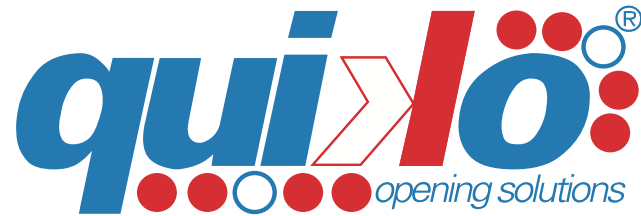


USER MANUAL

GEARMOTOR
FOR GARAGE DOORS



ENG

BOXTER



WARNING!! Before installing, thoroughly read this manual that is an integral part of the pack



V03/2016

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PACKING CONTENTS

- 1- MOTOR WITH CARTER AND COURTESY LIGHT
- 1- PACK OF ACCESSORIES
- 1- CAPACITOR

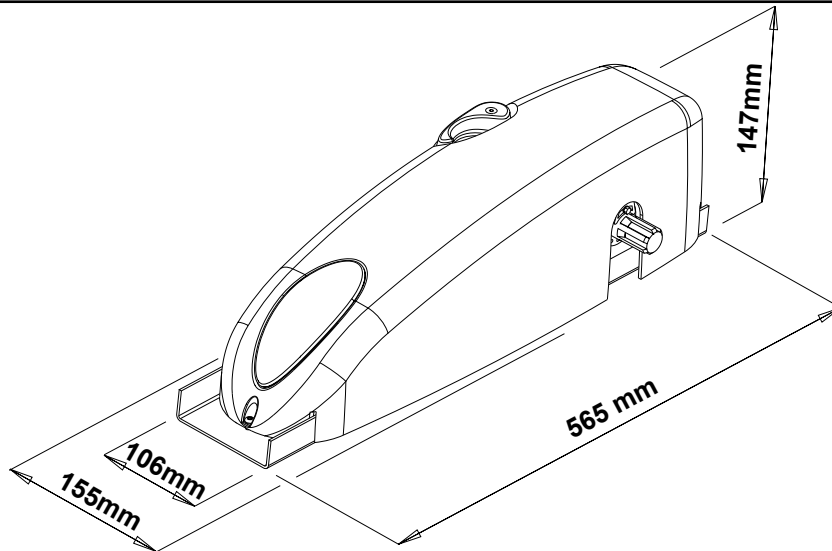
OPTIONAL

- 1- CONTROL BOARD WITH RECEIVER

TECHNICAL DATA

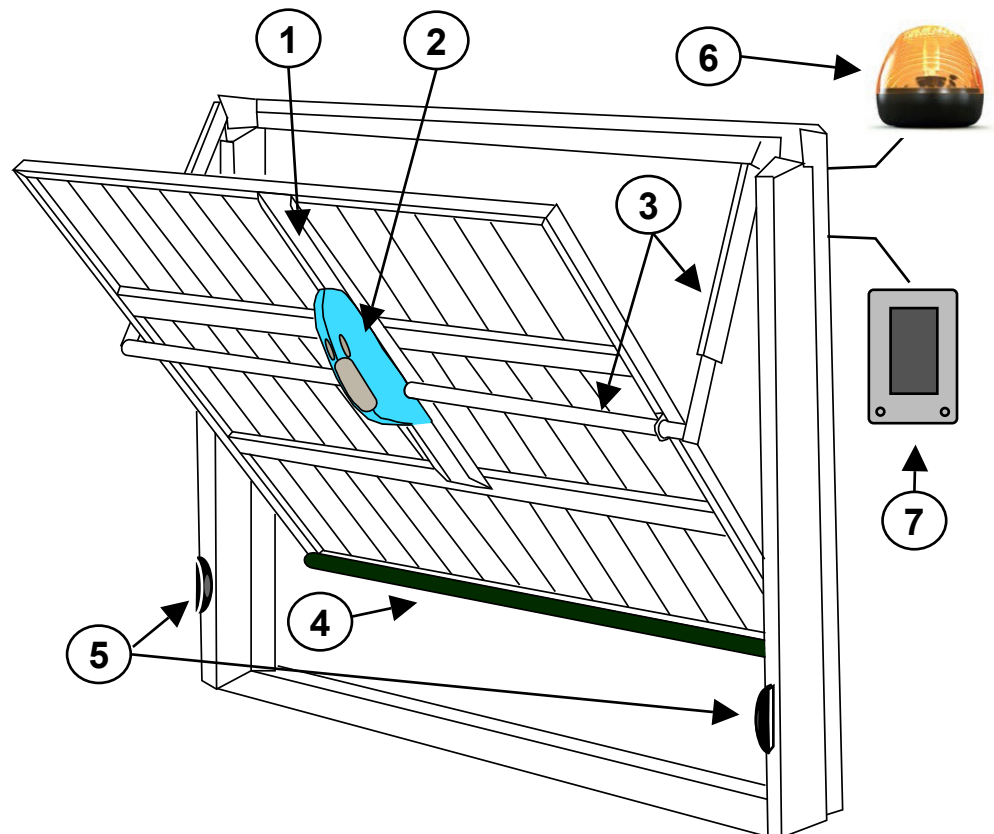
	230V	24V
Max door width	10 mq	
Motor power supply	230Vac	24Vdc
Motor power	250 W	50W
Motor rpm	1400	1800
Capacitor	12,5 µF	/
Average power consumption	1.3 A	3 A
Mechanical release for emergency operation	Indoor use with possibility of outdoor use	
Working temperature	-20° C / +55° C	
Weight	8Kg	
Protection rating	IP 30	
Limit switch	Electromechanical	

