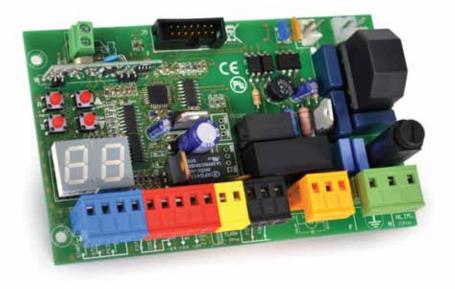
# English

# CONTROL PANEL FOR SLIDING GATES

Instructions Manual

230V ac

# **Q80S**



## Multi-function control panel for sliding gate - 230Vac

- Programming display
- Electronic adjustment of working time
- Automatic programming procedure with obstacle detection (anti-crushing function) or step-by-step programming procedure with electronic adjustment of power and deceleration.
- "Quick closing" function
- Pedestrian Opening function
- Multi-Occupation function.
- Pre-Blinking function.
- Additional radio channel (optional module)
- Built-in radio receiver 433,92MHz (64 codes).
- Terminal for safety edge 8K2 type
- Fault Diagnostic with display messages

TECHNICAL FEATURES	
Item code	PQ80S
Control Panel Dimensions	137 x 84 x 37 mm
Box dimensions	220 x 290 x 90 mm
Control Panel Weight	160 g
Main Power	230V ~ 50-60Hz
Main Power Tolerance	-10% +20%
Transformer	230/21Vac – 15VA
Main Fuse	5 A
Rated power input	600 W
Rated current	3.5 A
Current in stand-by mode	30 Ma
Blinker power supply	24 Vac, max 20 W
Accessories power supply	24 Vdc , max 5 W
Working temperature	-20 +50 °C

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## 1. WARNINGS

WARNING: This manual contains important information concerning personal safety. An incorrect installation or an improper use may lead to severe injuries.

Read carefully and pay particular attention to the safety sections marked by the symbol



Store this manual safely for future use.

Do not allow children or pets near your gate. Never let children operate or play with gate controls. Keep the remote controls away from children and unauthorised users.



All wirings or operations on the control panel must be performed with the control panel disconnected from the power supply.



Connect the control panel only to a power supply line equipped with safety grounding system.

Wiring, settings and commissioning of this control board must be carried out by qualified and experienced personnel only. The installation has to comply to laws and regulations in force, with particular reference to EN 12445 provisions.

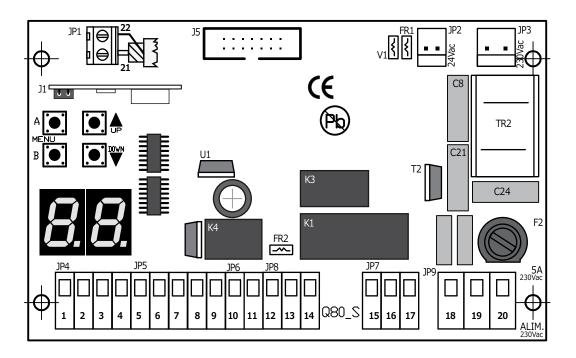
This appliance is only to be used with the power supply unit provided with the appliance.

Means for disconnections must be incorporated in the fixed wiring in accordance with the wiring rules and wiring diagram (please see paragraph 3).

When operating a biased-off switch, make sure that other persons are kept away.

Frequently examine the installation for signs of wear or damage to cables. Do not use if repair or adjustment is needed.

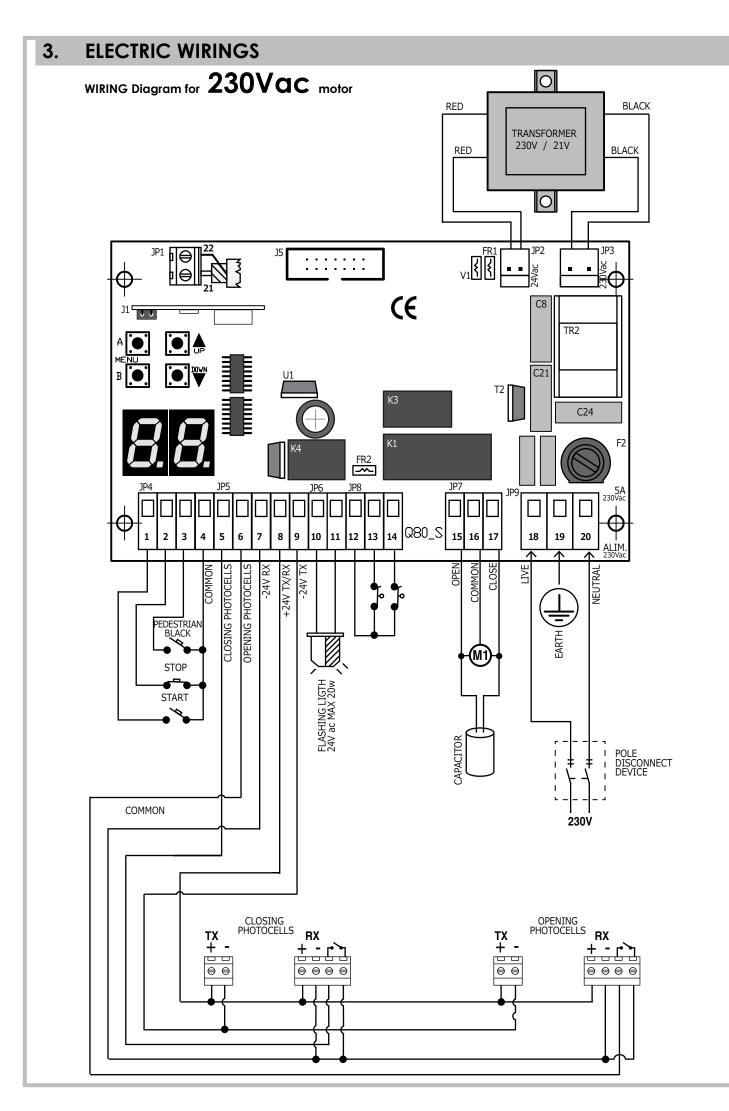
# 2. WIRING DIAGRAM and COMPONENTS



**DISPLAY** = segments display J1 = radio module J5 = plug for optional modules = 230V fuse 5A F2 FR1 = 24V fuse 1.6A (self-restorable) FR2 = 24V fuse 0.6A (self-restorable) V1 = secondary varistor K1/K3 = motor relay = blinker relay K4 TR2 = filter JP1 = AERIAL terminal block JP2 = secondary transformer plug 24Vac JP3 = main transformer plug 230Vac JP4 = CONTROLS terminal block = PHOTOCELLS terminal block JP5 JP6 = BLINKER terminal block JP7 = input Motor JP8 = input LIMIT-SWITCH JP9 = 230V MAIN power/earth terminal block

## **Display BUTTONS Legend**

A .	ENTER
в	EXIT
	INCREASE or START command (when not programming)
	DECREASE or PEDESTRIAN START command (when not programming)



## JP1 = AERIAL terminal block

- 21 aerial cable (SIGNAL)
- 22 aerial cable (EARTH)

JP2 = TRANSFORMER secondary plug 24Vac (red wires)

JP3 = TRANSFORMER main plug 230Vac (black wires)

#### JP4 = CONTROLS terminal block

- 1 START command (N.O. contact)
- 2 STOP command (N.C. contact)
- 3 PEDESTRIAN START command (N.O. contact)
- 4 NEUTRAL for controls

