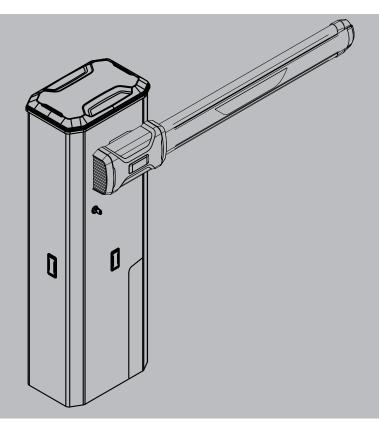
GIOTTO BT B ULTRA 36









INSTALLATION AND USER'S MANUAL

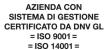
ELECTROMECHANICAL CONTROL DEVICE FOR VEHICULAR BARRIERS

Caution! Read "Warnings" inside carefully!













GENERAL OUTLINE

Compact electromechanical barrier suitable for limiting private areas, parkings, access areas for vehicles only. Available for passageways from 2 to 6 metres. Adjustable electronic limit switches, they guarante e correct boom stopping position.

The emergency release device for manual manoeuvre is controlled by a personalised key lock.

The barrier is supplied without a spring. The spring must be purchased separately and can be installed with the opening on the right or left according to need.

The fixing template (on request) makes barrier installation easier. Appropriate fittings make it easy to install accessories.

The **MERAK** control panel is supplied by the manufacturer with standard setting. Any change must be set by means of the incorporated display or by means of the universal programmer.

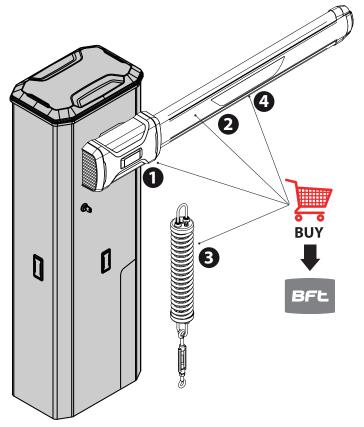
Fully supports EELINK and U-LINK protocols.

Its main features are:

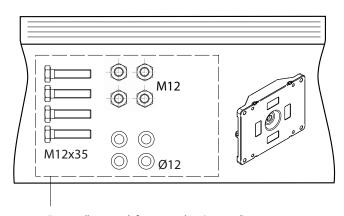
- Control of 1 low-voltage motor
- Obstacle detection
- Separate inputs for safety devices
- Configurable command inputs
- Built-in radio receiver rolling code with transmitter cloning.

The board has a terminal strip of the removable kind to make maintenance or replacement easier.

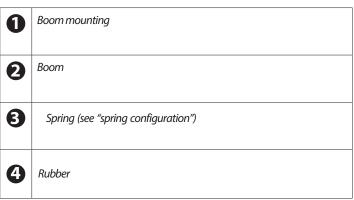
KIT COMPOSITION



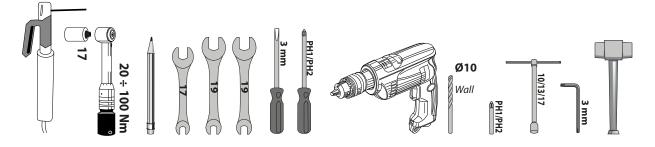


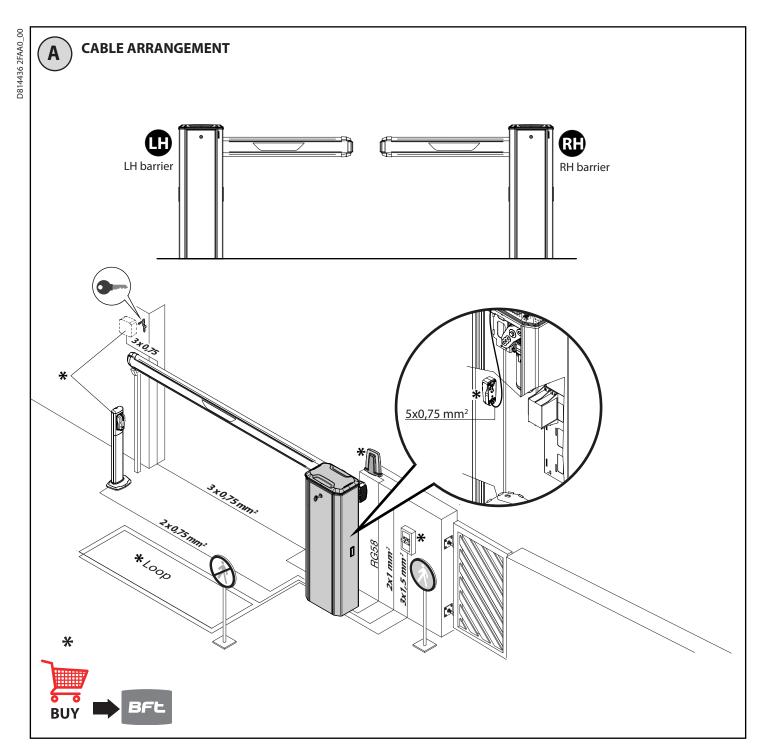


For installation with fixing template (optional)



EQUIPMENT





ELECTRICAL INSTALLATION SET-UP

CAUTION: before opening the door, disconnect the power supply and check that the spring is discharged (vertical boom).

