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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





V25/2024 SW: V25

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.



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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 *no 2-8 DISABLED		*n o DISABLED	LIC MOTB. CLOSING LIMIT SWITCH N.C.
E ∃	*n o	*n o	*n o
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	■ P OPEN ONLY N.O.	FC MOTA. CLOSING LIMIT SWITCH NC
E6 6-8	FR MOT A. OPENING LIMIT SWITCH NC	CLOSE ONLY NO	FR MOTA. OPENING LIMIT SWITCH NC
E기 7-8	PE PEDESTRIAN NO	PE PEDESTRIAN NO	LIR 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		10	11		12
+24 VDC		GND	~		~
	Max 400 mA	24 VAC MAX 20 W			
	MOTOR A		MOTOR B		
13	14	15	16	17	18
DIR1	COMMON	DIR2	DIR1	COMMON	DIR2
MA	X 1200W (Sliding)	OW (Swin	g and Dual sl	iding)	

* 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
H S sliding	Z firmware	25 firmware	SLIDING
	2 firmware	25 firmware	SWING
dual sliding	2 firmware	25 firmware	DUAL SLIDING

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

0.0 0.0 0.0 Kick-back function during closing

FUNCTIONS

нь н5 нн

10

οп

10

ΟŊ

10

A I I4 30 I4 Standard Working time F0 A2 7.0 I0 7.0 Slowdown working time F1 A3 0.8 0.1 0.1 Start up time F2 A4 06 0.1 0.1 Start up time F3 A4 06 0.7 0.5 Standard force F3 A5 0.8 0.8 0.8 Slowdown force F3 A6 0.8 0.8 0.8 Slowdown force F3 A7 no no no Standard obs. detection threshold F7 A8 no no no Slowdown obs. detection threshold F8 A9 1.2 1.0 Motor brake L0 L1 A8 no 1.2 Motor brake Power L3 L5 A1 14 14 Motor brake Power L5 L5 A1 14 14 Standard Working time L6 L7 B2 0.8 0.1 Standard force L6 L7 <tr< th=""><th>menu</th><th>ΗЬ</th><th>НS</th><th>ΗН</th><th>MOTOR A SETTINGS</th><th>ſ</th><th>menu</th></tr<>	menu	ΗЬ	НS	ΗН	MOTOR A SETTINGS	ſ	menu
R2 1.0 1.0 1.0 Slowdown working time F 1 R3 0.8 0.1 0.1 Start up time F2 R4 0.6 0.1 0.6 Start up time F3 R4 0.6 0.7 0.6 Standard force F3 R5 0.6 0.7 0.6 Standard obs. detection threshold F7 R6 0.8 0.8 0.8 Slowdown obs. detection threshold F7 R1 no no no Standard obs. detection threshold F8 R1 no no no Slowdown obs. detection threshold F1 R8 no no no Slowdown obs. detection threshold F1 R8 no no no Notor brake L0 L1 R8 no 12 Motor brake Power L3 L3 menu Hb H5 HH MOTOR B SETTINGS L6 L9 n.1 Standard Working time L1 L3 L9 0.8 0.1 Standard force	R I	IЧ	30	14	Standard Working time		FO
A 3 0.8 0.1 0.1 Start up time F2 A 4 0.6 0.0 Displacement time on closure F3 A 5 0.6 0.7 0.6 Standard force F4 A 6 0.8 0.8 0.8 Standard force F3 A 7 0.6 0.7 0.6 Standard obs. detection threshold F7 A 7 0.0 0.0 Standard obs. detection threshold F8 A 70 0.0 0.0 Standard obs. detection threshold F8 A 70 0.0 0.0 Standard obs. detection threshold F8 A 70 0.0 0.0 Standard obs. detection threshold L0 A 70 0.1 0.0 Motor brake Power L3 Memu Hb H5 HH MOTOR B SETTINGS L5 L 1 1.4 1.4 Standard Working time L6 L 2 0.1 Standard force L6 L7 L 3 0.1 Standard force L1 L2 L 4 0.3 0.6 Standar	SR	ם.ר	10	ם.ר	Slowdown working time		F I
R4D5IDisplacement time on closureF3R5D5D7D5Standard forceF4R6D8D8D8Slowdown forceF5R7nononoStandard obs. detection thresholdF8R9nononoSlowdown obs. detection thresholdF8R9nonoNoSlowdown obs. detection thresholdF8R9nonoNoMotor brakeL0R4noD3Motor brakeL3menuH5H4Motor brake PowerL3menuH5H4Motor brake PowerL3b114I4Standard Working timeL6b27.00.1Start up timeL8b4030.1Standard forceL1b5D5D5Standard forceL3b4030.8Slowdown force0.1b5D5D6Standard obs. detection threshold0.2b60.8nonoSlowdown forceb7nononoSlowdown obs. detection thresholdb7no1Slowdown obs. detection threshold0.2b71NNSlowdown forceb60.8NNSlowdown forceb71NNSlowdown obs. detection thresholdb7NNNSlowdown forceb7NNNSlowdown obs. detectio	R3	0.8	0. 1	0. 1	Start up time	Ī	53
