways depending if the slowdown obstacle detection is enabled or not and if limit switches are installed: If the slowdown obstacle detection is enabled or limit switches are installed: the motor reverses its direction. If the direction was closure, the gate opens completely. If the direction was opening, the gate closes for 2 seconds. After this time, it stops. A start command will restart the closing. This functionality is active 3 times per working cycle. For additional times during the cycle the sensor works as a limit switch and finishes the working phase: from Opening to Pause, from Closing to Stand by. If the slowdown obstacle detection is disabled and limit switches are not installed: then **motor B** finishes its run. The stress of motor B is showed as a number by the display during the closing phase. 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** 1 set **b** Π = **na**. To set **b** Π = **na** hold down or keep pressing **button C**. **bB** SLOWDOWN OBSTACLE DETECTION THERESHOLD From 00 to 99 - **na**

SLOWDOWN OBSTACLE DETECTION THERESHOLD From 00 to 99 - n a Swing ✓ Dual Sliding ✓

During the **slowdown working time** b a, when the **motor B stress** is higher than b a, the motor behaves as follows: If the limit switches are installed: the motor reverses its direction (as during standard obs. det.) for a maximum of 3 times. If the limit switches are not installed: the motor ends its working phase and stops.

During the closing, for the slowdown working time b^2 , 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 b^2 set $b^2 = n^2$. To set $b^2 = n^2$ hold down or keep pressing button C.

FUNCTIONS

FO	AUTOMATIC CLOSURE TIME	From 0.0	to 240 Sec	Sliding	\checkmark	Swing	\checkmark	Dual Sliding 🗸
After the op	ening the gate waits for FO second	s before beginning the clo	osure. To disable the	automa	tic closure	e set FO	l = 5£. 1	o set SE hold
command is shows P댭. If	p pressing button C until the display received. You can program a time h t is the value has been programmed	igher than 99 seconds us using procedures P 1 or	ing procedures P 1 c P2. The automatic o	or P2. In closure ti	this case a ime can b	after val	ue 99, th	ie display
F {	PEDESTRIAN WORKING TIME		99 [sec] - FF	Sliding		Swing		Dual Sliding 🗸
and it is exe	ian commands (r ∃ or E ¶ = PE) op cuted during the closing phase. If yc g Button C until the display shows f	u wish to completely ope	en motor A set F I to	o FF. Thi	s can be a	chieved	by hold	ing down or
	KICK BACK FUNCTION DURING CLO		to 2.5 [sec]	Sliding		Swing		
detection se	ate is closing and the slowdown is finns in the same amount of		-			econds	ong and	the obstacle
FB	PRE-BLINKING TIME		to 4.0 [sec]	Sliding		Swing		Dual Sliding 🗸
Before starti moving.	ng the motors, the flashing lamp bli	nks for F∃ seconds. After	r this time the flashi	ng lamp	keeps blir	nking an	d the mo	otors start
FY K	KICK BACK FUNCTION DURING OPEI	NING 5 lenabled	/ 🗖 🛛 disabled	Sliding	\checkmark	Swing	~	
-	ing motor A closes for 0.5 seconds. be useful when the electric lock is			er and th	ne obstacl	e detect	tion is di	sabled. This
FS	CONTROL BOARD'S LOGIC		OMMUNITY – STEP ' STEP	Sliding	\checkmark	Swing	~	Dual Sliding 🗸
	I STANDARD MODE	02 COMMU	INITY MODE				BY STEP I	
		Opening: the start commands o		effect				stop the gate. top the gate.
F٦	FAST CLOSURE DELAY	From 1.5	5 to 5.0 sec	Sliding		Swing		Dual Sliding 🗸
	SWING MODE d는 = Hb		-	-	5 AND DU	-		
opening (w terminal bl The fast clo	opening: once all photocells have rired to terminal block input 4) an ock input 3), the gate starts closi osure is allowed only if gate has b ction by remote or by terminal b	nd closing (wired to ng after Fŋ seconds. peen started by a fast	During the opening block input 3), ha after Fn seconds. been started by a terminal blocks.	ave bee The fas	n activate t closure	ed, the is allov	gate sta ved only	rts closing / if gate has
F8	SAFETY DEVICES AS SLIDING	5 lenabled	/ 🗖 🖸 disabled	Sliding	\checkmark	Swing	\checkmark	
	F8 = 5 + Sliding mode			F8 =	no Swin	g mode		
and starts th gate operato devices does Closing: Acti starts the op any effect.	tivation of opening safety devices store closing; after 2 seconds, the closin or state will be stop-opening; activat sn't have any effect. ivation of closing safety devices stop pening; activation of opening safety	ng is stopped and the tion of closing safety as the gate closing and devices doesn't have	Opening: Activation opening; when the continues the oper have any effect. Closing: Activation and starts the oper doesn't have any effect.	n of open safety d ning; acti of closin ning; acti ffect.	ning safet evices are vation of g safety c vation of	y device deactiv closing s levices s opening	rated the safety de tops the safety d	gate vices don't gate closing evices
_	DPENING SAFETY DEVICE → photocell L R or ELECTRIC LOCK		osing safety device – abled) to 99 sec	Photocel Sliding		safety edg Swing		∃∟ Dual Sliding ✓
LO	ELECTRIC LOCK		sets the hold time of	-		-		-
		expansion mo 15). When QI control board enabled. Each lock for L D so the electric lo You can use t	sets the hold time of odules QK-ELOCKM K-ELOCKM module i d and L ¹ is set from h time the gate oper econds. When the g ock and releases it, e the module for othe and see EL function	330 / QK s installe l D I to S ns, QK-EI ate chan even if L r applica	-RELAY (s ed on the 19, the ga LOCKM un ges state, 0 seconds tions (I.E.	ee funct expansion te elect nlocks an QK-ELC s has no	tion a2 = on socke ric unloc nd holds OCKM sto t expirec	I∃ at page t of the k function is the electric ops unlocking I.
LI	COLD WINTER FUNCTION		no to 10	Sliding		Swing		Dual Sliding 🗸
10 minutes t	nter function is useful in countries w to keep the control board box and th	ne motor warm. When th	e motor is activated	with the	e minimur	n power	, the gat	
	unction runs when the gate is comp					non is di	sabled.	
L3	SWAP MOTOR OUTPUT FROM A T	UB ⊐ienabled	/ 🗆 🗆 disabled	Sliding	~			