DIMENSIONS



VIEW OF TYPICAL AUTOMATION AND NAMES OF COMPONENTS

1. FIXING PLATE OF THE MOTOR
2. MOTOR
3. ARMS KIT
4. SAFETY EDGE
5. PHOTOCELLS
6. FLASHING LIGHT + ANTENNA
7. CONTROL BOARD (IF NOT INCLUDED IN THE MOTOR)



CONSIDERATIONS FOR INSTALLATION

- The installation and testing operations must be performed only by qualified personnel in order to ensure the proper and safe operation of the automated door.
- The manufacturer declines all responsibility for damages caused by incorrect installations due to incompetence and/or negligence.
- Before installing the automation, check that the door is perfectly working and balanced.

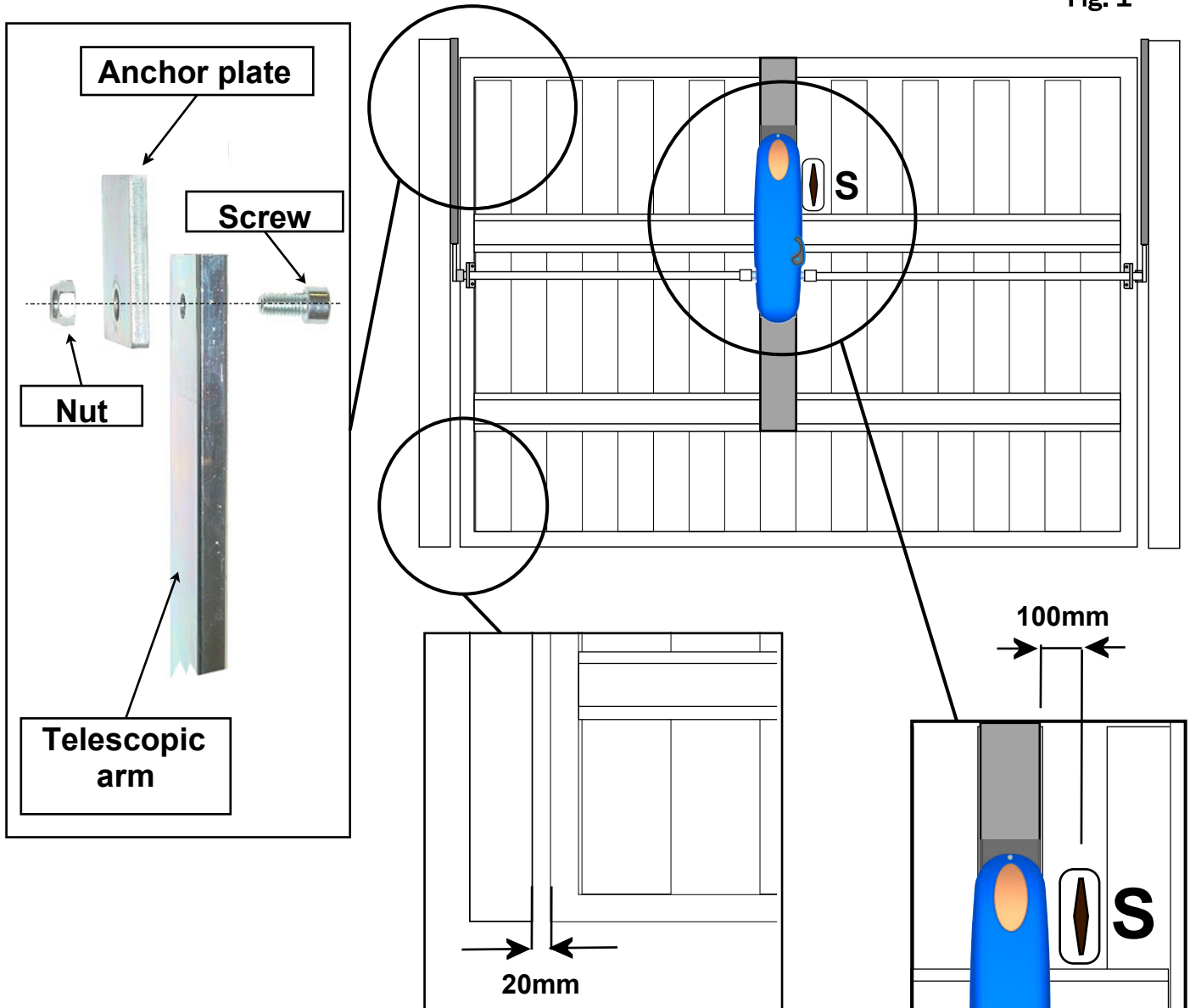
Note: The increase of counterweights is equal to the weight of the frame that you will install on the door in addition to the weight of the motor.

INSTALLATION

Place and securely fix the anchor plate of the telescopic arm to the door frame so that the movement of the arm does not overlap with the existing arm of the door. Make sure there are at least 20 mm of space between the door frame and the box of the counterweights.