RS 05 07 05 Standard force F4 R6 08 08 08 Slowdown force F3 R7 no no no Standard obs. detection threshold F7 R8 no no no Slowdown obs. detection threshold F8 R9 10 12 10 Slowdown obs. detection threshold F1 R8 no 12 10 Motor brake L0 L1 R8 10 13 Motor brake Power L3 L3 menu H5 H4 Motor brake Power L5 L5 b1 14 Standard Working time L6 L5 b2 0.9 1.0 Slowdown working time L6 b4 0.3 0.1 Standard force L8 b5 0.6 0.8 Slowdown force 0.1 b5 0.6 0.8 Slowdown force 0.1 b6 0.8 0.9 Slowdown obs. detection threshold menu b7 no no	84	06			Displacement time on closure	ſ	FB
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RB no no no Slowdown obs. detection threshold FB $R9$ 12 12 $Motor brake$ $L0$ RA no 12 $Motor brake$ $L0$ RA no 12 $Motor brake Power$ $L3$ Rb 10 03 M $Motor brake Power$ $L3$ $menu$ Hb $H5$ HH $Motor brake Power$ $L3$ $b1$ 14 15 HH $Motor brake Power$ $L5$ $b1$ 14 15 HH $Motor brake Power$ $L5$ $b2$ n_0 n_0 n_0 $Slowdown working timeL6b2n_0n_0n_0Slowdown working timeL1b30.80.10.1start up time0.1L8b40.30.5Standard force0.10.2b50.60.80.8Slowdown force0.10.2b60.80.90.9Slowdown obs. detection thresholdmenub7n_0n_0n_0Slowdown obs. detection thresholdL=P1MMSHHWORKING TIME PROGRAMMINGL=P2\checkmarkI_0\checkmark2 motors working timeprogrammingTESTP6\checkmarkI_0I_0I_0I_0I_0P6\checkmarkI_0I_0I_0I_0$	R٦	no	no	no	Standard obs. detection threshold		F٦
H912Motor brakeL0RAno12Motor brake PowerL1Ab0303Motor brake PowerL3menuHbH5HHMOTOR B SETTINGSL5b114G14Standard Working timeL6b27.0107.0Slowdown working timeL6b30.80.1Start up time0L8b4030.1Start up timeL8b4030.5Standard force14b5050.60.8Slowdown force14b60.80.90.8Slowdown obs. detection threshold102b7no10no11Motor working time12b7no1011Motor working time11P1101111111111P21112122011P6121314Obstacle detection threshold1157programming13141414P614151415	88	no	no	no	Slowdown obs. detection threshold	ſ	F8
RRnoIFinal releaseIAbIIMotor brake PowerImenuHbHSHHMOTOR B SETTINGSIb1I4IStandard Working timeIb2N.IIStandard Working timeIb3I.9I.1Standard Working timeIb3I.9I.1Standard Working timeIb4I.9I.1Standard Working timeIb3I.9I.1Start up timeIb4I.9I.1Start up timeIb5I.6I.9I.6Standard forceIb7noI.9Standard obs. detection thresholdIb7noI.9Standard obs. detection thresholdIb8noI.9I.9Slowdown obs. detection thresholdIb7noI.9I.1MORKING TIME PROGRAMMINGIb7I.9I.9I.1Imotor working time programmingIP2I.9I.9I.9Obstacle detection threshold programmingImage: Image: Image	89		15		Motor brake	ſ	LO
HbIIIIIIIMotor brake PowerIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	AA	no			Final release	ſ	L I
menuHbH5HHMOTOR B SETTINGSL 5b 1141414Standard Working timeL 6b 27.01010Slowdown working timeL 6b 30.80.47.0Slowdown working timeL 1b 40.30.40.1Start up timeL 8b 40.31010Displacement time on openingL 1b 50.5100.5Standard forceL 2b 60.80.80.8Slowdown force0.1b 7no10Standard obs. detection threshold0.2b 8no100Slowdown obs. detection threshold0.2b 9no1001Slowdown obs. detection threshold0.2b 9no1001Slowdown obs. detection threshold0.2b 9no1001Slowdown obs. detection threshold0.2b 9100100111b 100100111b 200100111b 3100111b 4100111b 510011b 6111b 7111b 8111b 9111b 911b 911b 911b 911<	Яb		03		Motor brake Power		LЭ