#### JP5 = PHOTOCELLS and SAFETY DEVICES

- 5 CLOSING PHOTOCELLS terminal (N.C. contact)
- 6 OPENING PHOTOCELLS terminal (N.C. contact)
- 7 Photocells RECEIVER power supply -24V
- 8 Photocells RECEIVER/TRANSMITTER
- 9 Photocell TRANSMITTER power supply -24V

#### JP6 = BLINKER terminal block

- 10 BLINKER power supply 24Vac
- 11 BLINKER power supply 24Vac

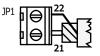
#### JP7 = MOTOR terminal block

- 15 OPENING LIMIT-SWITCH
  16 NEUTRAL
  17 CLOSING LIMIT-SWITCH
  17 CLOSING LIMIT-SWITCH
- JP8 = LIMIT-SWITCH terminal block
  - 12 NEUTRAL-
  - 13 OPENING LIMIT-SWITCH
  - 14 CLOSING LIMIT-SWITCH

JP9 = 230V MAIN POWER/EARTH terminal block

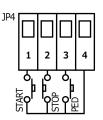
Pole disconnect means must be incorporated in the fixed wiring to the control panel

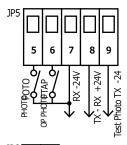
**J5** = plug for optional modules

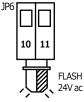


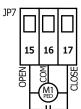


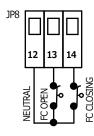


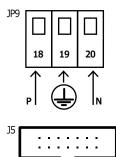










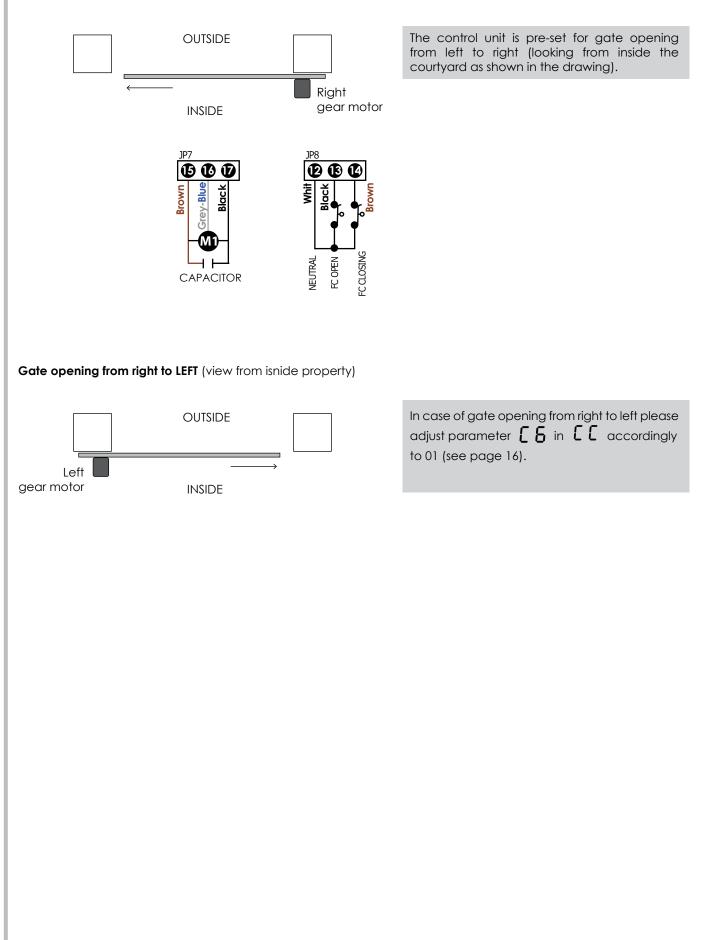


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## 3.1 MOTORS wiring

Please check motor wirings according to the gate opening direction

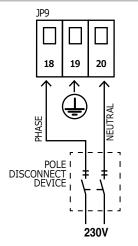
Gate opening from left to RIGHT (viw from inside courtyard)



## 3.2 MAIN POWER wiring

**Pole disconnect** means must be incorporated according to current rating.

Connect 230V power to **18 - 19 - 20** terminals on **JP9** terminal block, paying attention to respect polarity (18 PHASE– 20 NEUTRAL).



1 2 3 4 5 6 7

2 3

ART T a

11

8

8

9

10

5

4

6 7

## 3.3 START controls wiring

Wire the START control/push-button to 1 and 4 terminals on JP4 terminal block (N.O. contact).

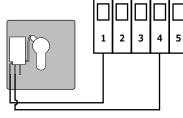
Additional START controls/push-buttons can be wired in **parallel** (N.O. contact).

#### 3.3.1 TIMER (for permanent opening command) wiring

Wire the TIMER to  ${\bf 1}$  and  ${\bf 4}$  terminals on JP4 terminal block (N.O. contact).

#### 3.3.2 KEY-SWITCH wiring

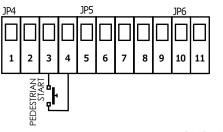
Wire the KEY-SWITCH to  ${\bf 1}$  and  ${\bf 4}$  terminals on JP4 terminal block (N.O. contact).



## 3.4 PEDESTRIAN START controls wiring

Wire the PEDESTRIAN START control/push-button to  ${\bf 3}$  and  ${\bf 4}$  terminals on JP4 terminal block (N.O. contact).

Additional PEDESTRIAN START controls/push-buttons can be wired in parallel (N.O. contact)



7 8

9 10

11

6

## 3.5 STOP push-button wiring

Wire the STOP push-button to **2** and **4** terminals on **JP4** terminal block. Additional STOP controls/push-buttons can be wired in parallel (N.C. contact)



The wiring of an emergency stop push-button is highly recommended for the safety of people and objects.

Note: Should you need to temporary exclude the STOP connections, please set **P** | parameter in the ACCESSORIES menu to **D** =DISABLED.

## 3.6 PHOTOCELLS wiring

#### 3.6.1 CLOSING Photocells

Power the CLOSING PHOTOCELLS wiring them to terminals 7 - 8 - 9 on JP5 terminal block.

Wire the N.C. contact of the photocells to terminals **5 - 7** on **JP5** terminal block.

The closing photocells will behave as follows:

- If an obstacle interrupts the photocell beam when the gate is closing, the automation STOPS and REVERSES in about 1.5 seconds.
- An obstacle detected by the photocells when the gate is OPENING does not cause any effect.

Additional sets of CLOSING PHOTOCELLS can be wired in series (N.C. contact).



#### For safety reasons al least one set of photocells must be installed to protect the CLOSING area of the gate.

Note: Should you need to temporary exclude the CLOSING PHOTOCELLS connections, please set **P** 2 parameter in the ACCESSORIES menu to **D** =DISABLED.

#### 3.6.2 OPENING Photocells

Power the OPENING PHOTOCELLS wiring them to terminals **7 - 8 - 9** on **JP5** terminal block.

Wire the N.C. contact of the photocells to terminals 6 - 7 on JP5 terminal block.

The opening photocells will behave as follows:

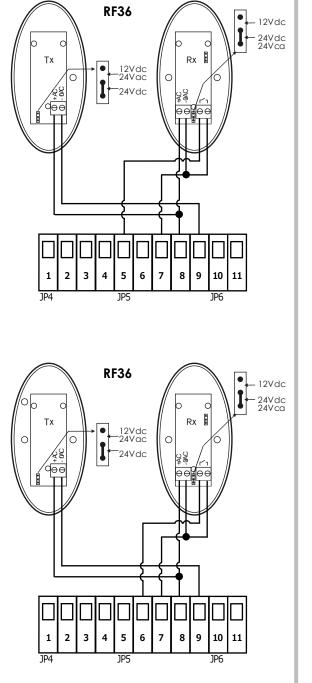
 If an obstacle interrupts the photocell beam when gate is opening, the automation STOPS and REVERSES in about 3 seconds.