Note: If you are not able to use the straight telescopic arm, use the curved one

Fig. 1



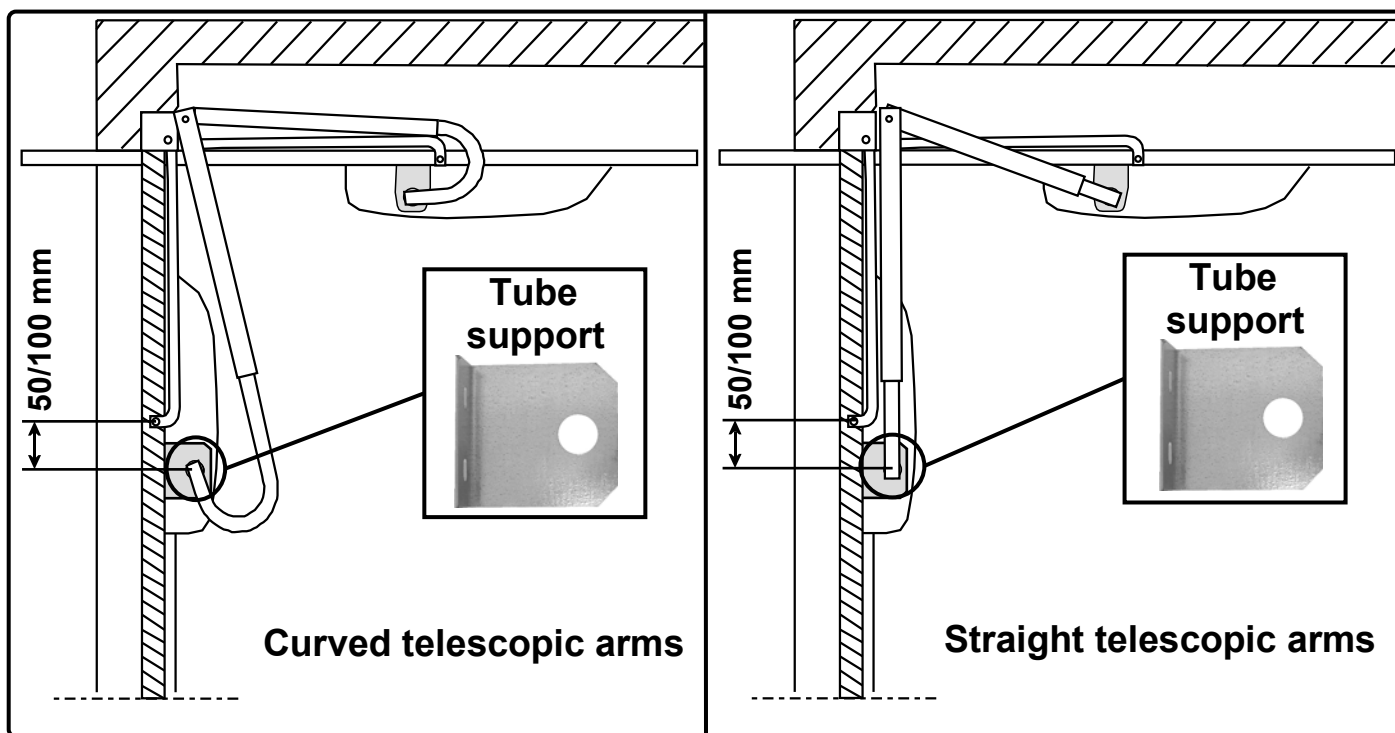
EXAMPLE AUTOMATION ONE MOTOR WITH CENTRAL INSTALLATION

INSTALLATION OF THE FIXING PLATE

Place the fixing plate L motor support to the door, at a distance of **100 mm** from the lock **S** of the door and fix securely.

