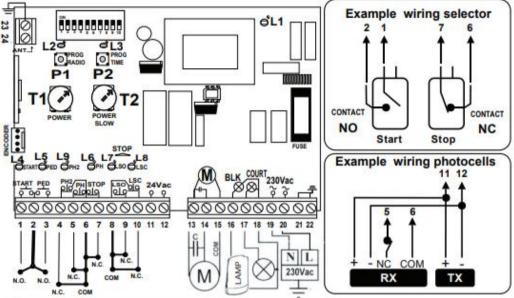


USER MANUAL VO1



Terminal	Tip.	Description	
1 - 2com	NO	START CONTACT (Each impulse OPEN/STOP/CLOSE/STOP)	
3 - 2com	NO	PEDESTRIAN CONTACT	
4 - 6com	NC	SAFETY BAND OR OPENING PHOTOCELLS (If no use make bridge)	
5 - 6com	NC	CLOSING PHOTOCELLS (If no use make bridge)	
7 - 6com	NC	STOP contact(If no use make bridge)	
9 - 8com	NC	LIMIT SWITCH OPENING	
10 - 8com	NC	LIMIT SWITCH CLOSING	
11 - 12	24V ~	Power service or accessories (output 24Vac 250mA)	
13-14-15	230V ~	Input ENGINE (13-14 input phases with capacitor in parallel) (15 common)	
16 - 18	230V ~	FLASH	
17 - 18	230V ~	COURTESY LIGHT	
19 - 20	230V ~	Input POWER 110Vac	
21 - 22	1	GROUND	
23 - 24		Input ANTENNA (24 signal)	

UNI

Our products if installed by qualified personnel capable to evaluate risks, comply with norms UNI EN 12453, EN 12445

The CE mark complies with EEC European directive 89/336 + 93/68 D.L.04/12/1992 n.476

TECHNICAL SPECIFICATIONS

230V AC +/- 10% Power Power engine 550 W Output accesories 24V AC 250mA Time for automatic close 5 a 120 sec Time for maneuver 3 a 120 sec Time for slow down 2 a 120 sec Time for courtesy light 180 sec Nr codes storable 254 code Transmitters type Fix\Roll-code Frequency 433.92 / 868 Mhz Temperature to work -20 a 70°C Sensibility Better of -100dBm

Homologation Conf ETS 300-220/ETS 300-683

TRIMMER T1

The trimmer POWER regulates the torque and sensitivity during the maneuver

TRIMMER T2

The trimmer POWER SLOW regulates the torque and sensitivity during SLOW DOWN phase



The TORQUE increases turning the trimmer in clockwise sense.

BUTTON P1 or RADIO PROG for storage the transmitter P2 or PROG TIME for storage the stroke

ENCODER OPERATION

Actived by DIP8 ON

CHANGE OF SENSITIVITY AND TORQUE

More torque = less sensitivity Less torque = more sensitivity

The parameters are set by the trimmer T1 and T2.

TABLE	D LEDS	
L1	Led STATUS	Lit when the unit is powered
L2	Led RADIO	Lit when accessing in radio storage
L3	Led PROG. TIME	It is blinking when in programming
L4	Led START	Lit when taking a pulse
L5	Led PEDESTRIAN	Lit when taking a pedestrian pulse
L6	Led PHOTOCELLS	Lit when the fotocells are aligned
L7	Led L.S. OPENING	Lit when limitswitch opening is on NC
L8	Led L.S. CLOSING	Lit when limitswitch closing is on NC
L7+L8	Led STOP	Both on when the stop is on NC
L9	Led PHOTOCELLS AP/ safety edge	Lit when the photocells are aligned/ safety edge connected

ALL DIP-SWITCH:

DIP 1	ON- Counterweight doors function OFF- Sliding gate function				
DIP 2					
DIP 3	CONDOMINIUM / STEP BY STEP ON- The automation will end the operation always on end switches, in opening does not accept pulses, in closing a pulse will cause the reverse. OFF- For each pulse automation will stop (OPEN-STOP-CLOSE-STOP)				
DIP 4	INVERSION OF THE DIRECTION ON-Invert direction and the limitswitch OFF-Invert direction and the limitswitch				
DIP 5	SETTING SEFETY CONTACT IN OPENING ON-In opening the control board stop and invert for 2sec the gate direction OFF-In opening the control board stop the gate direction				
DIP 6	FLASHING FUNCTION ON-Intermittent light OFF- Steady light				
DIP 7	SLOW DOWN ON-Activate OFF-Not activate				
DIP 8	ENCODER ON- Encoder actived OFF- Encoder not actived				
DIP 9	OPEN RADIO MEMORY WITH TRANSMITTER With you can storable other transmitter without open the control board. ON- Actived OFF-Not actived				
DIP 10	MANAGE SLOWDOWN ON-Heavy leaf OFF-Light leaf				