b IIHIHStandard Working timeL 6b27.007.0Slowdown working timeL 7b30.80.1Start up timeL 8b40.30.1Start up timeL 8b40.30.1Start up timeL 8b50.50.5Standard forceL 8b60.80.6Standard forceL 8b7no1.0Standard obs. detection threshold0.1b7no1.0Standard obs. detection threshold0.2b8no1.0Slowdown obs. detection threshold0.2b7no1.0Slowdown obs. detection threshold0.2b71.01.0Slowdown obs. detection threshold1.0b8no1.02.01.00b91.02.02.001.00b11.01.02.001.00b21.01.000.001.00b11.01.002.001.00b21.002.001.001.00b21.002.001.001.00b21.001.001.001.00b21.001.001.001.00b21.001.001.001.00b31.001.001.001.00b41.001.001.001.00b51.001.001.001.00b61.001.001.00 <td>menu</td> <td>ΗЬ</td> <td>НS</td> <td>HH</td> <td>MOTOR B SETTINGS</td> <td></td> <td>LS</td>	menu	ΗЬ	НS	HH	MOTOR B SETTINGS		LS
b27.0.07.0Slowdown working timeL 7b30.80.1Start up timeL 8b4030.1Displacement time on openingL 1b50.60.60.6Standard forceL 2b60.80.80.8Slowdown force0.1b7no10.8Slowdown force0.1b7no1noStandard obs. detection threshold0.2b8no1noSlowdown obs. detection threshold0.2b8no1NoSlowdown obs. detection threshold1menuMbH5HHWORKING TIME PROGRAMMINGLP11motor working time programming-P22motors working time programmingE=P6Obstacle detection threshold programmingTEST	Ъ	14		14	Standard Working time		۲6
b30.80.1Start up timeL8b4030.1Displacement time on openingL1b5050.50.5Standard force1b6080.80.80.8Slowdown force0.1b7no10.9Standard obs. detection threshold0.2b8no10.0Standard obs. detection threshold0.2b8no10.0Slowdown obs. detection threshold0.2menuHbH5HHWORKING TIME PROGRAMMINGL8P111122 motors working time programmingE=P211120bstacle detection threshold programmingTESTP6111210bstacle detection threshold programmingTEST	53	ח.ם		ס.ר	Slowdown working time		LN
bHD3IDisplacement time on openingL1b5D5DD5Standard forceL2b6D8DDStandard obs. detection threshold0b7noInoStandard obs. detection threshold02b8noINoStandard obs. detection threshold02b8noINoStandard obs. detection threshold02menuHbH5HHWORKING TIME PROGRAMMINGL=P1III1 motor working time programmingF=P2IIIObstacle detection threshold programmingTEST	ЪЗ	0.8		0. 1	Start up time		L8
b5 05 0 05 Standard force b2 b6 08 08 08 Slowdown force o 1 b7 no 10 100 Standard obs. detection threshold o 2 b8 no 100 100 Standard obs. detection threshold o 2 b8 no 100 100 Slowdown obs. detection threshold menu menu H5 HH WORKING TIME PROGRAMMING b = b = P1 100 1 intotor working time programming c = c = P2 100 100 2 intotor working time programming c = c = P6 100 100 Obstacle detection threshold programming r = intotor working time programming intotor working time programming c = intoto working time programming intotor working time programming	ЪЧ	0 3			Displacement time on opening		F 1
b6 08 08 08 Slowdown force 01 b7 no 10 100 Standard obs. detection threshold 02 b8 no 100 Slowdown obs. detection threshold menu menu Hb H5 HH WORKING TIME PROGRAMMING L = P1 1 1 1 motor working time programming r = P2 1 1 2 motors working time programming E = P6 1 0 0 Obstacle detection threshold programming TEST	65	06		06	Standard force		55
▶ ∩ ∩ N N Standard obs. detection threshold □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	66	08		08	Slowdown force		01
bB no Image: solution of the soluticance of the soluticance of the soluticance of	ЪЛ	no		no	Standard obs. detection threshold		50
menuHbH5HHWORKING TIME PROGRAMMINGL =P I····1 motor working time programming····P2····2 motors working time programming··E=P6······Obstacle detection threshold programmingTEST	Ь8	no		no	Slowdown obs. detection threshold		menu
P I ✓ 1 motor working time programming F = P2 ✓ ✓ 2 motors working time programming E = P6 ✓ Obstacle detection threshold programming TEST	menu	ΗЬ	HS	нн	WORKING TIME PROGRAMMING		E=
P2 ✓ 2 motors working time programming E = P6 ✓ Obstacle detection threshold programming TEST	P (~		1 motor working time programming		σ=
P6 ✓ Obstacle detection threshold TEST programming	54	~		~	2 motors working time programming		Ε=
	P6	~			Obstacle detection threshold programming		TEST