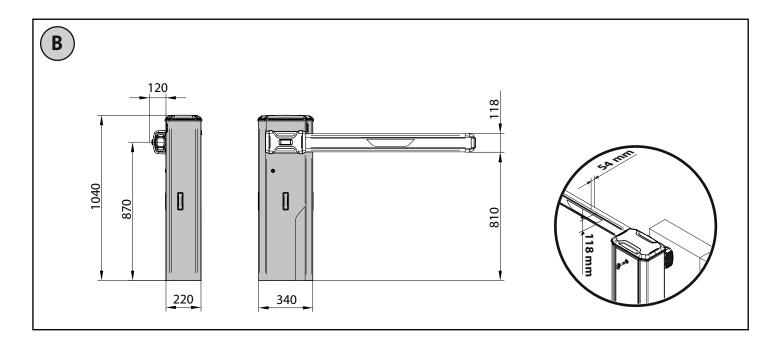
Set up the electrical installation (fig. A) with reference to the current regulations for electrical installations. Keep the mains power supply connections definitely separate from the service connections (photocells, electric edges, control devices etc.).

Fig. A shows the number of connections and section for a 100m length of power supply cables; for greater lengths, calculate the section for the true automation load. When the auxiliary connections exceed 50 metre lengths or go through critical disturbance areas, it is recommended to decouple the control and safety devices by means of suitable relays.

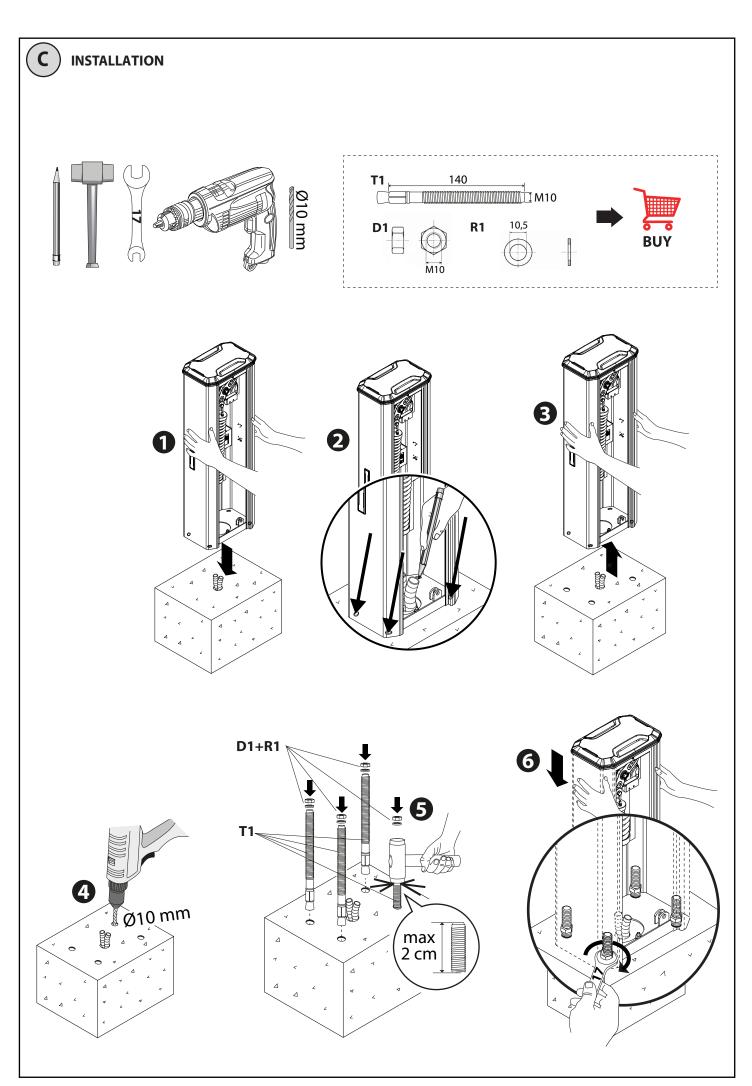
WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles. Wires carrying different voltages must be kept physically separate from each other, or they must be suitably insulated with at least 1mm of additional insulation.