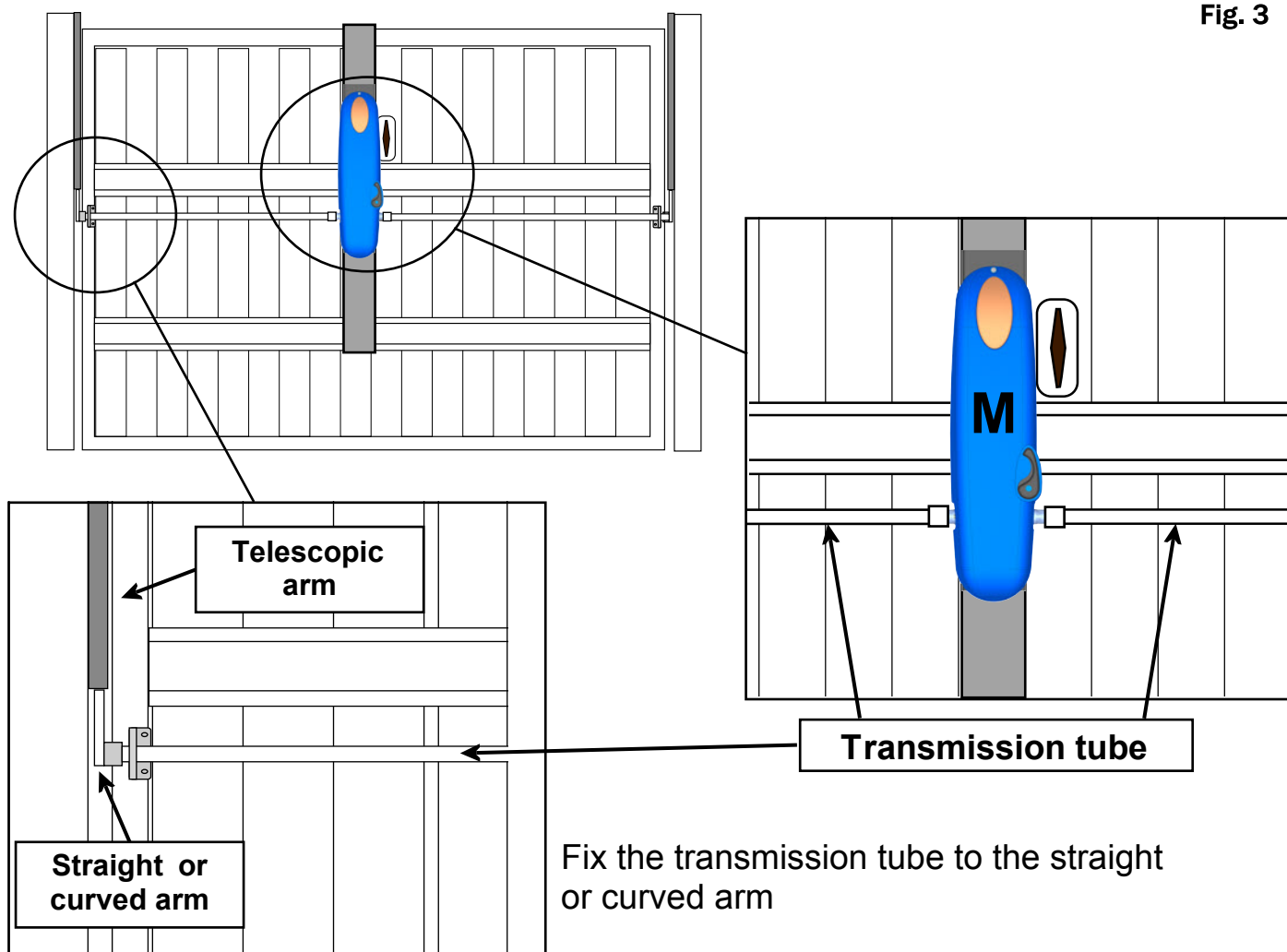
Place and securely fix the tube support to the door frame, at a distance between **50** and **100** mm downwards by taking as reference the attachment pin of the existing arm..

Fig. 2



Place the motor **M** on the fixing plate so that the pinions are in line with the tubes and lock it.

Fig. 3

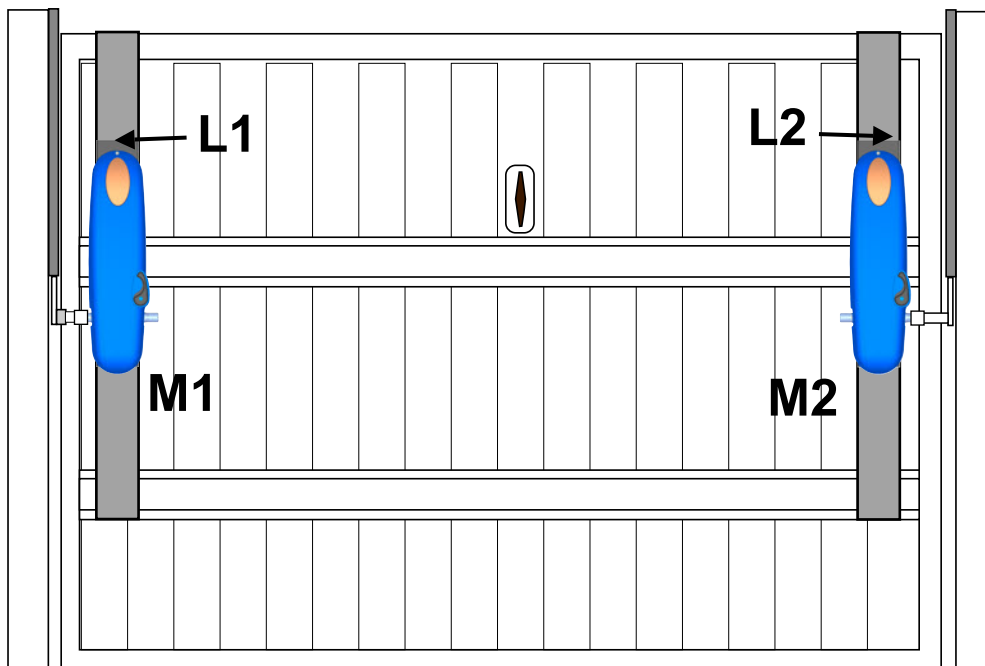


EXAMPLE AUTOMATION TWO MOTORS WITH LATERAL INSTALLATION

INSTALLATION OF THE LATERAL FIXING PLATES

Place the fixing plates L motor support to the door as illustrated.