HS SLIDING

Hb swing

HH DOUBLE SLIDING

F3	0.0	0.0	0.0	Pre-blinking time	٦٢				
F٩	no	no	no	Kick-back function during opening					
FS	01	01	01	Logic: Standard D I-community D2-step by step D	3				
F٦	5.0	5.0	5.0	Fast closure delay					
F8	no	51		Safety devices as sliding					
LO	no	no	no	lectric lock					
LI	no	no	no	Cold winter function					
L3		no		Swap motor output from A to B					
LS	no	no	no	Assistance request from cycle counter					
٤6	<	<	~	Norking cycles counter					
LN	00	00	00	Flashing lamp operating mode					
L8	no	51	no	Swap motors direction					
٤Ŧ	по	по	no	Photocells test					
55	51	51	51	Motors thermal protection test 5 = enabled					
o I	רס	רס	רס	Output 1 function					
50	13	13	13	Output 2 function					
menu	ΗЬ	ΗS	нн	LOGS					
E=	~	~	~	Errors Log					
Γ=	>	>	>	Radio Log	7				
Ε=	>	>	>	Input Log					
TEST	AND GA	TE FUNC	TIONS D	DISPLAY REPORT SAFTEY DEVICE DISPLAY REP	ORT				
9R/9b Motor A/B is in thermal protection				rmal protection					
AAAA Motor A/B has detect			as detec	cted an obstacle	2/1				
Photocells test error					IIIS				
Assistant request function									

menu	Hb H5 HH TERMINAL BLOCKS FUNCTIONS		TERMINAL BLOCKS FUNCTIONS		
E١	Go	Go	Go	Terminal block input 1	
53	no	no	UE	Terminal block input 2	
EB	no	no	no	Terminal block input 3	
EЧ	no	no	no	Terminal block input 4	
ES.	٥Ρ	FC	FC	Terminal block input 5	
66	EL	FA	FA	Terminal block input 6	
E٦	PE	PE	UA	Terminal block input 7	
menu	ΗЬ	HS	HH	REMOTE KEY CONFIGURATIONS	
r O	>	>	>	Erase a remote control key	
r 1	~	~	~	Save a remote control key as START	
-2	~	~	~	Save a remote control key as STOP	
гB	~	~	~	Save a remote control key as PEDESTRIAN START	
rЧ	~	~	~	Save a remote control key as FAST CLOSURE	
rS.	~	~	~	Erase all remotes control keys.	
r6	Po	Po	Po		
r٦	PE	PE	PE	Save a remote as PROGRAMMABLE FUNCTION . You can change the function linked to these remotes.	
r 8	EL	EL	EL		
rb	\checkmark	~	\checkmark	Internal Radio – C2 External Radio Module	
menu	НЬ	HS	НН	CONTROL BOARD MODE	
dО	НЬ	HS	нн	Restore factory setting selected by dE.	
dŁ	$\leftarrow D \text{ button } C \rightarrow$		C→	Change control board mode and set its factory setting.	

_				
	L	IMIT SWITCHES DISPLAY REPORT	START AND SE	ERVICE COMMAND DISPLAY REPORT
	FE/LE	Motor A closing limit switch NC/NO	Go/PE/FG	Start/ Pedestrian / Fast Closure
	FR/LR	Motor A opening limit switch NC/NO	oP/CL	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		
	HF	Motor A+B limit switches erorr		