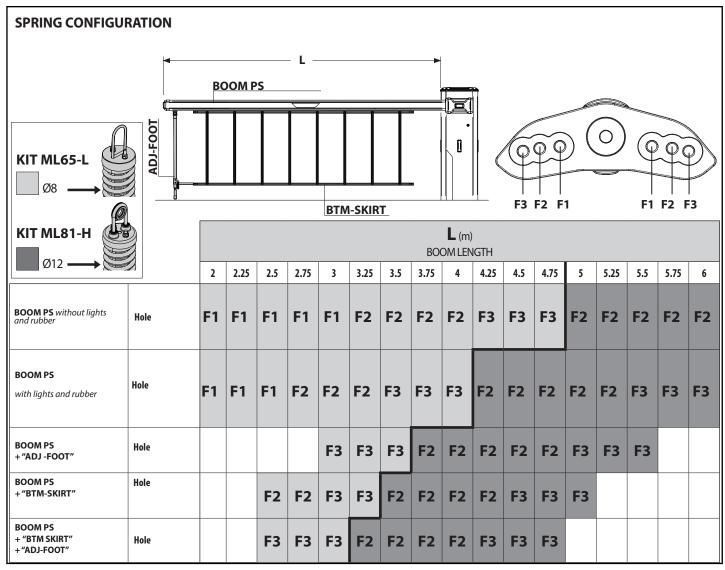
Wires must be secured with additional fastening near the terminals, using devices such as cable clamps. All connecting cables must be kept far enough away from dissipaters.