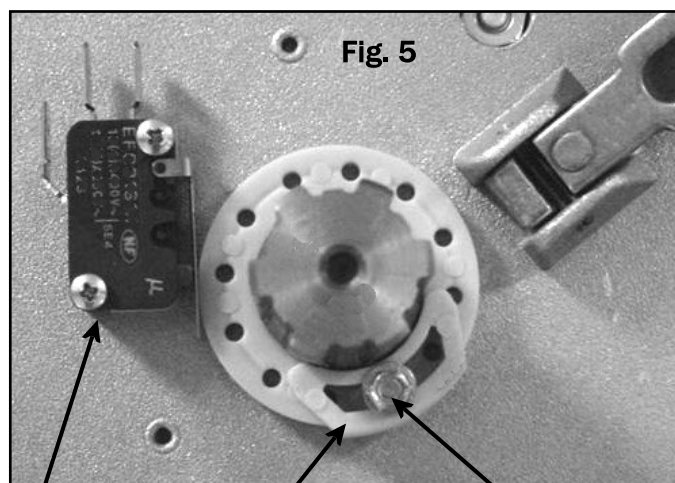
Fig. 4



Place and fix the motors on the fixing plates so that they are in line with the broaching arms at a distance between **50** and **100** mm downwards by taking as reference the attachment pin of the existing arm (**fig 2**). Insert the broaching arms (straight or curved) on the motor shaft and lock it.

LIMIT SWITCH ADJUSTMENT

- **Close the door.**
 - Place the limit switch (C) in order to touch the lever of the microswitch of the closing limit switch and tighten the screw.
 - **Open the door.**
 - Place the limit switch (C) in order to touch the lever of the microswitch of the opening limit switch and tighten the screw.
- (See also the specifications of the control panel)



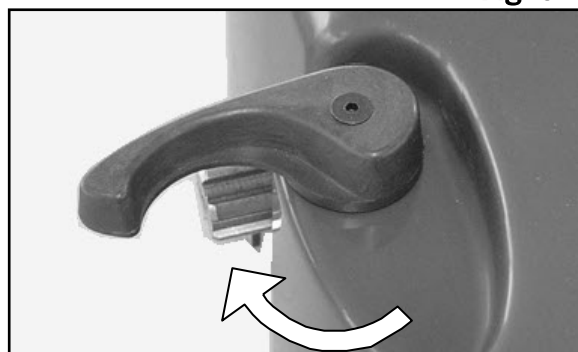
Microswitch Limit switch C Screw

MANUAL RELEASE

In case of lack of electric power, the motor can be manually unlocked with the lever by performing a rotation of about 90°. To block bring back the release lever to its original position.