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+

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 🗂 🖁			
If the gate is START comm close/open t	closed a START command opens th hands inverts gate movement from he gate. This functionality depends	e gate. If the gate is o closing to opening. If on selected logic F5.	pening the STA the gate has be	ART commands sto een stopped durin	op the gate. When the gate is closing, g opening/closing the START commands			
FG	FAST CLOSURE	E 1 - E7	NC	ORMALLY OPEN	REMOTE KEY STORED AS - 4			
.	Swing mode dE = Hb or FB =			Sliding/Dual Sl	iding mode dE = H5 /HH			
both opening the the gate sta	opening: once all photocells hav ng (E닉 = 논用 or 논돈) and closing (l irts closing after 두기 seconds.	The been activated, EB = Ed or EE),	During the o (E3 = Ed or b	ppening: once clo EE), the gate sta	osing photocell have been activated rts closing after F기 seconds.			
ΡΕ	PEDESTRIAN	Eη	NC	ORMALLY OPEN	REMOTE KEY STORED AS 🖵 🗄			
PEDESTRIAN closing. In a	command opens only Motor A for swing gate system you can open lea OPEN/CLOSE ONLY	F I seconds. The slow of A fully by setting F EI-ES-E6-	vdown phase is I = FF, in this s E T NC	s skipped during ga scenario motor A c DRMALLY OPEN	ate opening while performed during gate opens doing the slowdown phase. REMOTE KEY STORED AS 「日, 「ヿ 「日			
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			
The DEAD M programmed	AN OPEN/CLOSE functions allow the input is kept activated (I.E. a push	ne opening/closing of button kept pressed)	the gate even i	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, ヶりヶ日			
ELECTRIC LO useful when	CK command activates the electric you want to unlock an electric-lock	lock while remote key installed on a pedest	or push butto rian door besid	n wired to terminate the electric gate	al block is pressed. For instance it may be when EL function is used set $L = \neg \Box$.			
DUMMY cor expansions. block. This in	nmands (do for remotes, Eo for t For instance you can turn on/off a r iput has no effects on the gate state	erminal block inputs) elay, wired to output us. See HARDWARE E>	don't have any 1 (o l = 09), by KPANSIONS 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 ($E^{\square} = E_{\square}$) 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							
Radio range	test turns on the flashing lamp whi	e remote key is press	ed. Range test	function helps voi	u to find best antenna location.			
		F3 F4	NC					
During the o	nening: photocells activation does	n't have any effect	During the clo	osing: photocells a	activation opens the gate completely			
$\Box \rightarrow $ the o	pening cannot be started if the close	ing photocell is detec	ting an obstacl	e.	ictivation opens the gate completely.			
ĿЯ	OPENING PHOTOCELLS	EH	NO	ORMALLY CLOSE				
During the o board stops control boar During the o stops the clo internal pho	Swing mode dL = Hb Sliding/dual Sliding mode dL = H5 /HH During the opening: While the opening photocell is activated the control board stops the opening. When the internal photocell is deactivated the control board continues the opening. During the opening: The opening photocell stops the opening and starts the closing. After 2 seconds the closure is stopped. During the closing: If the 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. During the closing: The opening photocell is deactivated. The opening photocell does not have any effect.							
FA/LA FE/LE	MOTOR A LIMIT SWITCHES OPEN N.C./N.O CLOSE N.C./N.O	. 63-65-	- E 6 NO	ORMALLY CLOSE				
The activation close contact	n of motor limit switches ends the ts: FЯ/LЯ моtor A Opening limit	current working phas switch N.C. / N.O.	e, stopping the FE/LE: Moto	e motor. You can ch or A Closing limit sv	noose between normally open or normally witch N.C./N.O.			
UH/HH UE/HE	MOTOR B LIMIT SWITCHES OPEN N.C./N.O CLOSE N.C./N.C	_{0.} E∣-E5-E	6-ЕЛ NO	ORMALLY CLOSE				
The activation normally clo	n of motor limit switches ends the se contacts: 비유/H유 :Motor B Ope	current working phas ning limit switch N.C.	e, stopping the /N.O. U A/ HE	e motor. You can c : Motor B Closing	hoose between normally open or i limit switch N.C./N.O.			
E\o5\o1 1c/2c/3	1/2/3 OPENING - CLOSING 8K2 SAFETY EDGE	E3-E	Ч 8.2	2 Kohm				
The opening	The opening safety edge works like opening-closing photocells. You can wire up to 3 safety edges on the same terminal block input. $\frac{1}{2}$ / $\frac{2}{2}$ / $\frac{3}{2}$ \rightarrow One, two, or three 8.2 Kohm opening safety edges are installed on terminal block 4. $\frac{1}{2}$ / $\frac{2}{2}$ $\frac{2}{2}$ $\frac{3}{2}$ $\frac{2}{2}$ One, two, or three 8.2 Kohm closing safety edges are installed on terminal block 3.							