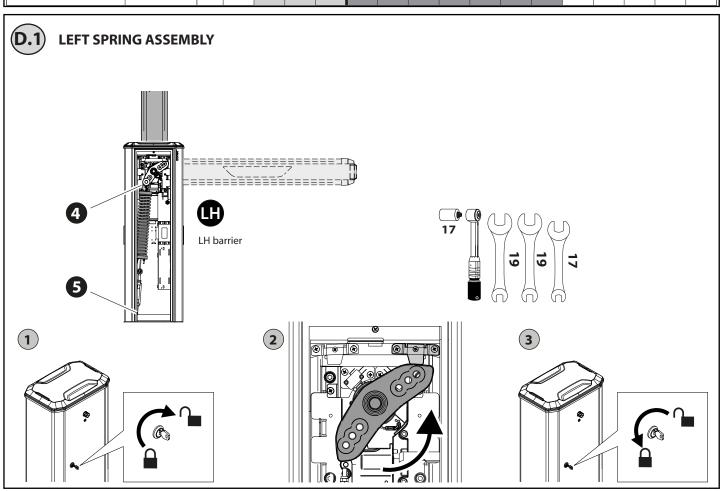
DIMENSIONS

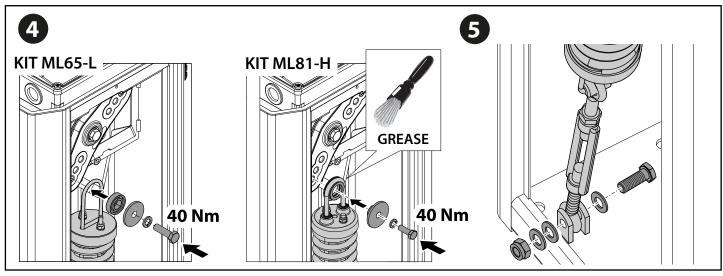


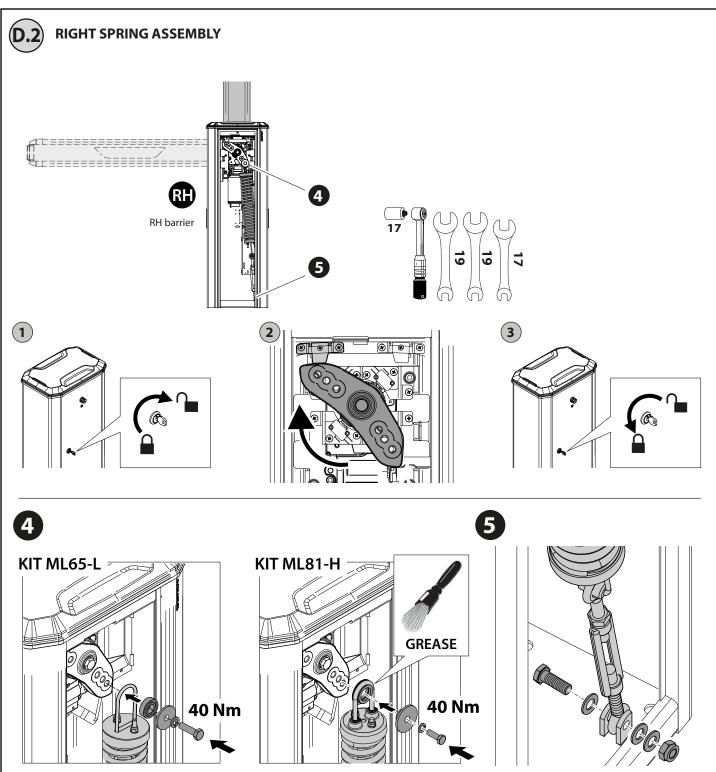
D814436 2FAA0_00



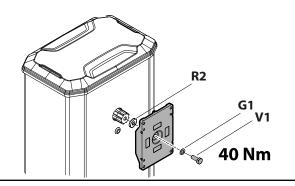






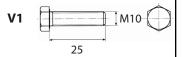


OMEGA PS GIOTTO ULTRA 36

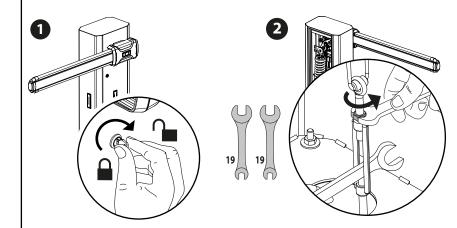


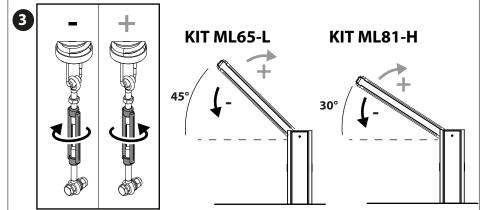


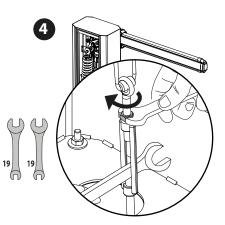




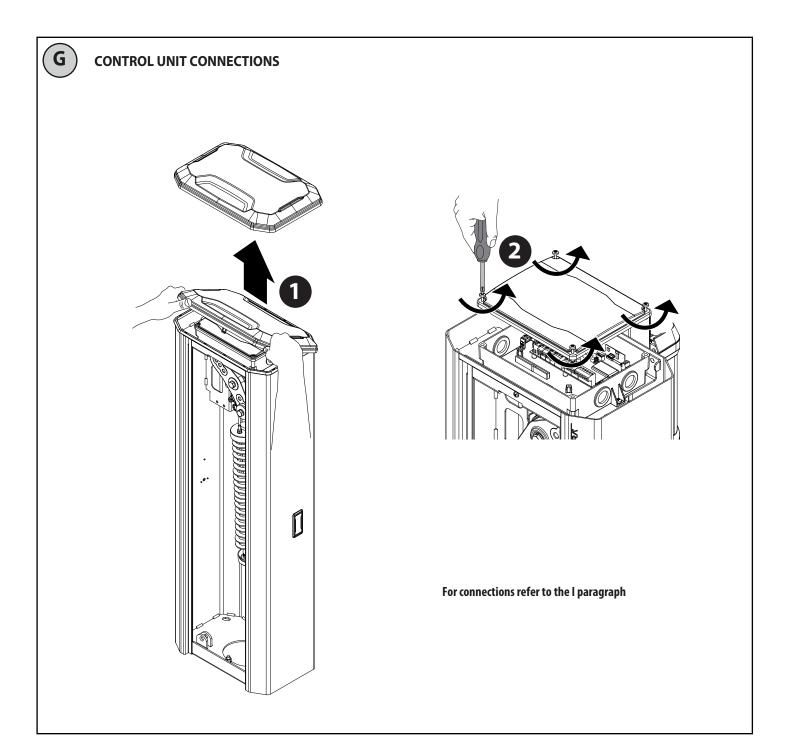
F BOOM BALANCING







Recommended speeds for various boom lengths					
	ı	I			
Boom length (m)	2	3	4	5	6
Open/close time (s)	2,2	2,2	2,8	3,4	4
Parameter MOTOR TYPE	20-45	20-45	20-45	45-60	45-60
Max. SPEED parameter	75	75	50	47	45
Parameter DECELERATION DISTANCE	55	55	55	55	55
Parameter ACCELERATION	4	3	2	1	1



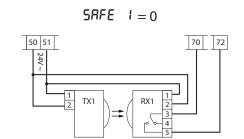


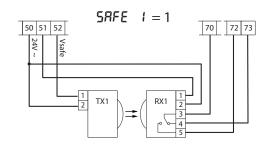


Photocells not checked (Check every 6 months)



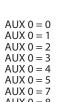
Photocell checked





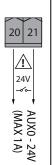
3



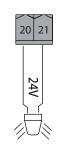


AUX 0 = 8

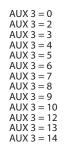
AUX 0 = 9AUX 0 = 10 AUX 0 = 12 AUX 0 = 13AUX 0 = 14