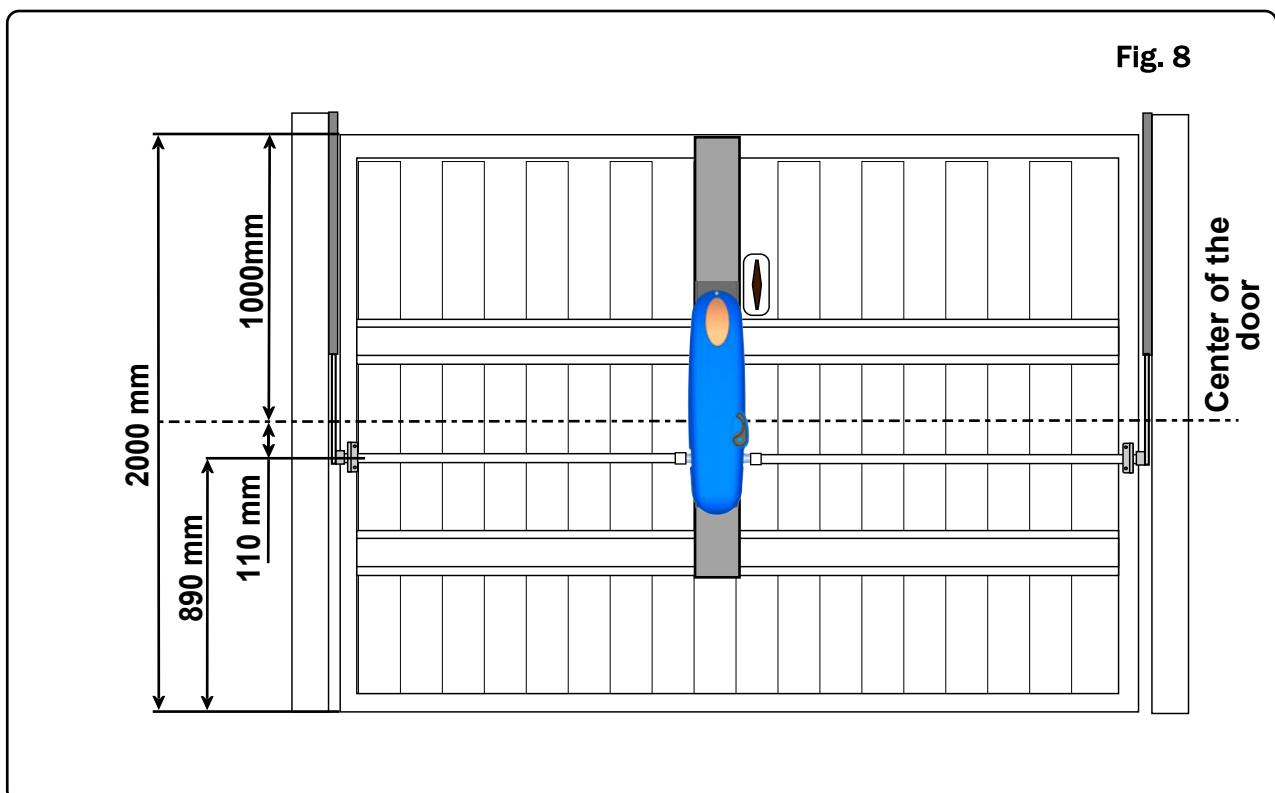
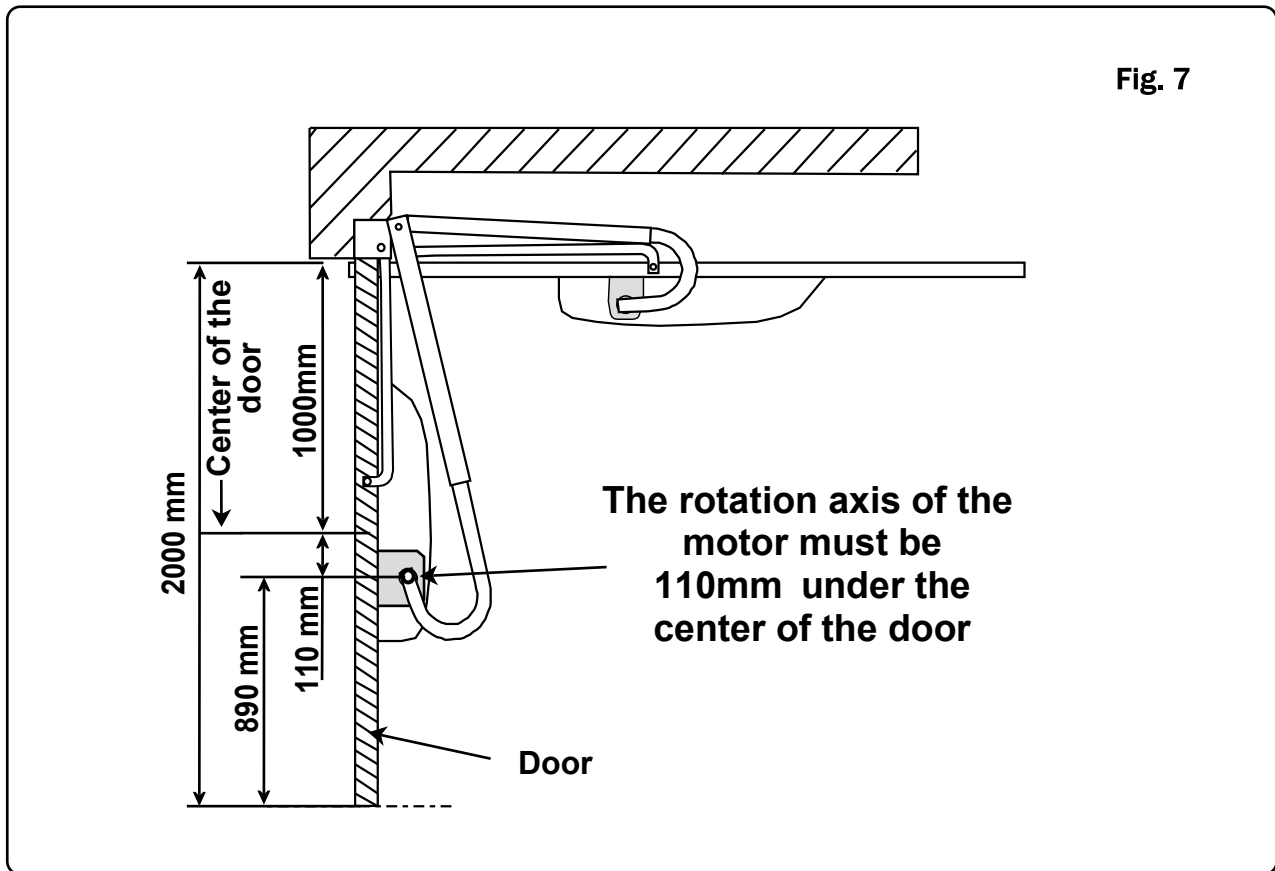
Apply the external lock (**OPTIONAL**) to unlock the motor from the outside in case of power failure.

Fig. 6



EXAMPLE AUTOMATION WITH NON-PROJECTING DOOR

Place and securely fix the tube support to the door frame, at a distance of **110 mm** under the center of the door (**look at fig. 7-8**)



TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
On giving a command with the remote control or with the key-switch, the door doesn't open or the motor doesn't start	230 volt mains voltage absent	Check master switch
	Emergency STOP present	Check for any STOP selectors or commands. If not used, check jumper on STOP contact input on the control board
	Fuse blown	Replace with one of same value.
	Power cable of motor or motors not connected or faulty.	Connect the cable to appropriate terminal or replace.
	The photocell is not functioning or the beam is interrupted	Check the connection, remove any obstacle across the beam
On giving a command with the remote control, the door doesn't open but works with the key command	The remote control has not been memorised or the battery is flat	Carry out the remote control learning procedure on the radio receiver or replace the battery with a new one..
The door starts, but stops immediately	The force of the motor or motors is insufficient	Modify the value with the FORCE trimmer on the control unit
On giving a command, the motor starts, but the door does not move	There is an obstacle in front of the wings, the hinges are blocked or the motor anchorage bracket or brackets have come loose	Remove the obstacle from the wings, restore the hinges, replace or lubricate them. Fasten the motor bracket