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

ī

MOTOR A SETTINGS									
Al s	TANDARD WORKING TIME	From 0.0 to 240 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
Motor A works for seconds. This is for from 0.0 to 9.9 sec from 10 to 99 sec Programming wor	Motor A works for \exists is seconds. During this time the motor power is $\exists 5$. After this time motor A stars the slowdown for $\exists 2$ seconds. This is for both phases: opening and closing. In the menu you can adjust \exists in these range: from 0.0 to 9.9 seconds (step +- 0.1 sec). from 10 to 99 seconds (step +- 1.0 sec).								
range is useful in s always accessible a	pecial gate systems. When this paramafter value 99. It is overwritten only if	neter has a value greater tha a new working time progra	an 99, display sho mming procedur	ows PG. This sp e is performed	pecial value is I.				
R2 si		From 0.0 to 240 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
R2 is the slowdow R I. To disable the the linked phase w	vn working time. During this time the slowdown phase set this parameter vill be skipped during programming, a	motor force is RE. You can to DD. If you disabled this p llowing you to program only	program this par parameter before / STANDARD WC	ameter in the second se	same range of 2 procedure,				
A3	START UP TIME	From 0.0 to 1.5 Sec	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
During this time the detection sensor is	ne force of the motor increases consta s disabled. Each time the motor starts	intly until it reaches the maximum f , the first RB seconds are the first RB seconds R	kimum power. D he start-up time.	uring this phase	e the obstacle				
AH dis	PLACEMENT TIME ON CLOSURE	From 0 to 99 Sec		Swing 🗸					
Motor B begins clo	osing $f R f H$ seconds before motor A. Th	is parameter is useful to avo	oid leaf overlap o	luring the closi	ng.				
AS	STANDARD FORCE	From 1 to 10 [10%step]	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
It is the force of I	motor A during the standard worki	ing time A I.							
R6	SLOWDOWN FORCE	From 1 to 10 [10%step]	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
It is the force of m	otor A during the slowdown working	time A2.							
유기 STANDARI	O OBSTACLE DETECTION THRESHOLD	From 00 to 99 - 🗅 🗆	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
the slowdown obs If the slowdown obs was closure, the gastart command wi cycle the sensor w If the slowdown obs The stress of motor The maximum values standard working	tacle detection is enabled or not and bstacle detection is enabled or limit sw ate opens completely. If the direction Il restart the closing. This functionality orks as a limit switch and finishes the bstacle detection is disabled and limit or A is showed as a number by the disp ue depends on the motor and can be time R 1, set $R \eta = n \sigma$. To set $R \eta = n \sigma$	if limit switches are installed vitches are installed: the mo was opening, the gate close y is active 3 times per working working phase: from Opening switches are not installed: t play during the opening pha lower than 99. To disable the hold down or keep pressing	d: otor reverses its of es for 2 seconds. ing cycle. For add ing to Pause, from hen motor A cor use. 00 is the min he obstacle detect g button C .	Jirection. If the After this time litional times d m Closing to St nplete its work nimum, 99 is th ction sensor du	e direction , it stops. A uring the and by. king phase. e maximum. uring the				
RB slowdow	N OBSTACLE DETECTION THRESHOLD	From 00 to 99 - 🗅 🗆	Sliding 🗸	Swing 🗸	Dual Sliding 🗸				
During the slowdo If the limit switche If the limit switche During the openin maximum. The ma during the slowdo	During the slowdown working time \mathbb{R}^2 , if the motor A stress is higher than \mathbb{R}^2 , the motor behaves as follows: <i>If the limit switches are installed:</i> the motor reverses its direction (as during standard obs. det.) for a maximum of 3 times. <i>If the limit switches are not installed:</i> the motor ends its working phase and stops. During the opening, for the slowdown working time \mathbb{R}^2 , 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 \mathbb{R}^2 , set $\mathbb{R}^2 = np$. To set $\mathbb{R}^2 = np$ hold down or keep pressing button C.								
A9	MOTOR BRAKE	From 00 to 99 centiseconds	Sliding 🗸						
Motor brake in cer 99 (0.99 seconds).	ntiseconds. Useful to avoid gate gettin To set 89 = סח hold down or keep p	ng stuck due to inertia. The r pressing button D .	notor brake is se	ttable from רחם	disabled) to				
AA	FINAL RELEASE	From 00 to 99 centiseconds		Swing 🗸					
Motor A opens for only when motor a obstacle detection	• AR centiseconds at the end of closin A finishes the closing phase and after I thresholds must be enabled.	ng to better meet European an obstacle has been detect	safety standard: ted (generally th	s. The function e ground stop)	is executed . To work the				
Яb	MOTOR BRAKE POWER	From 1 to 10 [10%step]	Sliding 🗸						
The motor brake p more suddenly wh B by means of fund	Nower during the braking time is program reaching the limit switches. Bb vaction L 3.	ammed by Hb. Increasing t lue is applied to motor B in	he motor brake case the motor	power will stop output is swap	o the gate ped to motor				