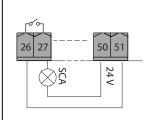
RUH □ = 6



AUH 3 = 1



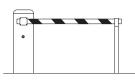


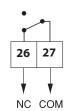


Connection To Car-park Management System

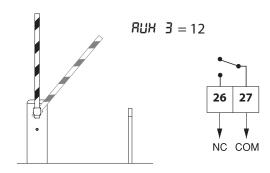


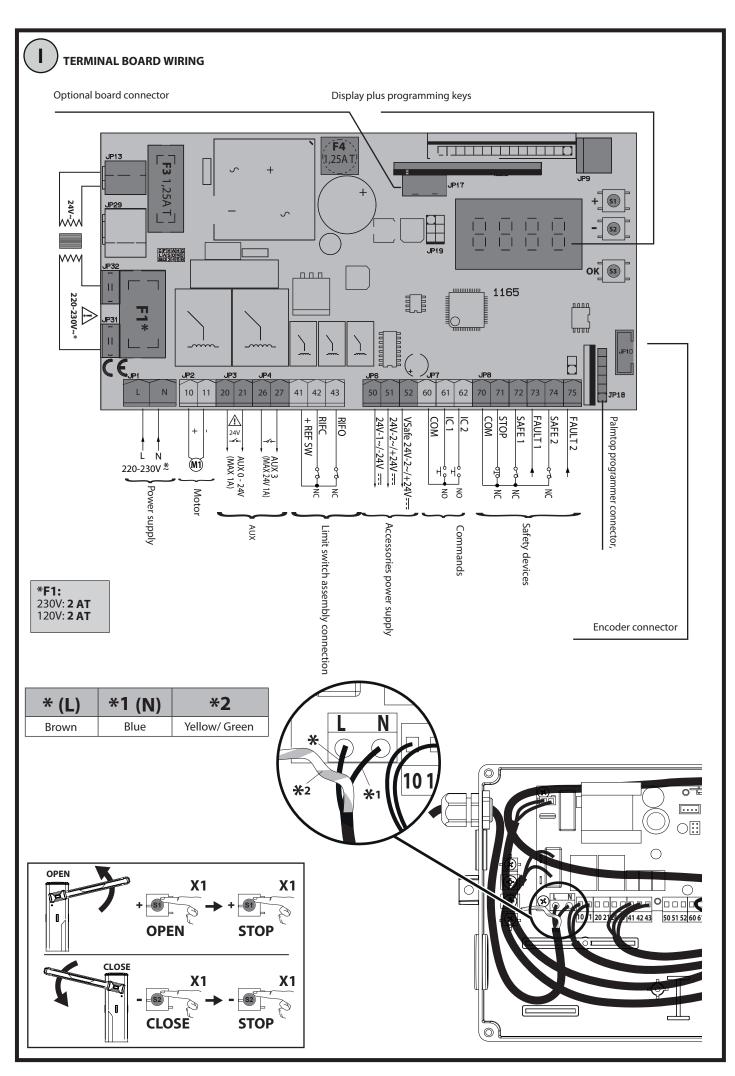


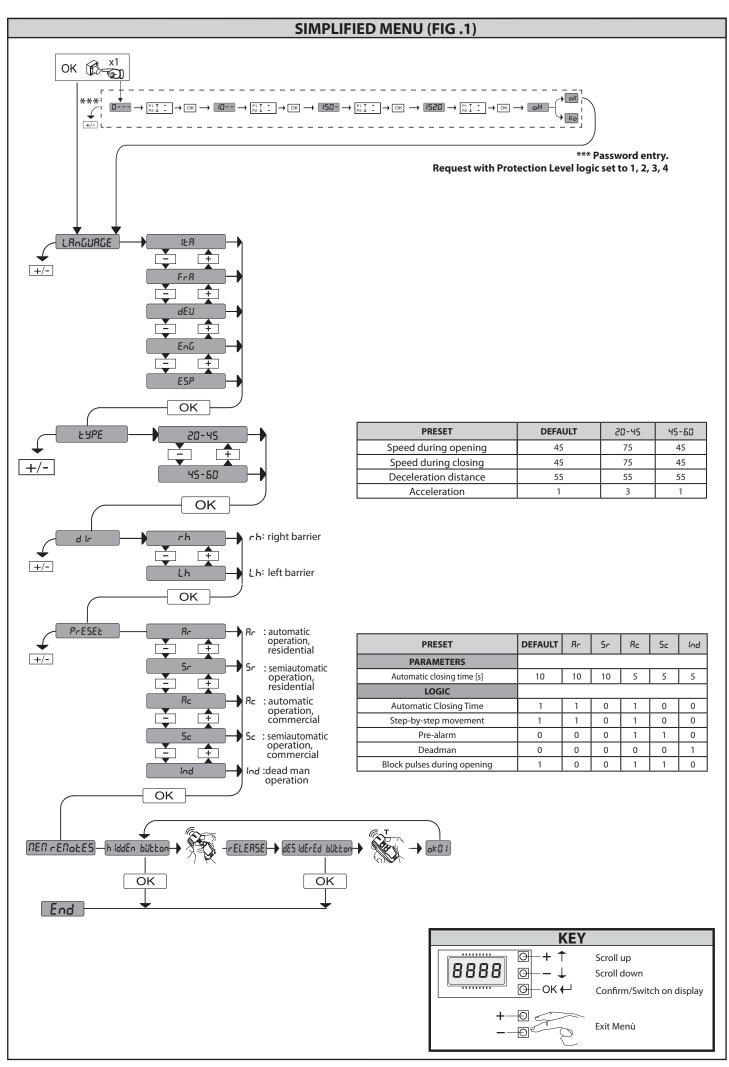


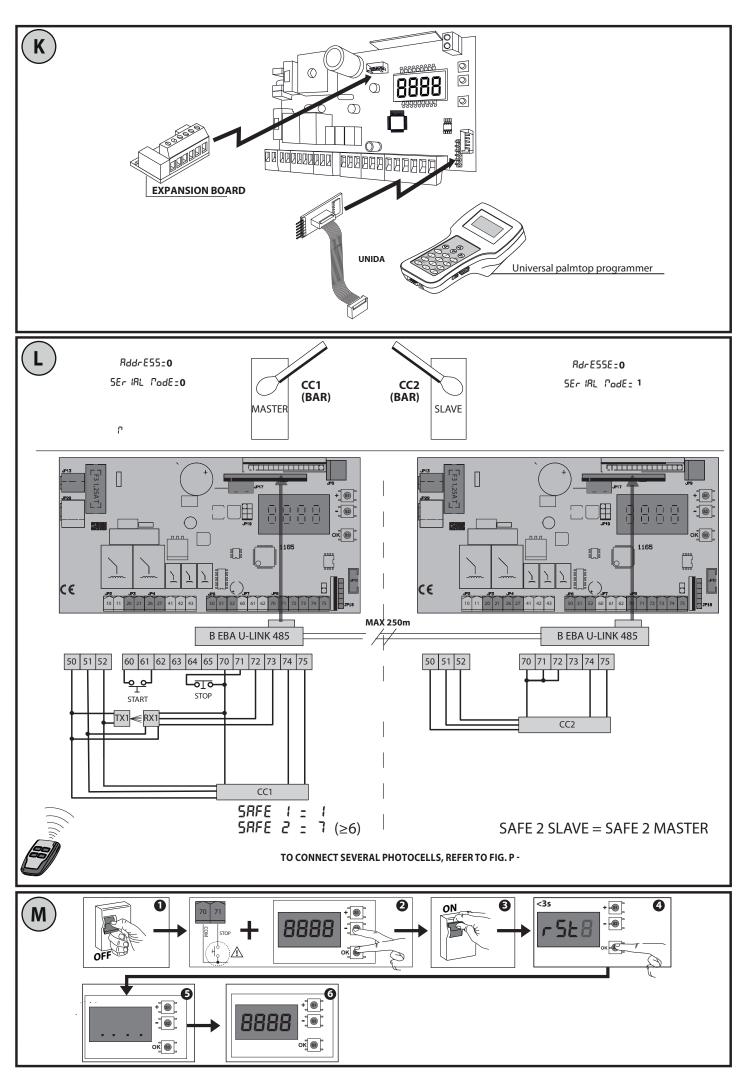


AUH 3 = 12









Maximum number of tested devices: 6 (but no more than 4 per type)

1) TECHNICAL SPECIFICATIONS

BA	RRIER		
Power supply	110-120V~ 50/60Hz 220-230V~ 50/60 Hz(*)		
Motor voltage	24V 		
Power absorbed	300W		
Internal lubrication	permanent gre	ase	
Max torque	280-290 Nm		
Impact reaction	Electronic torqu	ie limiter	
Minimum opening time	2,2s		
Boom length	from 2 to 6 metr	res	
Manual mechanical release	customised key	1	
Type of boom	BOOM ES, BOOM	Л PS	
Limit devices	electromechanic	cal	
Marriagua usa sa susla	3-metre bar	5000 operations / 24h	
Maximum usage cycle	6-metre bar	2000 operations / 24h	
Buffer batteries (optional extras)	Two 12V 1.2Ah I	batteries	
Environmental conditions	from -20°C to +	.55℃	
Degree of protection	IP 54		
Noise level	<70dBA		
Weight (without boom)	41 Kg		
Dimensions	see fig. B		
CONT	ROL UNIT		
Mains/low voltage insulation	> 2MOhm 500\	/ 	
Dielectric strength	mains/low voltage 3750V~ for 1 minute		
Thermal overload protection	Software		
Supply to accessories	24V~ (demand max. 0,5A) 24V~ safe		
AUX 0	NO 24V ~powered contact (max.1A)		
AUX 3	N.O. Contact (24	V~ /1A max)	
Barrie-open warning light	24V~3W max		
Blinker	24V~25W max		
Fuses	see Fig. I		
N° of combinations	4 billion		
Built-in Rolling-Code radio-receiver	frequency 433.92MHz		
Max. n° of remotes that can be memorized	63		
Setting of parameters and options	Universal han LCD display	dheld programmer/	