Additional sets of OPENING PHOTOCELLS can be wired in series (N.C. contact).



#### For safety reasons al least one set of photocells must be installed to protect the OPENING area of the gate.

Note: Should you need to temporary exclude the OPENING PHOTOCELLS connections, please set **P 3** parameter in the ACCESSORIES menu to **1 1** =DISABLED.



3

4 5 6 7 8 9 10

1 2

## 3.7 SAFETY EDGE wiring

N.C

3

4

1 2

#### 3.7.1 CLOSING (Mechanical) Safety Edge

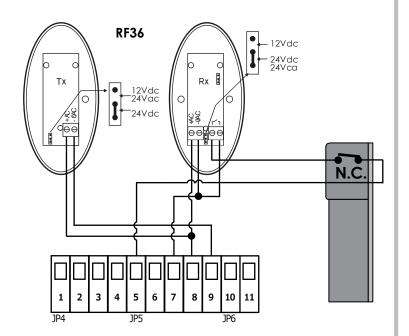
Wire the CLOSING SAFETY EDGE to terminals **5 - 9** on **JP5** terminal block.

- If the safety edge meet any obstacle while the gate is CLOSING, the automation STOPS and REVERSES.
- An obstacle detected by the safety edge while the gate is **OPENING** does not cause any effect.

#### (Mechanical) SAFETY EDGE + PHOTOCELLS

Wire the (Mechanical) SAFETY EDGE in series to the receiver photocell (N.C. contact)

- If the safety edge meet any obstacle while the gate is **CLOSING**, the automation STOPS and REVERSES.
- An obstacle detected by the safety edge while the gate is **OPENING** does not cause any effect.



#### 3.7.2 OPENING (Mechanical) Safety Edge

5 6 7 8 9

1P5

Wire the OPENING SAFETY EDGE to terminals 6 - 9 on JP5 terminal block.

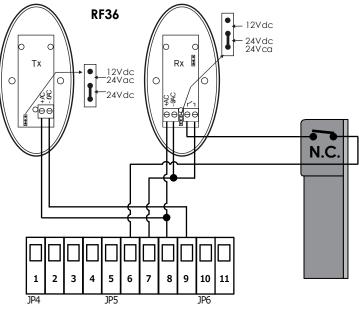
10 11

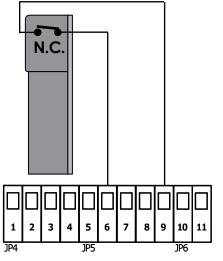
- If the safety edge meet any obstacle while the gate is **OPENING**, the automation STOPS and REVERSES for about 3 seconds.
- An obstacle detected by the safety edge while the gate is CLOSING does not cause any effect.

#### (Mechanical) SAFETY EDGE + PHOTOCELLS

Wire the (Mechanical) SAFETY EDGE in series to the receiver photocell (N.C. contact)

- If the safety edge meet any obstacle while the gate is OPENING, the automation STOPS and REVERSES for about 3 seconds.
- An obstacle detected by the safety edge while the gate is **CLOSING** does not cause any effect.





### 3.7.3 CLOSING SAFETY EDGE 8K2 type

Wire the CLOSING SAFETY EDGE 8K2 to terminals **5 - 9** on **JP5** terminal block.

Please make sure that parameter **P2** in **PP** menu is set on **02**.

- If the safety edge meet any obstacle while the gate is CLOSING, the automation STOPS and REVERSES.
- An obstacle detected by the safety edge while the gate is **OPENING** does not cause any effect.

## SAFETY EDGE 8K2 + PHOTOCELLS

**RF36** 

12Vdc 24Vac

24Vdc

Тх

Wire the 8K2 safety edge in series to the receiver photocell (N.C. contact)

Please make sure that parameter  $P_{2}$  in PP menu is set on  $\Pi_{2}$ .

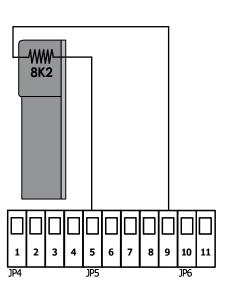
- If the safety edge meet any obstacle while the gate is **CLOSING**, the automation STOPS and REVERSES.
  - An obstacle detected by the safety edge while the gate is **OPENING** does not cause any effect.

Rx

 $\cap$ 

12Vdc 24Vdc 24Vca

> \\\\ 8K2



#### 3.7.4 OPENING Safety Edge 8K2 type

Wire the OPENING SAFETY EDGE 8K2 to terminals 6 - 9 on JP5 terminal block.

Please make sure that parameter **P3** in **PP**menu is set on **03**.

- If the safety edge meet any obstacle while the gate is **OPENING**, the automation STOPS and REVERSES for about 3 seconds.
- An obstacle detected by the safety edge while the gate is **CLOSING** does not cause any effect.

## SAFETY EDGE 8K2 + PHOTOCELLS

5

1P<sup>r</sup>

4

6

2 3

Wire the 8K2 safety edge in series to the receiver photocell (N.C. contact)

9 10

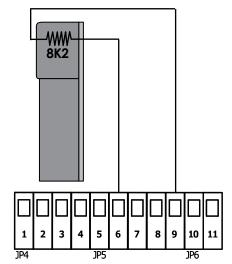
1PF

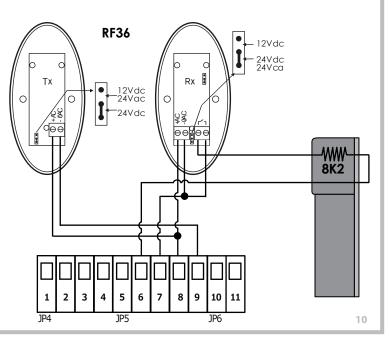
11

8

Please make sure that parameter P3 in PP menu is set on 03.

- If the safety edge meet any obstacle while the gate is **OPENING**, the automation STOPS and REVERSES for about 3 seconds.
- An obstacle detected by the safety edge while the gate is **CLOSING** does not cause any effect.





## 3.8 BLINKER wiring

You can wire a flashing light (20W max) to  ${\bf 10}$  -  ${\bf 11}$  terminals on  ${\bf JP6}$  terminal block.

The flashing light will behave as follows:

- **QUICK** flashing  $\rightarrow$  the gate is **OPENING**
- **SLOW** flashing  $\rightarrow$  the gate is **CLOSING**
- STILL light on

 $\rightarrow$  the gate is in PAUSE TIME before the

automatic closing

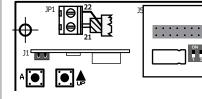
Note: You can select the kind of flashing light with **H L** parameter in the FUNCTIONS menu.

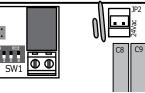
## 3.9 AUX/2ND RADIO CHANNEL module

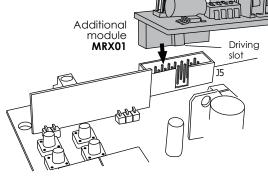
Plug the additional **MRX01** module (optional) into **J5** connector, please pay attention to the module's orientation as shown in the picture.



Before setting the dip-switches **SW1** on the AUX module, make sure that the control panel is disconnected from any power supply.







#### 3.9.1 2ND RADIO CHANNEL settings

Note: to use the MRX04 module as a 2nd radio channel, you need to save the corresponding radio code. Please refer to RADIO menu, parameter **A**.

Select the AUX module settings with SW1 dip-switch-block:

#### STABLE switch

Electric contact closes every time you press the remote control. To select this mode, please set the dip-switches on the module as shown: **1= ON 2= OFF 3= OFF** Dip-switch 4 is non influential.