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 is the slowdown working time. During this time the motor force is **b**. 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
down or kee command is shows P日. If	p pressing button C until the display received. You can program a time h t is the value has been programmed	y shows 5E. When F□ = 5 igher than 99 seconds us using procedures ₽ ↓or	5E the gate stops aft ing procedures P 1 c P2. The automatic o	er the op or P2. In closure t	pening. Th this case a ime can b	ne closin after val e progra	g begins ue 99, th ammed u	when a start ne display up to 240 sec.
F {	PEDESTRIAN WORKING TIME	From 0.0 to	99 [sec] - FF	Sliding	\checkmark	Swing	\checkmark	Dual Sliding 🗸
The pedestri and it is exec keep pressin	ian commands (en just Motor A for F l se u wish to completely ope F. In this scenario, Moto	econds. The slowdov en motor A set F I to r A will perform the	wn phase o FF . Thi slowdov	e is bypass s can be a vn phase	sed duri Ichieved during t	ng the ga l by hold he open	ate opening ing down or ing as well.
F2 I	KICK BACK FUNCTION DURING CLO	SING From 0.0	to 2.5 [sec]	Sliding	\checkmark	Swing	~	
When the ga detection se	ate is closing and the slowdown is finns in the same amount of	nished, a ramp pulse is ex nt of time. After the pulse	ecuted by motor A. the closing phase is	This puls s finished	se is F2 s d.	econds	ong and	the obstacle
FB	PRE-BLINKING TIME	From 0.0	to 4.0 [sec]	Sliding	\checkmark	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	\checkmark	
Before open function can	ing motor A closes for 0.5 seconds. be useful when the electric lock is	The force of motor A is se installed and opening is d	et to maximum pow ifficult.	er and th	ne obstacl	e detect	tion is di	sabled. This
FS	CONTROL BOARD'S LOGIC	STANDARD – CC BY	OMMUNITY – STEP STEP	Sliding	\checkmark	Swing	~	Dual Sliding 🗸
	I STANDARD MODE	02 COMU	INITY MODE			03 ѕтер	BY STEP I	NODE
Opening: sta Closing: start	rt commands stop the gate.	Opening: the start commands o	nds don't have any e pen the gate	effect	Opening: Closing: S	start coi tart com	mmands Imands s	stop the gate. top the gate.
F٦	FAST CLOSURE DELAY	From 1.5	5 to 5.0 sec	Sliding	\checkmark	Swing	\checkmark	Dual Sliding 🗸
	SWING MODE 러는 = Hb		SLIDIN	IG dE = H	5 AND DU	JAL SLIDI	NG MOD	E dE = HH
opening (w terminal bl The fast clc closure fun	ired 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 Fn seconds. been started by a fast blocks.	block input 3), ha after Fn seconds. been started by a terminal blocks.	ave been The fas fast clo	n activate t closure osure fun	ed, the is allow ction by	gate sta ved only y remot	rts closing / if gate has e or by
F8	SAFETY DEVICES AS SLIDING	5 lenabled	/ 🗖 🖸 disabled	Sliding	\checkmark	Swing	\checkmark	
	F8 = 5 + Sliding mode			F8 =	: no Swin	g mode		
Opening: Act and starts th gate operato devices does Closing: Act starts the op any effect.	tivation of opening safety devices state 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	tops the gate opening ng is stopped and the ion of closing safety os 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 d vation of	y device deactiv closing s levices s opening	s stops t vated the safety de tops the safety d	he gate gate vices don't gate closing evices
, <u> </u>	DPENING SAFETY DEVICE \rightarrow photocell EH or ELECTRIC LOCK	8K2 safety edge lo/2o/3o CL	OSING SAFETY DEVICE -	Photocel Sliding	ILEL or 8K2	safety edg	ge IL/2'L/ ✔	JL Dual Sliding V
LU	ELECTRIC LOCK	This function	sots the hold time of	Siluing of oloctri	• c lock mo	Swing dulo OK		
		expansion me 15). When QI control board enabled. Each lock for L D se the electric lo You can use t set L D = no a	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	s installe s installe b l to S ns, QK-EI ate chan even if L r applica (see pag	-RELAY (s -RELAY (s d on the d g, the ga LOCKM ur ges state, ges state, seconds tions (I.E. ge 9).	ee funct expansio te elect nlocks an QK-ELC s has no pedestr	tion a a socke ric unloc nd holds OCKM sto t expirection gate	and = 1∃ at page t of the k function is the electric ops unlocking I.) in this case,
LI	COLD WINTER FUNCTION	From	no to 10	Sliding	\checkmark	Swing	\checkmark	Dual Sliding 🗸
The cold wir 10 minutes t	nter function is useful in countries w to keep the control board box and th	ith very cold winters. The ne motor warm. When th	e motor is activated e motor is activated	with the with the	minimum e minimur	n power n power	for L I r ; the gat	ninutes out of e doesn't
move. The f	unction runs when the gate is comp	letely open or in stand-by	only. When L liss	et to no	the funct	non is di	sabled.	
LJ	SWAP WOTOK 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