SWAP MOTOR OUTPUT FROM A TO B L3 5 lenabled/ ㅁㅁ disabled

In a sliding gate, dE = HS, you can swap the motor output from motor A to B by setting LB = SI. Once enabled, the motor settings will still be parameters from RI to RB. This function is useful in case of motor A output terminal failure.

FUNCTIONS

		lonenono				
LS ASSIS	STANCE REQUEST FROM CYCLE COU	JNTER	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
flashing lamp G.9 . The letter 000 000) . In th	is on for 1 minutes. This functio is the multiplier of the number his way you can program assista	ate has completed L 5 working cycles n is useful for programming assistand 用 (x 1) , 占 (x 10) , 匚 (x 100), 너 (x 1 0 nce request function from: 1-9 (用), 1 00 000 – 9 000 000 (匚) working cycle	ce request. L5 is 00) , E (x 10 000) 0- 90(b) , 100 – 9	programmabl , F (x 100 00(900 (E) , 1000	e from Ħ. I to D) and ⊑ (x 1 - 9000 (៨) , 10	
1) Set L 5 = n	hinspace : The counter will set to $ hinspace$	2) Set L5 at the new value. The next	assistance reque	est will be afte	er L5 cycles.	
16	WORKING CYCLE COUNTER	From 0.0 to 240 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
Ь (х 10) , 🕻 (х	100), d (x 1 000), E (x 10 000) then L 5 shows d. l. Pressing bu	ay shows a letter and a number. The l , F (x 100 000) and \Box (x 1 000 000). If itton D the display shows the next val \rightarrow \Box . \exists D \rightarrow b . \Box D \rightarrow R . \Box	For instance if a g	•		
ԼՊ	FLASHING LAMP MODE	STANDARD-BLINKING	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
	. .	blinks fast during opening, slow durin during opening, closing and pause.	ng closing and it s	stays on durin	g pause.	
L8	SWAP MOTORS DIRECTION		Sliding 🗸 🤤	Swing 🗸	Dual Sliding 🗸	
L8=no→ DI	tors direction. R1 = OPEN DIR2 = CLOSE \rightarrow R1 = CLOSE DIR2 = OPEN \rightarrow	MOTOR A TERMINAL BLOCK 13: OPEN 14: COM 15: CLOSE 13: CLOSE 14: COM 15: OPEN	16: OPEN 1	TERMINAL BL 17:COM 18: 0 17:COM 18: 0	CLOSE	
		TEST FUNCTIONS				
E I	PHOTOCELLS TEST	5lenabled/ ロロ disabled	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
	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 IL.					
F5	MOTOR THERMAL TEST	5lenabled/ ロロ disabled	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
	e ,	e tested. When the display shows 🗐 R connected. When the motor is in the	-	-	•	
		FACTORY SETTINGS				
d0	DEFAULT RESTORE	5lenabled/ ロロ disabled	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
board shows	ם. To execute hold down butt	ressing button A or B until the displar on C until the display shows [–] . The doesn't have any effect on radio prog	factory default h			
dt d	ONTROL BOARD MODE	Hb swing – $H5$ sliding – HH dual sliding	Sliding 🗸	Swing 🗸	Dual Sliding 🗸	
mode : Hb swi	NG , HS SLIDING, and HH DUAL SL	: SWING – SLIDING – DUAL SLIDING . On IDING. TO CHANGE MODE : Hold down e setting. When the display stops blinking	BUTTON C+ or D-	of the control	board. The	

OBSTACLE PROGRAMMING

PG OBSTACLE DETECTION THERESHOLD PROGRAMMING

P6 helps you to program the obstacle detection sensor automatically. It works only in swing mode dE = Hb. This procedure sets the obstacle detection parameters: R^{-} , RB, b^{-} , and bB. **HOW TO:** The gate must be closed. Keep pressing **BUTTON A** or **B** until display shows P6. When display show _ _ press a **START** command.