#### **BISTABLE switch – Toggle Mode**

Electric contact closes or opens every time you press the remote control. To select this mode, please set the dip-switches on the module as shown: **1= OFF 2= ON 3= OFF** Dip-switch 4 is non influential.

#### TIMER mode

Electric contact closes when you press the remote control and stays closed for 90 seconds.

To select this mode, please set the dip-switches on the module as shown: **1= ON 2= ON 3= OFF** Dip-switch 4 is non influential.

#### 3.9.2 CONTROL LIGHT settings

You can use the MRX01 module to control an indicator light.

The electric contact stays closed, so the light stays on, during all the opening-closing cycle.

To select this mode, please set the dip-switches on the module as shown: **1= OFF 2= OFF 3= ON** Dip-switch 4 is non influential.

#### 3.9.3 COURTESY LIGHT settings

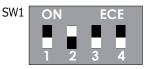
You can also use the MRX01 module to control a courtesy light when the gate is operating. The electric contact closes since the gate starts operating till 90 seconds after the gates stops.

To select this mode, please set the dip-switches on the module as shown: **1= ON 2= OFF 3= ON** Dip-switch 4 is non influential.



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24V ac











4.	4. PROGRAMMING							
			Display	Description				
A 💽	ENT	ER	R R	RADIO menu				
<u>• - •</u>			6.0	PROGRAMMING menu				
		SCROLL	FF	FORCE menu				
			HН	FUNCTIONS menu				
A .●.	C	ONFIRM	LL	TIMES menu	Enclish			
в	EX	IT	PP	ACCESSORIES menu				
<u>• • •</u>			UU	Counter (number of cycles from 00.00.00 to 99.99.99)				
4.1 🖁 🛱 RADIO menu								
You c	an st	ore up to 64 different radi	io codes o	n this control panel .				
Press k	outto	n A and use		to select menu RR				
				nenu: display will show <b>R</b> _				
ſ								
Use	<u>.                                    </u>		scroll me ic	ower level menu and select:				
0.1		<b>6</b>						
81				code – standard START command				
	1	Use	tons to mo	ve inside the menu, till the display shows:	81			
	2		e remote c	ontrol and simultaneously press button A				
		on the control panel. The display shows the ro	adio code	position.	02 64 <sub>(max)</sub>			
	2			·				
	3	If the display shows It means that memory i	s full and n	o further code can be stored.	FL			
	Re	peat steps 1) and 2) to so	ave anothe	er remote control as START command.				
	4	Press button B 💽 to g then press button B			58			
		Or wait the timeout (20						
		1						
82	I	Saving a new remot	e control	code – PEDESTRIAN START command				
	1	Use 💽 🛦 💽 🖤 but	tons to mo	ve inside the menu, till the display shows:	82			
	2	the control panel.	e remote co	ontrol and simultaneously press button A	01 02			
		The display shows the ro	adio code	position.	<b>6 4</b> (max)			
	3	If the display shows			FL			
		It means that memory i	s full and n	o further code can be stored.				
	Re	peat steps 1) and 2) to so	ave anothe	er remote control as PEDESTRAIN START command.				
	4	Press button B to g	go back to	the top level menus,	Sd			
		then press button B	again till	the display shows:				

Or wait the timeout (20 seconds) to ex
--

		AUX optional radio module is needed to get a 2nd Radio Channel	
	1	Use 🂽 🌲 💽 🖤 buttons to move inside the menu, till the display shows:	83
	2	Now <b>press and hold</b> the <b>remote control</b> and simultaneously press button A on the control panel. The display shows the radio code position	01 02 64(m
	3	If the display shows It means that memory is full and no further code can be stored.	FL
	Re	epeat steps 1) and 2) to save another remote control for the 2ND RADIO CHANNEL	
	4	Press button B ( ) to go back to the top level menus, then press button B ( ) again till the display shows:	Sð
		or wait the timeout (20 seconds) to exit	
۶ ۲	ł	Deleting an existing remote control code	
	1	Use 💽 🌲 💽 🤍 buttons to move inside the menu, till the display shows:	ጸሣ
	2	Press button A 💽 to confirm	
	3	Use 💽 🛔 💽 🦞 buttons to select the position of the code you want to delete	016
	4	Press and hold button A for about 5 seconds till the display shows	Sð
	5	Release button A 💽 , display will show again	ጸዓ
	Rep	peat steps 1) to 5) to delete other existing remote control codes	
	6	Press button <sup>B</sup> to go back to the top level menus, then press button B again till the display shows:	50
		or wait the timeout (20 seconds) to exit	
~ ~	-		
89	)	Deleting ALL stored radio codes	
	1	Use 💽 🏚 💽 🖤 buttons to move inside the menu, till the display shows:	85
	2	Press and hold button A for about 10 seconds till the display shows	Sd
	3	Release button A _ , the display shows again	85
	4	Press button B to go back to the top level menus, then press button B again till the display shows:	58
		or wait the timeout (20 seconds) to exit	

13

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4.2	٤	PROGRAMMING menu				
Press b	uttor	n A 💽 and use 🚺 🌲 💽 🖤 to select menu 🕻 🕻 ,				
then press button $A$ $\square$ to enter the PROGRAMMING menu: display will show $\square$ $\_$						
Use		buttons to scroll the lower level menu.				
			4			
<b>с</b> .		.1 Selecting the PROGRAMMING MODE	Enclish			
		AUTOMATIC programming mode, with OBSTACLE DETECTION				
		Before starting this programming procedure make sure that the TORQUE/POWER is not set to in that case please adjust parameter $F$ in $F$ menu to reduce it.	o high:			
ĺ		Automatic programming procedure: the control panel <b>automatically</b> sets motors' working times and force as well as the sensibility level for the obstacle detection (amperometric).				
	1	Use 💽 🏚 💽 🦉 buttons to move inside the menu, till the display shows:				
	2	<ul> <li>Press and hold button <sup>A</sup> for about 10 seconds.</li> <li>The control panel starts the automatic programming procedure, the gate will: <ul> <li>If open, it start closing till the limit switch bracket meets the motor</li> <li>Then it opens till the opening limit position</li> <li>Stops and reverses till the fully closed position</li> <li>The control unit automatically sets deceleration about 50cm before the fully closed/open positions</li> </ul> </li> </ul>	EI			
_	3	Now working times, deceleration times and the level of sensibility for obstacle detection have been automatically set.				
	4	Press button <sup>B</sup> to go back to the top level menus, then press button <sup>B</sup> again till the display shows:	Sð			
		or wait the timeout (20 seconds) to exit				
		ase refer to setting $F_3$ in the $F_F$ FORCE menu.				
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## SEQUENTIAL programming mode

This step-by-step programming procedure allows you full control of each setting and finer professional adjustments.



5.3

The control unit is preset to be programmed by SEQUENTIAL programming mode. Before starting this programming procedure make sure that the TORQUE/POWER is not set too high: in that case please adjust parameter **F** in **F F** menu to reduce it

If the control panel is programmed using this procedure, **obstacle detection** function is automatically **disabled**.

You can program the control panel with the sequential procedure using button A on the control panel or using a remote control previously saved.