LS ASSIS	STANCE REQUEST FROM CYCLE COU	JNTER	Sliding 🗸	Swing 🗸	Dual Sliding 🗸
Set to no to c flashing lamp G.9 . The letter 000 000) . In tl 000 – 90 000 request:	isable this function. When the g is on for 1 minutes. This functio is the multiplier of the number nis way you can program assista (E), 100 000 – 900 000 (F), 10	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	s, the display sho ce request. L 5 is 00) , E (x 10 000) 0- 90(占) , 100 – 9 es. To restore this	ws 5L. Each 2 programmabl , F (x 100 000 200 (C) , 1000 counter after	20 minutes the e from R. I to D) and G (x 1 – 9000 (d), 10 an assistance
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 🗸
It is the total w b (x 10) , C (x working cycle	vorking cycle counter. The displa 100), d (x 1 000), E (x 10 000) then LE shows d !. Pressing bu d. ㅣ D	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	letter is the multi For instance if a g Ilue:	plier of the nu ate has comp	umber: A (x 1) , leted 1365
ԼՊ	FLASHING LAMP MODE	STANDARD-BLINKING	Sliding 🗸	Swing 🗸	Dual Sliding 🗸
L	DARD MODE: the flashing lamp MODE: the flashing lamp is on	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 🗸
It changes mo $LB = \Box \rightarrow DI$ $LB = 5 \rightarrow DI$	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	MOTOR B 1 16: OPEN 1 16: CLOSE 1	FERMINAL BL 17:COM 18: 17:COM 18:	OCK CLOSE OPEN
		TEST FUNCTIONS			
E I	PHOTOCELLS TEST	5lenabled/ ロロ disabled	Sliding 🗸	Swing 🗸	Dual Sliding 🗸
Each time the Vice versa the	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 🗸
Before starting This test may started.	g a working cycle the motors are fail if the motor is not correctly	e tested. When the display shows 🗐 R connected. When the motor is in the	l/9b the motor A rmal protection,	/B is in thern the working of the working of	nal protection. cycle cannot be
		FACTORY SETTINGS			
d0	DEFAULT RESTORE	5lenabled/ ロロ disabled	Sliding 🗸	Swing 🗸	Dual Sliding 🗸
To restore the board shows board state is	factory default settings, keep p D . To execute hold down butt in stand by state. This function of	ressing button A or B until the displa on C until the display shows [–] . The doesn't have any effect on radio prog	y shows dD. After factory default h gramming.	r a few secon as been set a	ds the control nd the control
dt d	ONTROL BOARD MODE	Hb swing – $H5$ sliding – HH dual sliding	Sliding 🗸	Swing 🗸	Dual Sliding 🗸
This control boomode : Hb SWI display blinks sl	ard can manage three types of gate NG , H 5 SLIDING , and HH DUAL SL nowing the operating mode you are	: SWING – SLIDING – DUAL SLIDING . On IDING. TO CHANGE MODE : Hold down e setting. When the display stops blinking	ce selected dE, the BUTTON C+ or D- g, the configuratior	e display shows of the control n showed has k	s the current board. The een set.

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: A^{-} , AB, 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

	O A B B A D A D A D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D		$ \begin{array}{c} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 1 \\ \hline 0 & & & & & & & & & & \\ & & & & & & & & &$	
QUIKO code	QK-ELOCKM	QK-ELOCKM330	QK-RELAY	
Output 1	×	×	✓	
Output 2	×	 ✓ 	\checkmark	
Socket	>	×	×	
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 0 from 0 1 to 15 2) L 0 = no and a remote key stored (suggested settings n 0 = 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 □ 1 to 15. 2) □2= □5 and remote key stored as □6 (suggested setting □6 = d□).	 GENERAL PORPOUSE RELAY Coil input: 24VDC Max Ratings: 7A / 230VAC Examples of setting: 1) □ 1 = □ 1 Relay is on when the gate is open. 2) □ 1 = □ 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:

o 1-o2	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 $ ho {f 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 ا 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.
רם	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 ┌ ☐ 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 $\neg \exists$ function is pressed, or a push button wired to input 7 is pressed.
10	ON AS LONG AS A REMOTE KEY STORED AS - B IS PRESSED OR BY A PUSH BUTTON WIRED TO TERMINAL BLOCK INPUT 7-8 E	The output is ON in these cases: as long as a remote key stored by the ⊢ 🗄 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.
	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. 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.
Ŀ	Motor B has detected an obstacle
В	Test Motor B failed. Motor B is in thermal protection state or there is a connection error.
90	An error occurred during programming procedure (P り P己 or Pら)
Ĩ	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
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