N.B. - If the problem persists, contact your Retailer or the nearest Service Centre

DECLARATION OF CONFORMITY

(OF THE MANUFACTURER)



Manufacturer: QUIKO ITALY SAS

Via Seccalegno, 19
36040 Sossano (VI)
Italia

hereby declares, under his liability, that the products:
QK-B24 , QK-B220

are in compliance with the essential safety requirements of the regulations:

Electromagnetic Compatibility Directive2004/108/EC
Low Voltage Directive2006/95/EC
Machinery Directive2006/42/EC

and their amendments and modifications, and with the regulations set forth by the National Legislative Body of the country in which the machinery is destined for use.

Sossano, 1/1/2016

Managing Director
Luca Borinato



DECLARATION OF CONFORMITY
(OF THE INSTALLER)

The undersigned:

in charge of the set-up, declares that the product:

Gate type:

are in compliance with the essential safety requirements of the regulations:

Electro magnetic Compatibility Directive2004/108/EC

Low Voltage Directive2006/95/EC

Machinery Directive2006/42/EC

and also declares that the related and/or specific national technical regulations have been followed:

EN 12453/EN 12445 on Industrial, Commercial and Residential Gates and Doors – Safe Use of Motorized Doors – Requirements and Classification – Test Methods;

EN 12604/ EN 12605 on Industrial, Commercial and Residential Gates and Doors – Mechanical Aspects – Requirements and Classification – Test Methods;

CEI 64/8 Electrical Systems Using Nominal Tension Not Higher Than 1000V a.c. and 1500 V d.c.;

EN 13241-1 (Industrial, commercial and garage doors and gates), conformity evaluation (6.3).

Notes:

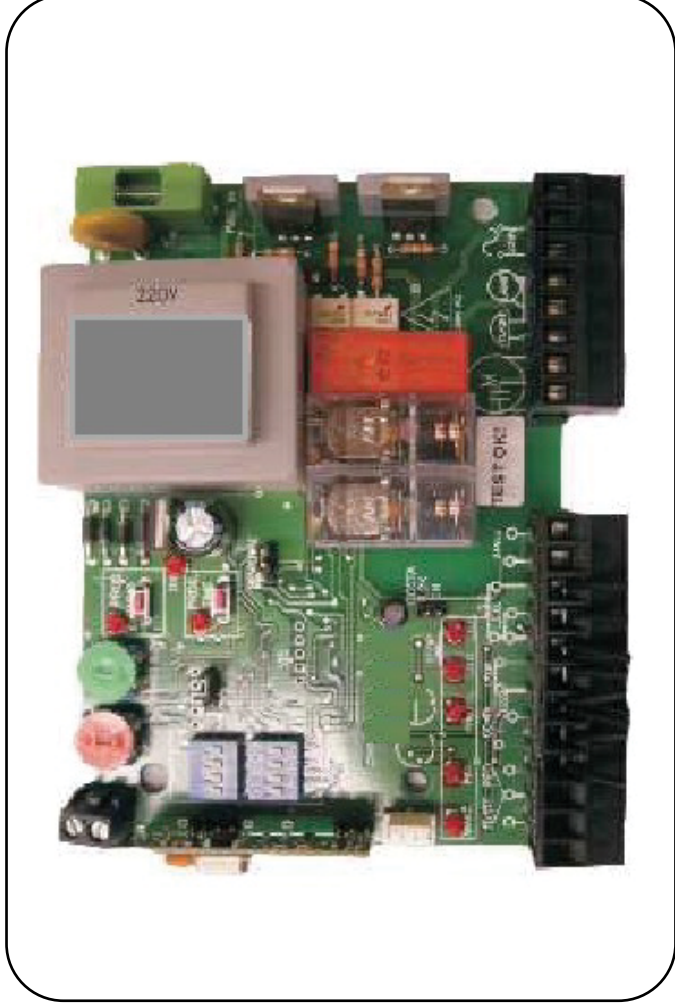
Place and date:



I MANUALE D'ISTRUZIONE
E ISTRUCCIONES DE USO
GB INSTRUCTION MANUAL
F MODE D'EMPLOI

QK-CE220BASC

V02/2016



Apparecchiatura di comando 1 Motore 230Vac
Cuadro electronico para uno motores 230Vac
Electronic control panel for one 230Vac motor
Dispositifélectronique de commande 1 moteur 230Vac

Declaration of Conformity

Quiko Italy - Via Seccalegno, 19 Sossano (VI) Italy

declares under its own responsibility that the product

Control board QK-CE220BASC

Complies with the main safety requirements issued by the following Directives:

--> Radio Sets - 1999/05/EC

--> Low Voltage - 2006/95/EC

--> Electromagnetic Compatibility - 2004/108/EC

and any revisions thereof, and complies with the provisions that implement said directives in the

National Legislation of the Country of destination where the products are to be used.

ATTENZIONE!! Prima di effettuare l'installazione, leggere attentamente questo manuale. La QUIKO declina ogni responsabilità in caso di non osservanza delle normative vigenti.