1	Use I buttons to move inside the menu, till the display shows:	62
2	Press button A to confirm. The display shows:	ПІ
3	Press the <b>remote control</b> (or button <b>• (o)</b> on the control panel). • The gate starts closing (if open) and then opens again till the fully open position	
4	<ul> <li>When the gate is about to 90% of the opening path, press again the remote control (or button A on the control panel).</li> <li>The gate decelerates and continues opening.</li> </ul>	
5	When the gate has reached the fully open position, wait 2-3 seconds and then press again the remote control (or button A ) the gate starts closing till the fully closed position	
6	Press button <sup>B</sup> to go back to the top level menus, then press button <sup>B</sup> again till the display shows:	50
	or wait the timeout (20 seconds) to exit.	
	rther adjustments of the motors force are needed, please refer to setting F1	

#### 4.2.2 Restoring DEFAULT SETTINGS

The control panel comes with pre-set working parameters according to the automation model used. You can reset the control panel to the default settings as follows:

ΕЭ	}	Gear motor default settings	
	1	Use ●♠ ●♥ buttons to move inside the menu, till the display shows:	С Э
	2	Press and hold button A for about <b>5 seconds</b> .	
	3	Press button B to go back to the top level menus, then press button B again till the display shows:	Sd
		or wait the timeout (20 seconds) to exit.	

Press and hold button A for about 5 seconds.         3       Use A for about 5 seconds.         3       Use A for about 5 seconds.         4       A for about 5 seconds.         5       A for about 5 seconds.         4       Press button a for about 5 seconds.         5       A for about 5 seconds.         4       Press button a for about 5 seconds.         5       A for about 5 seconds.         6       Press button a for about 5 seconds.         6       Press button a for about 5 seconds.         6       Press button a for about 5 seconds.         7       A for about 5 seconds.         8       Image: Seconds for about 5 seconds.         9       Image: Seconds for about 5 seconds.         9       Image: Seconds for about 5 seconds.         9       Press and hold button a for about 5 seconds.         10       Image: Seconds for about 5 seconds.         11       Image: Seconds for about 5 seconds.         12       Press and hold button a for about 5 seconds.         13       Image: Seconds for about 5 seconds.         14       Image: Seconds for about 5 seconds.         15       Image: Seconds for about 5 seconds.         16       Image: Seconds for about 5 seconds.	Press and hold button ^ () for about 5 seconds.         3       Use () () () () () () () () () () () () ()	1 2 3	Press and hold button for about 5 seconds.	63
3       Use A by buttons to select: Gate opening from Left to <b>Right</b> (view from inside courtyard) Gate opening from Right to Left (view from inside courtyard)       0	3       Use A buttons to select: Gate opening from Left to Right (view from inside courtyard) Gate opening from Right to Left (view from inside courtyard)       0         4       Press button B a to go back to the top level menus, then press button B again till the display shows: or wait the timeout (20 seconds) to exit.       5         4.2.4 LIMIT SWITCHES mode selecting This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact) or with MAGNETIC LIMIT SWITCHES (N.O. contact)       7         4.2.4 LIMIT SWITCHES mode selecting This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)       7         4.2.4 LIMIT SWITCHES mode selecting This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)       7         4.2.4 LIMIT SWITCHES mode       1       1         4.2.4 LIMIT SWITCHES mode       1       1         4.2.4 LIMIT SWITCHES mode       1       1         7       Press and hold button A for about 5 seconds.       1         8       1       1       1       1         9       I Use A for about 5 seconds.       1       1         9       1       1       1       1       1         9       1       1       1       1       1         9       1       1       1       1       1       1         9       1       1 <th>_</th> <th></th> <th></th>	_		
Gate opening from Left to Right (view from inside courtyard)       U       U         Gate opening from Right to Left (view from inside courtyard)       U       U         Press button B       to go back to the top level menus, then press button B       gagain till the display shows:       5 d         or wait the timeout (20 seconds) to exit.       seconds) to exit.       42.4 LIMIT SWITCHES mode selecting       Final Action of the timeout (20 seconds) to exit.       5 d         A2.4 LIMIT SWITCHES mode selecting       This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)       5 d         Dor with MAGNETIC LIMIT SWITCHES (N.O. contact)       Use       Image: Contact (Contact)       1 Use         Use       A       Image: Contact (Contact)       Image: Contact (Contact)       1 Use       1 Use       1 Use       1 Use       1 Use       1 Use       1 Use Image: Contact (Contact)       1 U	Gate opening from Left to Right (view from inside courtyard)       U         Gate opening from Right to Left (view from inside courtyard)       0           I       Press button B (I) to go back to the top level menus, then press button B (I) again till the display shows:       5 d         or wait the timeout (20 seconds) to exit.       5 d         IIIII SWITCHES mode selecting       5 d         It use (I)	3		
or wait the timeout (20 seconds) to exit.         4.2.4 LIMIT SWITCHES mode selecting This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact) or with MAGNETIC LIMIT SWITCHES (N.O. contact)         II       Use A       Image: Comparison of the text of text of the text of text of the text of the text of text of text of text of the text of the text of	or wait the timeout (20 seconds) to exit.         A.2.4 LIMIT SWITCHES mode selecting this control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact) or with MAGNETIC LIMIT SWITCHES (N.O. contact)         IMIT SWICTHES mode         I         Use A       Image: Comparison of the temperature of temperature of the temperature of temperature		Gate opening from Left to <b>Right</b> (view from inside courtyard)	
or wait the timeout (20 seconds) to exit.         4.2.4 LIMIT SWITCHES mode selecting This control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact) or with MAGNETIC LIMIT SWITCHES (N.O. contact)         II       Use A       Image: Comparison of the text of text of the text of text of the text of the text of text of text of text of the text of the text of	or wait the timeout (20 seconds) to exit.         A.2.4 LIMIT SWITCHES mode selecting this control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact) or with MAGNETIC LIMIT SWITCHES (N.O. contact)         IMIT SWICTHES mode         I         Use A       Image: Comparison of the temperature of temperature of the temperature of temperature	1	Press button B o back to the top level menus, then press button B again till the display shows:	Sd
Inis control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)         In WIT SWICTHES mode         In Use        Image:	Image: Second control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)         Image: Second control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)         Image: Second control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)         Image: Image: Second control unit can be used with ELECTROMECHANICAL Limit Switches (N.C. contact)         Image: Image: Image: Image: Second control use with ELECTROMECHANICAL Limit Switches (N.C. contact)         Image: Imag			
<ul> <li>Use  button sto select: Use with ELECTROMECHANICAL Limit Switches (N.C. contact) Use with MAGNETIC Limit Switches (N.O. contact)</li> <li>Press button so go back to the top level menus, then press button so gain till the display shows:</li> </ul>	<ul> <li>Use  Use  buttons to select: Use with ELECTROMECHANICAL Limit Switches (N.C. contact) Use with MAGNETIC Limit Switches (N.O. contact)</li> <li>Press button <sup>3</sup> again till the display shows:</li> </ul>	1		۲ ٦
LIMIT SWICTHES mode         Use       Image: Ima	LIMIT SWICTHES mode         Use        ↓         Use        ↓         Press and hold button ^       ↓         for about 5 seconds.       ↓         Use        ↓         Use with ELECTROMECHANICAL Limit Switches (N.C. contact)       ↓         Use with MAGNETIC Limit Switches (N.O. contact)       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓         ↓       ↓       ↓	This	control unit can be used with ELECTROMECHANICAL LIMIT SWITCHES (N.C. contact)	
<ul> <li>Use  Use  buttons to select: Use with ELECTROMECHANICAL Limit Switches (N.C. contact) Use with MAGNETIC Limit Switches (N.O. contact)</li> <li>Press button s o go back to the top level menus, then press button s again till the display shows:</li> </ul>	<ul> <li>Use  Use  buttons to select: Use with ELECTROMECHANICAL Limit Switches (N.C. contact) Use with MAGNETIC Limit Switches (N.O. contact)</li> <li>Press button B again till the top level menus, then press button B again till the display shows:</li> </ul>		Use 💽 🌲 💽 🖤 buttons to move inside the menu, till the display shows:	۲ ٦
Use with <b>ELECTROMECHANICAL</b> Limit Switches (N.C. contact) Use with <b>MAGNETIC</b> Limit Switches (N.O. contact)	Use with <b>ELECTROMECHANICAL</b> Limit Switches (N.C. contact) Use with <b>MAGNETIC</b> Limit Switches (N.O. contact)	2	Press and hold button A for about 5 seconds.	
then press button B again till the display shows:	then press button B again till the display shows:	3	Use with <b>ELECTROMECHANICAL</b> Limit Switches (N.C. contact)	
or wait the timeout (20 seconds) to exit.	or wait the timeout (20 seconds) to exit.	4	Press button B to go back to the top level menus, then press button B again till the display shows:	Sð
			or wait the timeout (20 seconds) to exit.	