FLASHING OPERATION WITH DIP6 ON

IN OPENING: Flash slow IN CLOSING: Flash fast IN PAUSE: Steady light PHOTOCELL ENGAGED: Turn off

QUIKO ITALY VIA SECCALEGNO, 19 36040 SOSSANO (VI) ITALY TEL: +39 0444 785513

EMAIL: INFO@QUIKOITALY.COM

FEATURES

The control unit QK-CE220CN control equipment for sliding systems and road barriers to 230Vac power supply.

This panel can manage motors with or without limit switches, encoders and encoder+limitswitches.

The peculiarity of QK-CE220CN is that it has separate torque control, through trimmer T1 and T2 (T1 regulates the torque while running in normal speed the T2 adjusts the torque during deceleration). Interacting on these devices can optimize the operation of the automation so as to be within the actual rules. The programming of the switches and remote controls is self-learning, so everything

In case management through ENCODER (DIP 8 ON) security will be guaranteed by the photocells/bands safety or to torque control: if the gate find an obstacle will be reversed or blocked.

With ENCODER not active (OFF DIP 8) not have the reverse function but only torque control through trimmer T1 and T2.

PROGRAMMING REMOTE CONTROL

The QK-CE220CN can handle 254 transmitters ROLLING CODE.

The programming of the transmitters is done by pressing the P1 for 2sec, the LED L2 turns on, then pressing the button of the remote will flash twice to indicate the LED L2 is stored in memory. After 6 seconds automatically central will exit the programming function.

PROGRAMMING PEDESTRIAN MODE (by remote control)

To program this function push P1 button for 2sec, release it and press it again for 1 sec, the LED L2 starts flashing and each press of the button on a remote control will be a rapid double flash of the LED L2, after 6sec the control board automatically exit to programming. The operating time of the pedestrian mode is 8 sec.

REMOVE ALL CODES

Press and hold the P1 for 6 seconds when it is released there will be a quick flash of the LED L2, with consequent turning off after 6 seconds.

PROGRAMMING THE STROKE

The programming begins automation is closed, the first operation will be the opening, otherwise reverse the direction by DIP switch 4.

PROGRAMMING with slow down (DIP 70N)
To enter in programming, press the P2 button for 2 seconds, the LED3 will flash

Give a FIRST PULSE by START contact (terminals 1 and 2) or by transmitter already been programmed.

The operator will start the opening phase, give a SECOND PULSE where you want to start the slow down in opening.

The engine will complete the stroke and will stop at close limitswitch (if you chose an automatism without limitswitches must give a further impulse to fix the stopping point of the stroke).

If you choose to have the AUTOMATIC CLOSING (OPTION 2 IN ON), the closing time will be calculated from the moment when the operator arrives to open limitswitch until you give the THIRD PULSE, the automatism will start closure.

Where do you want start slowing down in closing you must give the FOURTH PULSE. The arrest will be through the closing limitswitch and now the LED will turn off 3. If the automatism is not expected to limit switch, you will need to give a last pulse where you want to stop.

PROGRAMMING without slow down (DIP 70FF)

Set the option 7 to OFF for the exclusion of the slowdown phase. Follow the procedure listed above (learning with slowdown) without transmitting the second pulse in opening and the fourth during closing. So once impulses transmitted to the beginning of the maneuvers, in opening and in closing, they will finish at the limitswitch position.

OPERATION LOGIC OF THE SAFETY

SAFETY BAND TERMINAL (4-6) This contact protects opening and closing.

DIP 5 ON; in opening when there is an obstacle, the engine stop and reverse for 2 sec.

DIP 5 OFF: in opening when there is an obstacle engine STOP In both cases in closing when there there is an obstacle the gate stop.

PHOTOCELLS TERMINAL (5-6) This contact protects only in closing

In closing when there is an obstacle engine STOP

STOP TERMINAL (18-19) The contact if open will cause the immediate arrest of the automation in any situation.

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