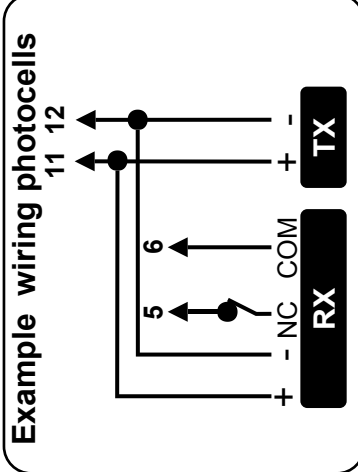
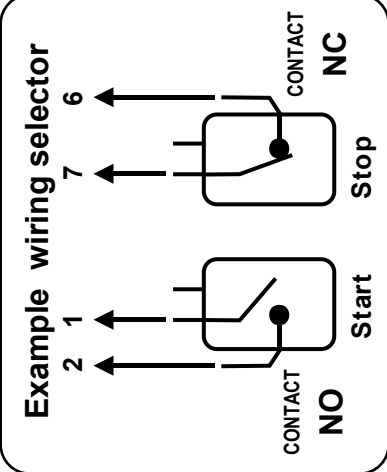
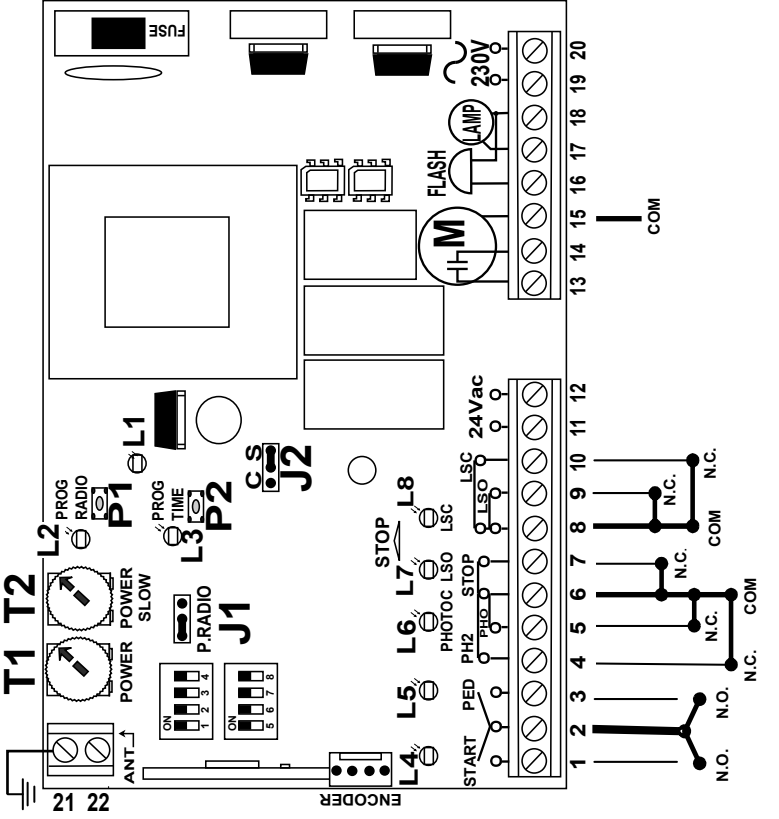
¡ATENCIÓN! Antes de efectuar la instalación, lea atentamente el presente manual. La Empresa QUIKO no asumirá responsabilidad alguna en caso de inobservancia de las normas vigentes en el país donde se lleva a cabo la instalación

WARNING!! Before installing, thoroughly read this manual that is an integral part of this Kit. QUIKO declines any responsibility in the event current standards in the country of installation are not complied with.

ATTENTION!! il vous plaît,attentivement ce manuel l'installation. QUIKO décline toute responsabilité de non-conformité à cesègements.

TECHNICAL SPECIFICATIONS

- Power** 230V AC +/- 10%
- Power engine** 550 W
- Output accessories** 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



JUMPER J1
Open radio memory with transmitter. (With J1 in ON you can storable other transmitter without open the control board.)
Insert Bridge: **ON** **OFF**

JUMPER J2 (CS)
Manage slowdown **Heavy C leaf** **S Light leaf**

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

BUTTON P2 or **PROG TIME** for storage the stroke

TABLED 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 FOTOCELLS 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

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		Input ANTENNA (22 signal)

ALL DIP-SWITCH:

DIP 1	COUNTERWEIGHT DOORS/SLIDING GATE ON- Counterweight doors function OFF- Sliding gate function
DIP 2	AUTOMATIC CLOSING ON- Automatic closing activated OFF- Automatic closing not activated
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 SAFETY 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 activated OFF- Encoder not activated

FLASHING OPERATION WITH DIP6 ON
IN OPENING: Flash slow
IN CLOSING: Flash fast
IN PAUSE: Steady light
PHOTOCELL ENGAGED: Turn off

ENCODER OPERATION Activated 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.

FEATURES

The control unit is QK-CE220BASC 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-CE220BASC 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 is easier.

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 control unit is able to handle radio fixed code and rolling code. The two systems can not be managed simultaneously, but with the first remote control will be programmed encoding system.

The QK-CE220BASC 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 7ON)

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 7OFF)

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

The contact if open will cause the immediate arrest of the automation in any situation.

STOP TERMINAL (18-19)



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