then pre		on A 💽 and use 💽 🌲 💽 🖤 to select menu 🛛 F F, button A 💽 to enter the FORCE menu: display will show F _	
		buttons to scroll the lower level menus:	
	. 0		
Fl		TORQUE/POWER adjustment	
	1	Use 💽 🌲 💽 I buttons to move inside the menu, till the display shows:	Fi
	2	Press button A to confirm. The display now shows the current torque/power level for motor :	010
			<b>1 (</b> ) (1
	3	Use $\square$ $\square$ buttons to change the motor torque/power level.	
	4	Press button <sup>B</sup> to go back to the top level menus,	Sd
		Then press button B dgain hill the display shows:	
		then press button B again till the display shows: or wait the timeout (20 seconds) to exit.	
F 3			
F 3	1	or wait the timeout (20 seconds) to exit.	F3
F3		or wait the timeout (20 seconds) to exit. OBSTACLE DETECTION adjustment	
F3	1	or wait the timeout (20 seconds) to exit.         OBSTACLE DETECTION adjustment         Use       Image: Second s	
<b>F 3</b>	1	or wait the timeout (20 seconds) to exit.         OBSTACLE DETECTION adjustment         Use       Image: I	
<b>F 3</b>	1 2 3	or wait the timeout (20 seconds) to exit.         OBSTACLE DETECTION adjustment         Use       Image: I	
F3	1 2 3	or wait the timeout (20 seconds) to exit.         OBSTACLE DETECTION adjustment         Use       Image: I	

4.4	Н						
<b>i</b> = fi	Jse this menu to enable/disable special settings. I = function is <b>ON</b> I = function is <b>OFF</b>						
Press	butto	on A 💽 and use 💽 🛔 💽 🖤 to select menu 🖁 🛱 ,					
then p	oress	button A other the FUNCTIONS menu: display will show	-				
Use	Use <b>D</b> buttons to scroll the lower level menus:						
HI		MULTI-OCCUPATION Function					
	at	s function grants <b>priority to the opening command</b> ; when two people the same time the first opening command prevails, while opening th y further command.	-				
	1	Use 💽 🌲 💽 🖤 buttons to move inside the menu, till the display	r shows:	HI			
	2	Press button A to confirm.					
	3		PATION Function <b>OFF</b> PATION Function <b>ON</b>	0 0 0 I			
	4	Press button <sup>a</sup> o go back to the top level menus, then press button <sup>a</sup> o gain till the display shows:		58			
		or wait the timeout (20 seconds) to exit.					
Н2	1	PRE-BLINKING Function					
	Thi	is function makes the flashing light <b>pre-blinking</b> for <b>4-5 seconds</b> be	fore the gate starts openin	g.			
	1	Use 💽 🌲 💽 🦞 buttons to move inside the menu, till the display	shows:	H2			
	2	Press button A to confirm.					
	3		BLINKING Function <b>OFF</b> BLINKING Function <b>ON</b>	0 0 0 I			
	4	Press button <sup>B</sup> to go back to the top level menus, then press button <sup>B</sup> again till the display shows:		58			
		or wait the timeout (20 seconds) to exit.					

	s function decelerates the leafs at the end of the opening/closing cycle.	
	<ul> <li>modes for deceleration can be chosen:</li> <li>Standard DECELERATION         <ul> <li>(the gate directly slows down from standard travel to decelerated speed)</li> <li>Soft DECELERATION                 (the gate gradually slows down from standard travel to decelerated speed)</li> </ul> </li> </ul>	
1	Use 💽 🌲 💽 🦞 buttons to move inside the menu, till the display shows:	НЗ
2	Press button A 💽 to confirm.	
3	Use Use Use Use Use DECELERATION Function OFF DECELERATION Function ON Soft DECELERATION function ON	00 01 02
4	Press button B o back to the top level menus, then press button B again till the display shows:	Sd
	or wait the timeout (20 seconds) to exit.	
F	PHOTOCELLS TEST Function	
		omake
1	Use 💽 🌲 💽 🖤 buttons to move inside the menu, till the display shows:	НЧ
2	Press button A to confirm.	
3	Use Def buttons to select: PHOTOCELLS TEST Function <b>OFF</b> PHOTOCELLS TEST Function <b>ON</b>	0 0 0 I
4	Press button <sup>B</sup> og back to the top level menus, then press button <sup>B</sup> again till the display shows:	Sd
	or wait the timeout (20 seconds) to exit.	
	START PULSE Function	
		•
1	Use <b>I</b> Use buttons to move inside the menu, till the display shows:	НЛ
2	Press button A o confirm.	
3	Use Def buttons to select: START PULSE Function <b>OFF</b> START PULSE Function <b>ON</b>	0 0 0 I
4	Press button B to go back to the top level menus, then press button B again till the display shows:	Sd
	2 3 4 If th sur 1 2 3 4 This ga 1 2	(the gate gradually slows down from standard travel to decelerated speed)         Use A box to move inside the menu, till the display shows:         Press button A box to confirm.         Use A box to confirm.         DECELERATION Function OFF DECELERATION Function ON Soft DECELERATION function ON         Press button B box to gap back to the top level menus, then press button B box to gap again till the display shows: or wait the timeout (20 seconds) to exit.         If this function is enabled, the control panel performs a quick start-up test with the photocells to sure that they are in operation.         Use A box to firm.         Use A box to gap again till the display shows: or wait the timeout (20 seconds) to exit.         Press button A box to gap again till the display shows: or wait the timeout (20 seconds) to exit.         Press button B box to gap again till the display shows: or wait the timeout (20 seconds) to exit.         This setting makes the motor operate full power for 1 second when starting opening to overcome gate inertia due to cold weather or long inactivity.         Use A A A C to confirm.         Use A A A A A A A A A A A A A A A A A A A

	QUICK CLOSING	Function		
	is setting makes the g aiting for the entire p	-	ter the car has gone through the photocells beam	, without
1	Use 💽 🌲 💽 🖤	buttons to move inside	the menu, till the display shows:	H 8
2	Press button	to confirm.		
3	Use 💽 🏚 💽 🖤	buttons to select:	QUICK CLOSING Function <b>OFF</b> QUICK CLOSING Function <b>ON</b>	0 0 0 I
4		to go back to the top le B () again till the displa		5 ८
		t (20 seconds) to exit.		
To - c	use this function, you opening push-button			
1	Use ●↓ ●♥	buttons to move inside	the menu, till the display shows:	НЯ
2	Press button A	to confirm.		_
3	Use 🂽 🌲 💽 🖤	buttons to select:	SEPARATE PUSH-BUTTONS Function <b>OFF</b> SEPARATE PUSH-BUTTONS Function <b>ON</b>	0 0 0 1
4		to go back to the top le B () again till the displa		5 ८
	or wait the timeout	t (20 seconds) to exit.		
			erforms a quick start-up test operation.	
1	Use <b>⊡ ▲ ● ₩</b>	buttons to move inside	the menu, till the display shows:	нc
2	Press button	to confirm.		
3	Use 💽 🌲 💽 🖤	buttons to select:	MOTOR TEST Function <b>OFF</b> MOTOR TEST Function <b>ON</b>	0 0 0 I
		to go back to the top I	evel menus,	Sd