(*)= special power supply voltages on request.

2) ELECTRICAL INSTALLATION SET-UP

WARNING: before opening the boom, the spring must be unloaded (vertical boom). Set up the electrical installation (fig. A) with reference to the current regulations for electrical installations. Keep the mains power supply con-nections definitely separate from the service connections (photocells, electric edges, control devices etc.).

Fig. A shows the number of connections and section for a 100m length

of power supply cables; for greater lengths, calculate the section for the true automation load. When the auxiliary connections exceed 50 metre lengths or go through critical disturbance areas, it is recommended to decouple the control and safety devices by means of suitable relays.

WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles. Wires carrying different voltages must be kept physically separate from each other, or they must be suitably insulated with at least 1mm of additional insulation.

Wires must be secured with additional fastening near the terminals, using devices such as cable clamps. All connecting cables must be kept far enough away from dissipaters.

3) CONNECTION (Fig. I)
Once suitable electric cables have been run through the raceways and the automated device's various components have been fastened at the predetermined points, the next step is to connect them as directed and illustrated in the diagrams contained in the relevant instruction manuals. Connect the live, neutral and earth wire (compulsory). The mains cable must be clamped in the relevant cable gland, and the accessories' wires in the cable gland, while the earth wire with the yellow/green-coloured sheath must be connected in the relevant terminal.