 $l \rightarrow$ Motors close pushing on the mechanical stops. The control board hence detects the maximum motors stress.

 $2 \rightarrow$ Motor A opens for 4 seconds. Motor A stops. Motor B opens for 4 seconds. Motor B stops.

 $\exists \rightarrow$ The Gate returns to initial position.

If the display shows 9P, an error has occurred during the procedure. One or more obstacle detection parameters (Rη, Rθ, ϧη, and ϧθ) are left disabled. For these parameters, you can set the value manually. Any command during programming stops P6 programming and the display will show 9P.

Swing 🗸

HARDWARE EXPANSIONS AND OUTPUT FUNCTIONS

	 A B B B A DILATIONS EXAMPLE C → UNLOCK BY PRESA PUSH BUTTON C → UNLOCK BY PUSH BUTTON C → UNLOCK BY PUSH BUTTON 	I 2 3 4 5 6 7 8 9 10 11 12 0 I I I 2 3 4 5 6 7 8 9 10 11 12 0 I <td< th=""><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
QUIKO code	QK-ELOCKM	QK-ELOCKM330	QK-RELAY	
Output 1	×	×	\checkmark	
Output 2	×	✓ ✓ ✓		
Socket	\checkmark	X X		
Applications	ELECTRIC LOCK 12V Hold power: 0.3 A 12V Peak power: 2 A 12V Suggested activation time: 1 -99 seconds Examples of setting : 1) L□ from □ to 5 2) L□ = □□ and a remote key stored (suggested settings □ = EL).	ELECTRIC LOCK 12V Hold current: 0.5 A 12 V Peak power: 4 A 12V Suggested activation time: 1-15 seconds Examples of setting : 1) □2= 1∃ and L□ from □ to 15. 2) □2= □5 and remote key stored as □6 (suggested setting □5 = d□).	GENERAL PORPOUSE RELAY Coil input: 24VDC Max Ratings: 7A / 230VAC Is Examples of setting : 1) □ = □ Relay is on when the gate is open. 2) □ = □ ∩ Relay is toggled by pressing a remote key stored as □ (suggested setting ¬¬=d□).	

□ 1/ □ 2 OUTPUT 1 / OUTPUT 2 01 to 13 Sliding ✓ Swing ✓

These functions are useful when outputs expansion are used. The list below describes the output functions:

50-1 o	FUNCTION NAME	OUTPUT FUCNTIONS DESCRIPTION
01	GATE OPEN	The output is on when the gate is open.
50	GATE CLOSED	The output is on when the gate is completely closed.
03	FLASHING LIGHT	The output is ON-OFF intermittently during the opening and closing phases. During the closing phase the OFF state is longer than opening. During the automatic closure time the output is ON for the same amount of time. In all other states, output is OFF.
04	COURTESY LIGHT	The output is ON for 3 minutes each time gate starts opening.
05	ON/OFF BY REMOTE KEY STORED AS $r G$	The output switches its state (from ON to OFF, from OFF to ON) when a remote key stored by the $\neg \Box$ function is pressed.
06	ON AS LONG AS A REMOTE KEY STORED AS দ ြ IS PRESSED	The output is ON as long as a remote key stored by the ⊢ function is pressed. The output is off when the remote key has been released.
רים	ON/OFF BY REMOTE KEY STORED AS ፫ ባ	The output switches its state (from ON to OFF, from OFF to ON) when a remote key stored by the $\neg \neg$ function is pressed.
08	ON AS LONG AS A REMOTE KEY STORED AS ርግ IS PRESSED	The output is ON as long as a remote key stored by the ¬¬ function is pressed. The output is off when the remote key has been released.
09	ON/OFF BY REMOTE KEY STORED AS 두 원 OR BY A PUSH BUTTON WIRED TO TERMINAL BLOCK INPUT 7-8 E기	The output switches its state (from ON to OFF , from OFF to ON) in these cases: a remote key stored by the $r = 1$ function is pressed, or a push button wired to input 7 is pressed.
10	ON AS LONG AS A REMOTE KEY STORED AS ー 日 IS PRESSED OR BY A PUSH BUTTON WIRED TO TERMINAL BLOCK INPUT 7-8 EՂ	The output is ON in these cases: as long as a remote key stored by the $\neg \exists$ function is pressed or as long as a push button wired to input 7 is pressed. The output is OFF when both remote key and push button have been released.
11	ON DURING GATE OPENING	The output is ON only when the gate is opening.
15	ON DURING GATE CLOSING	The output is ON only when the gate is closing.
13	ELECTRIC LOCK	The output is ON for L I seconds, each time gate starts opening. It is useful for ELECTRIC LOCK module QK-ELOCKM330 and QK-RELAY . Remark: QK-ELOCKM330 is compatible with output 2 only.