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ΗL		FLASHING LIGHT mode selection	
	Use	e these settings to select the signal mode of the falshing light according to the blinker model yo	ou have.
	1	Use 💽♣ 💽₩ buttons to move inside the menu, till the display shows:	HL
	2	Press button A 💽 to confirm	
	3	Use 💽 🌲 💽 🤍 buttons to select: BLINKING signal (Standard Flashing Light) FIX signal (LED Flashing Light)	0 0 0 I
	4	Press button <sup>B</sup> og back to the top level menus, then press button <sup>B</sup> again till the display shows:	Sd
		or wait the timeout (20 seconds) to exit.	
HP	DI	AD MAN'S SWITCH Mode	
	hc Wi If t	e these settings to control the gate by a <b>DEAD MAN'S SWITCH</b> . The gate opens/closes only if t Id pressed, as soon as the button is released the gate stops opening/closing. rings to the push-buttons have to be separated as follows: <b>START</b> plug <b>PEDESTRIAN START</b> plug <b>OPENING</b> push-button <b>PEDESTRIAN START</b> plug <b>CLOSING</b> push buttons his function is enabled any other radio command will be ignored and all safety systems (obstation otocells, sensitive edges,) are not working.	
	1	Use 💽 🌲 💽 ្ buttons to move inside the menu, till the display shows:	НP
	2	Press button A to confirm	
	3	Use Definitions to select: STANDARD opening/closing mode DEAD MAN'S SWITCH opening/closing mode	0 0 0 I
	4	Press button B o go back to the top level menus, then press button B again till the display shows:	Sd
		or wait the timeout (20 seconds) to exit.	

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4.5	Ľ	L TIMES menu	
Use th	is me	enu to adjust motors operating time and pause time before automatic closing.	
		n A 💽 and use 💽 🌲 💽 🖤 to select menu 📙 📙 ,	
then p	oress	button A 💽 to enter the TIMES menu: display will show 上 💶	
Use	<b>!</b>	$\mathbb{P}$ $\mathbb{P}$ buttons to scroll the lower level menus:	
L 3		AUTOMATIC CLOSING Pause time	
	Us	e this menu set the pause time for the Automatic Closing (from <b>0</b> to <b>99 seconds</b> ).	
	1	Use	
	2	Press button A to confirm.	L 3
	3	Use 💽 🌲 💽 🖤 buttons to set the pause time for automatic closing:	
			 <b>9 9</b> (max)
	4	Press button <sup>B</sup> to go back to the top level menus,	5d
		then press button B 💽 again till the display shows: or wait the timeout (20 seconds) to exit.	50
			_
LY		PEDESTRIAN AUTOMATIC CLOSING Pause time	
	Use	e this menu set the pause time for the Pedestrian Automatic Closing (from <b>0</b> to <b>99 seconds</b> ).	
	1	Use 💽 ♣ 💽 ₩ buttons to move inside the menu, till the display shows:	LЧ
	2	Press button A 💽 to confirm.	
	3	Use . ■ ♣ . ■ ♥ buttons to set the pause time for Pedestrian automatic closing:	00(OFF) 01
			<b>9 9</b> (max)
	4	Press button B o back to the top level menus, then press button B again till the display shows:	Sd
		or wait the timeout (20 seconds) to exit.	

## OPERATING TIME

Motor's operating time is controlled by limit switches. In case of fault of the limit switches the motor will stop running in any case after 120 seconds.

Use this setting to adjust opening/closing deceleration time for motor (from 1 to 10 seconds).         Before adjusting this setting, please make sure that parameter H ∃ in H H FUNCTIONS mer         H ∃ = / Deceleration ON         1       Use ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	L 7
<ul> <li>H ∃ = / Deceleration ON</li> <li>1 Use  buttons to move inside the menu, till the display shows:</li> <li>2 Press button ▲ to confirm.</li> <li>3 Use  buttons to reduce/increase motor deceleration time:</li> <li>4 Press button B to go back to the top level menus, then press button B again till the display shows:</li> </ul>	L 7 0 0(OFF) 0 1 (min) 1 0 (max)
<ul> <li>2 Press button A to confirm.</li> <li>3 Use A buttons to reduce/increase motor deceleration time:</li> <li>4 Press button B to go back to the top level menus, then press button B again till the display shows:</li> </ul>	00(OFF) 01 (min)
3       Use       Use	<b>0 1</b> (min) <b>10</b> (max)
<ul> <li>Press button B to go back to the top level menus, then press button B again till the display shows:</li> </ul>	0   (min)  1 0 (max)
then press button B again till the display shows:	
then press button B again till the display shows:	58
or wait the timeout (20 seconds) to exit.	
L 9 PEDESTRIAN OPENING TIME	
Use this setting to adjust operating time for <b>Pedestrian Opening for gate</b> (from <b>1</b> to <b>20 seconds</b> ).	
1 Use I buttons to move inside the menu, till the display shows:	L 9
2 Press button A to confirm.	
3 Use OF buttons to set Motor 1 Pedestrian opening time:	(total opening)
	<b>[]  </b> (min)
	 <b>2 ()</b> (max)
<ul> <li>4 Press button B to go back to the top level menus,</li> <li>then press button B again till the display shows:</li> </ul>	Sd
or wait the timeout (20 seconds) to exit.	

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.6	P	P ACCESSORIES menu	
se this	me	nu to manage terminals for wiring the accessories (controls and safety devices).	
ess bu	utto	n A 💽 and use 💽 🏚 💽 🖤 to select menu 🏱 Р,	
ien pre	ess I	outton A 💽 to enter the ACCESSORIES menu: display will show P 💶	
se 🢽		buttons to scroll the lower level menus:	
PI	E	EMERGENCY STOP terminals	
	1	Use <b>I</b> Use buttons to move inside the menu, till the display shows:	PI
	2	Press button 🔊 to confirm.	
	3	Use D buttons to select:	00
		STOP Push-button – <b>NOT WIRED</b> STOP Push-button - <b>WIRED</b>	01
	4	Press button B o back to the top level menus, then press button B again till the display shows:	Sd
		or wait the timeout (20 seconds) to exit.	
2 י		CLOSING PHOTOCELLS terminals	
	1	Use 💽 ♣ 💽 ₩ buttons to move inside the menu, till the display shows:	P 2
	2	Press button A 💽 to confirm.	
	3	Use <b>I D W</b> buttons to select: CLOSING Photocells - <b>NOT WIRED</b>	00
		CLOSING Photocells - WIRED 8K2 Safety Edge	01
_	4	Press button B O back to the top level menus,	02
	4	then press button B () again till the display shows:	58
		or wait the timeout (20 seconds) to exit.	
ר ח			
P 3		OPENING PHOTOCELLS / SAFETY EDGE terminals	
_	1	Use 💽 🌲 💽 🖤 buttons to move inside the menu, till the display shows:	P 3
	2	Press button A to confirm.	
	3	Usare i tasti 	0 0 0 I
		Standard Safety Edge (NC contact) - WIRED 8K2 Safety Edge - WIRED	02 03
	4	Press button B to go back to the top level menus, then press button B again till the display shows:	Sð
		or wait the timeout (20 seconds) to exit.	