WARNING: The electrical connections must be carried out workmanlike by qualified experienced personnel, in conformity with all the current standards and with the use of appropriate materials.

Lay out the electrical installation with reference to the current electrical standards.

Keep the mains supply connections clearly separated from the service connections.

In the initial section of the electrical installation, fit a circuit breaker with a contact opening distance equal to or greater than 3,5 mm, provided with magnetothermal protection and a differential switch having adequate capacity for the appliance consumption. For the wiring, only use cables conforming to the harmonised or national standards, having a cross section corresponding to the initial protection, the appliance consumption and the installation conditions, for example a 3x1.5 sq mm (H 05 VV-F) cable.

	Terminal	Definition	Description				
	L	LINE	Single-phase power supply 220-230V ~50/60 Hz*				
Ide	N	NEUTRAL	5g.c pasc pone. supp.y ==0 =50.00				
Power supply	JP31 JP32	TRANSF PRIM	Transformer primary winding connection, 220-230V ~.				
Pov	JP13	TRANSF SEC	Board power supply: 24V~Transformer secondary winding				
Motor	10	MOT +	- Connection motor				
Mo	11	MOT -	- Connection motor				
	20	AUX 0 - 24V POWERED CONTACT	AUX 0 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA BOOM OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/				
Aux	21	(N.O.) (MAX. 1A)	BOOM OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE/ BARRIER STATUS OUTPUT/LIGHTS ON BAR. Refer to "AUX output configuration" table.				
At	26	AUX 3 - FREE CONTACT (N.O.)	AUX 3 configurable output - Default setting 2ND RADIO CHANNEL Output. 2ND RADIO CHANNEL/ SCA BOOM OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/				
	27	(Max. 24V 1A)	BOOM OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE/ BARRIER STATUS OUTPUT/LIGHTS ON BAR. Refer to "AUX output configuration" table.				
t les	41	+ REF RIF	Common references				
Limit	42	RIFC	Reference closing RIFC (N.C.)				
l ws	43	RIFO	Reference opening RIFO (N.C.)				
ies .	50	24V-1~/-24V 	Accessory power supply output. The accessory power supply is in A.C. (~) when the board is powered via the mains voltage,				
cessorie power supply	51	24V-2~/+24V 	and D.C. () during battery operation.				
Accessories power supply	52	VSAFE 24V-2~/+24V 	Power supply output for checked safety devices (photocell transmitter and safety edge transmitter). Output only active during the operation cycle. The supply to the checked device is via terminals 50-52.				
	60	Common	IC 1 and IC 2 inputs common				
Commands	61	IC 1	Configurable command input 1 (N.O.) - Default OPEN. START E / START I / OPEN / CLOSE / TIMER / OPEN Refer to the "Command input configuration" table.				
Con	62	IC 2	Configurable command input 2 (N.O.) - Default CLOSE. START E / START I / OPEN / CLOSE / TIMER / OPEN Refer to the "Command input configuration" table.				

	Terminal	Definition	Description		
	70	Common	STOP, SAFE 1 and SAFE 2 inputs common		
s	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.		
devices	72	SAFE 1	Configurable safety input 1 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.		
Safety	73	FAULT 1	Test input for safety devices connected to SAFE 1.		
Sa	74	SAFE 2	Configurable safety input 2 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.		
	75	FAULT 2	Test input for safety devices connected to SAFE 2.		
Antenna	Y	ANTENNA	Antenna input. Use an antenna tuned to 433MHz. Use RG58 coax cable to connect the Antenna and Receiver. Metal bodies clos		
Ant	#	SHIELD	to the antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a r suitable position.		

AUX output configuration

Aux logic= 0 - 2ND RADIO CHANNEL output. Contact stays closed for 1s when 2nd radio channel is activated.

Aux logic= 1 - SCA BOOM OPEN LIGHToutput. Contact stays closed during opening and with leaf open, intermittent during closing, open with leaf closed.

Aux logic= 2 - COURTESY LIGHT command output. Contact stays on for 90 seconds after the last operation.

Aux logic= 3 - ZONE LIGHT command output. Contact stays closed for the full duration of operation.

Aux logic= 4 - STAIR LIGHT output. Contact stays closed for 1 second at start of operation.

Aux Logic= 5 - OPEN BOOM ALARM output.

The contact remains closed if the boom stays open for longer than the "RLR-II L IIIE" parameter. O for Obstacle detected

Aux logic= 6 - FLASHING LIGHT output. Contact stays closed while booms are operating.

Aux logic= 7 - SOLENOID LATCH output. Contact stays closed for 2 seconds each time boom is opened.

Aux logic= 8 - MAGNETIC LOCK output. Contact stays closed while boom is closed.

Aux logic= 9 - MAINTENANCE output. Contact stays closed once the value set for the Maintenance parameter is reached, to report that maintenance is required.

Aux logic= 10 - FLASHING LIGHT AND MAINTENANCE output.
Contact stays closed while booms are operating. If the value set for the Maintenance parameter is reached, once the boom has finished moving and the leaf is closed, the contact closes for 10 sec. and opens for 5 sec. 4 times to report that maintenance is required.