Dual Sliding 🗸

INPUT / RADIO / ERROR LOGs

The control board records the last ten events from these sources: terminal block inputs, remote control commands and errors.

- $E = \rightarrow$ Displays the status of the last ten terminal block inputs.
- $r = \rightarrow$ Displays the last ten remote control inputs.
- $E \rightarrow$ Displays the last ten errors.

For each of these parameters, you can scroll up or down the list by pressing **BUTTON C+** or **D** - of the control board. Each time you press them, the display shows a number and then the status (**input** E, **remote** r, or **errors** E). The numbers range from \Box to \Box . The number \Box is the oldest status and the last one stored. After selecting E = /r = /E =, the first status shown is \Box I, the most recent.

TERMINAL BLOCK INPUTS LOG

After selecting E=, display shows the last inputs status in this way:



Each led of the second display shows the status of an input. The input has been activated if the corresponding led is on. *Figure 1* shows how each input is linked to a led. The input 1 is linked to top led,

while input 4 is linked with bottom led and so on.

Figure 1

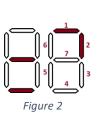


Figure 2 shows **input 1** and **input 2** have been activated. If you want to know which function are linked to **input 1** and **input 2**, you can select $E \mid$ and E^2 parameters. For instance, you can find $E \mid$ = \Box_{\Box} **START**, it means that normally open push button wired from terminal block 1 to 8 has been pressed (closing pin 1 to 8); and E^2 = 5E **STOP**, it means that normally closed switch wired from terminal block input 2 to 8 has been switched (opening pin 2 from 8). In this case, display shows that an user has tried to move the gate without success because the stop input was active at the same time.

RADIO LOG

After selecting r =, display shows the last remote codes received. The remotes key are showed as a number, called **KEYID**. The **KEYID** is the position of remote key in the control board's memory. To view a KEY ID of remote button, select one of the following functions: r = 1, r = 2, r = 3, r = 1, r = 0, r = 0, r = 0, r = 0. After having selected one, the display shows button KEY ID once you are press it; if it is not stored it shows = _ .

ERROR LOG

After selecting \models =, the display shows the last ten errors. The errors showed are:

٦R	Motor A has detected an obstacle
98	Test Motor A failed. Motor A is in thermal protection state or there is a connection error.
٦Ь	Motor B has detected an obstacle
96	Test Motor B failed. Motor B is in thermal protection state or there is a connection error.
9P	An error occurred during programming procedure (우나, 우리 or 우등)
١Ŀ	Photocells test failed
۵Ŀ	Main power supply (230VAC) failure occurred

EU Declaration of Conformity

and Declaration of Incorporation of "quasi-machines" (pursuant to the Machinery Directive 2006/42/CE, Att.II, B)

Company name:	QUIKO	
Postal address:	Via Seccalegno, 19	
Postcode and City:	36040, Sossano (VI) - Italy	
Telephone number:	+39 0444 785513	
E-Mail address:	info@quikoitaly.com	

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus model/Product:	QK-CE2204UNI
Туре:	CONTROL BOARD INCLUDING RADIO MODULE FOR SLIDING AND SWING GATE OPERATORS (220V)

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- Directive 2014/53/EU (RED Directive)
- Directive 2011/65/EU (RoHS)

The following harmonised standards and technical specifications have been applied:

Title:	Date of standard/specification
EN 61000-6-2	2005 + AC:2005
EN 61000-6-3	2007 + A1:2011+AC:2012,
EN 301 489-1 V2.2.3	2019
EN 301 489-3 V2.1.1	2017
EN 60335-2-103	2015
EN 12453	2017
EN 62479	2010
EN 300 220-2 V3.1.1	2017
EN IEC 63000	2018

Additional information

Signed for and on behalf of:		
Revision:	Place and date of issue:	Name, function, signature
01.00	Sossano, 01/03/2024	(Borinato Luca, Legal Officer)

MA



www.quikoitaly.co	m
-------------------	---





QUIKO ITALY

Via Seccalegno, 19 36040 Sossano (VI) - Italy Tel. +39 0444 785513 Fax +39 0444 782371 info@quikoitaly.com www.quikoitaly.com

CE