# 5. TROUBLE-SHOOTING

English

Display	Issue	Possible Reasons	Solutions
8.8.	DISPLAY	Power-cut	Check main power supply
<u>U.U.</u>	OFF	Burnt fuses	Replace the fuses
		Transformer problem	Check all connections and input/output voltage
		Misalignment of the photocells	Check transmitter and receiver position/alignment
FC	CLOSING PHOTOCELLS	Obstacle disturbing the photocells beam	Check and remove the obstacle. Also check the photocells eye and remove any dust or dirty deposit.
		Incorrect wiring	Check all electrical wirings following the diagram
		Photocell not powered	Check power and voltage both on receiving and transmitting photocell
		Closing photocells not wired	Wire the photocells or disabled corresponding parameter (please refer to paragraph <b>3.6.1</b> )
	OPENING	Misalignment of the photocells	Check transmitter and receiver position/alignment
FR	PHOTCELLS	Obstacle disturbing the photocells beam	Check and remove the obstacle. Also check the photocells eye and remove any dust or dirty deposit
		Incorrect wiring	Check all electrical wirings following the diagram
		Photocell not powered	Check power and voltage both on receiving and transmitting photocell
		Opening photocells not wired	Wire the photocells or disable corresponding parameter (please refer to paragraph <b>3.6.2</b> )
FΕ	PHOTOCELLS	Incorrect wiring	Check all electrical wirings following the diagram
ГС	TEST FAILED	Unfitting photocells	Please install original photocells
SP	EMERGENCY	Incorrect wiring	Check all electrical wirings following the diagram (paragraph 3.5)
זר	STOP	Emergency STOP push-button not wired	Wire the STOP push-button or disable corresponding parameter (please see paragraph <b>3.5</b> )
ST	START COMMAND	The control panel is receiving a continuous START command	Make sure that all START controls connect are properly working and correctly wired (N.O. contact)
Рd	PEDESTRIAN START COMMAND	The control panel is receiving a continuous PEDESTRIAN START command	Make sure that all PEDESTRIAN START controls connect are properly working and correctly wired (N.O. contact)
ΠE	MOTORS TEST FAILED	Motors not wired	Wire the motors as shown in the diagram
		Incorrect wiring	Check motors electrical wiring (please see paragraph 3.3)
		Electrical coil broken	Use a tester to check the coil status
EL	LIMIT SWITCHES	Faulty limit switch	Replace the limit switch
		Lack in wirings	Heck wirings to control unit and limit switch
0 2 1 0	RADIO	The control panel is continuously receiving a radio command	Check all keys of the remote controls. Make sure that there is no stuck key (led on the remote control always on If needed remove the battery from the remote control and check that the error message disappears from the display
50			
бЧ			

## 6. **DISPOSAL**

## Do not pollute the environment

Some electronic components may contain polluting substances. Ensure materials are passed to the authorised collection centres, according to the laws and the regulations on force, for safe disposal.

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## ANNEX 1 - Table for PROGRAMMING



= DEFAUL Settings

88	RADIO MenU		
81	SAVING a new remote control – START command		0164 (max) F L = memory is full
82	SAVING a new remote control – PEDESTRIAN START command		0164 (max) F L = memory is full
83	SAVING a new remote control – 2° RADIO CHANNEL With optional AUX module only		0164 (max) F L = memory is full
84	DELETING an existing remote control code		0164
85	DELETING ALL stored remote controls		
<u> </u>	PROGRAMMING Menu		
C I	AUTOMATIC Programming Procedure with OBSTACLE DETECTION		
62	SEQUENTIAL Programming Procedure	_	
Е Э	Reset to Default Settings for RAM openers		
٤ ۵	OPENING DIRECTION of the motor	00 = R 01 = L	
٢٦	LIMIT SWITCHES mode selection		ELECTROMECHANICAL
FF	FORCE Menu		
Fl	TORQUE/POWER adjustment		
FЗ	OBSTACLE DETECTION level adjustment		
	SPECIAL FUNCTIONS Menu		
ΗI	MULTI-OCCUPATION Function	<b>0 0</b> = OFF	0 ] = ON
Н2	PRE-BLINKING Function	<b>0 0</b> = OFF	
ΗЗ	DECELERATION Fuction	<b>0 0</b> = OFF	0 ] = ON 🔤
НЧ	PHOTOCELLS TEST Function	<b>0 0</b> = OFF	0 ] = ON 🔤
ר א	START PULSE Function	<b>0 0</b> = OFF	归 🛛 ] = ON
H 8	QUICK CLOSING Function	<b>0 0</b> = OFF	<b>I</b> ] = ON
HЯ	SEPARATE PUSH-BUTTONS Function	<b>0 0</b> = OFF	<b>I</b> ] = ON
НС	MOTORS TEST Function	<b>0 0</b> = OFF	0 ] = ON [
ΗL	FLASHING LIGHT mode	00=flash 01=FIX (	
HР	DEAD MAN'S SWITCH mode		NDARD mode .D MAN'S SWITCH mode

LL	TIMES Menu	
LЗ	AUTOMATIC CLOSING pause time	0 0 = OFF 0 1 (min) 3 () 9 9 (max)
LЧ	PEDESTRIAN CLOSING pause time	00=OFF 01(min)7(1)99(max)
L 7	DECELERATION TIME	0 0 = OFF 0 1 (min) 7 (🕒) 10 (max)
L 9	PEDESTRIAN OPENING time	0 0 = OFF 0 1 (min) 7 (🕒) 2 0 (max)
PP	ACCESSORIES Menu	
PI	EMERGENCY STOP terminals	<pre> 0 0 = DISABLED 0 1 = ENABLED/WIRED </pre>
P 2	CLOSING PHOTOCELLS terminals	<pre> 0 0 = DISABLED 0 1 = ENABLED/WIRED </pre>
Ρ3	OPENING PHOTOCELLS/ SAFETY EDGE terminals	<ul> <li>D = DISABLED</li> <li>1 = Opening photocells WIRED</li> <li>2 = Safety Edge (NC) WIRED</li> <li>3 = Safety Edge 8K2 WIRED</li> </ul>

# Display MESSAGES

	Stand-by. Control Panel ready to work
۶C	Closing PHOTOCELLS operating
F R	Opening PHOTOCELLS operating
SP	STOP command operating
ST	START command operating
Рd	PEDESTRIAN START command operating
r -	Receiving a radio code (12 bit)
r d	Receiving a radio code (24 bit)
8	Obstacle detection intervention
Sd	Programming settings have been saved
88	Rotating segments: motors running
	Small dots: brightness of the dot is proportional to the force settings
	Q805 2014



# **CE** COMPLIANCE DECLARATION

Manufacturer: **PROTECO S.r.l.** Address: Via Neive, 77 – 12050 Castagnito (CN) – ITALIA

declares that

The product type: **Q80A** electronic controller for sliding gate automation (1 motor), 220V Models: PQ80S Accessories: MRX01

Is built to be integrated into a machine or to be assembled with other machinery to crate a machine under provisions of 2006/42/EC Machinery Directive.

It complies with the essential requirements of EEC Directives:

2006/95/EC Low Voltage Directive

2004/108/EC Electromagnetic Compatibility Directive

**R&TTE 99/5** Radio & Telecommunications Terminal Equipments Directive

The manufacturer declares that the start-up of the machinery is not permitted unless the machine, in which the product is incorporated or of which is becoming a component, has been identified and declared as conformed to 2006/42/EC Machinery Directive.

Note: These products have undergone test in a typical uniform configuration

Castagnito, May 26<sup>th</sup> 2014

Angela Gallo Managing Director Juno Auple Jarie