Aux Logic= 11- Not available

Aux Logic= 12 - barrier status output: the contact stays closed when the barrier is totally closed.

Aux logic= 13 - Lights on bar - open green, moving red flashing, closed red steady.

Aux logic= 14 - Lights on bar - open green, moving red flashing, closed red flashing.

Command input configuration

IC logic= 0 - Input configured as Start E. Operation according to 5EEP-by-5EEP 700. logic. External start for traffic light control.

IC logic= 1 - Input configured as Start I. Operation according to SŁEP - b ソーラトとア いっしい IC Internal start for traffic light control.

IC logic= 2 - Input configured as Open.
The command causes the booms to open. If the input stays closed, the booms stay open until the contact is opened. When the contact is open, the automated device closes following

IC logic= 3 - Input configured as Closed. The command causes the booms to close.

IC logic= 4 - Not available

IC logic= 5 - Input configured as Timer. Operation same as open except closing is guaranteed even after a mains power outage.

Safety input configuration

SAFE logic= 0 - Input configured as Phot (photocell) non tested . (fig.N, ref.1).
Enables connection of devices not equipped with supplementary test contacts. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared. If not used, leave jumper inserted.

SAFE logic= 1 - Input configured as Phot test (tested photocell). (fig.N, ref.2).
Switches photocell testing on at start of operation. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared.

SAFE logic= 2 - Input configured as Phot op (photocell active during opening only) non tested . (fig.N, ref.1).
Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken. If not used, leave jumper inserted.

SAFE logic= 3 - Input configured as Phot op test (tested photocell active during opening only (fig.N, ref.2).
Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.

SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested . (fig.N, ref.1).
Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately. If not used, leave jumper inserted.

SAFE logic= 5 - Input configured as Phot cl test (tested photocell active during closing only (fig.N ref.2).
Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.

SAFE logic= 6 - Input configured as Bar (safety edge) non tested . (fig.N, ref.3). Enables connection of devices not equipped with supplementary test contacts. The command reverses movement for 2 sec.. If not used, leave jumper inserted.

SAFE logic= 7 - Input configured as Bar (tested safety edge (fig.N, ref.4). Switches safety edge testing on at start of operation. The command reverses movement for 2 sec.

SAFE logic= 8 - Input configured as Bar 8k2 (fig.N, ref.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.

^{* (}If "D" type devices are installed (as defined by EN12453), connect in unverified mode, foresee mandatory maintenance at least every six months.

4) LIMIT SWITCH SETTING

WARNING: before opening the boom, the spring must be unloaded (vertical

boom). The barrier is provided with programmable electronic limit switches and mechanical stop devices. There must be a rotation margin (about 1°) on closing and opening between the electrical limit switches and mechanical stop devices (Fig. J1). The adjustment is carried out as follows:

The end-of-stroke opening and closing positions must be set by modifying the parameters of the control panel for Opening value Calibration and Closing value Calibration: if the value is increased, the end-of-stroke positions move towards the opening direction. The extent of the movement depends on the effective boom length: in the case of a 6-m boom, a unit change (1.0) entails a movement of about 4,4 cm which, proportionally, becomes about 5,8 cm for an 8-m boom.

The effective closing value also depends, in part, on the manoeuvring speed. It is therefore convenient to proceed to end-of-stroke calibration only after having set the other opening parameters.

To evaluate correctly the values set, you are advised to carry out a few complete consecutive manoeuvres.

4.1) POSITIONS OF THE LIMIT SWITCH SCREWS (Fig. J2)

5) SAFETY DEVICES

Note: only use receiving safety devices with free changeover contact.

- 5.1) TESTED DEVICES Fig. N
- 5.2) CONNECTION OF 1 PAIR OF NON-CHECKED PHOTOCELLS FIG. H1
- 5.3) CONNECTION OF 1 PAIR OF CHECKED PHOTOCELLS FIG. H2
- 6) ACCESS TO THE SIMPLIFIED MENU: FIG.1
- 6.1) CALLING UP MENUS: FIG. 2
- 6.2) PARAMETERS MENU (PRc RG) (PARAMETERS TABLE "A")
- 6.3) LOGIC MENU (Lou le) (LOGIC TABLE "B")

6.4) RADIO MENU (rAd to) (RADIO TABLE "C")

- IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).

In the event of manual programming, the first transmitter assigns the RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters.

The Clonix built-in on-board receiver also has a number of important advanced features:

Cloning of master transmitter (rolling code or fixed code).

- Cloning to replace transmitters already entered in receiver. Transmitter database management.

Receiver community management.
 To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.

6.5) DEFAULT MENU (dEFRULE) Restores the controller's DEFAULT factory settings. 6.6) LANGUAGE MENU (LRกนิปหนัย)

Used to set the programmer's language on the display.

6.7) STATISTICS MENU (5ERL) Used to view the version of the board, the total number of operations (in hundreds), the number of transmitters memorized and the last 30 errors (the first 2 digits indicate the position, the last 2 give the error code). Error 01 is the

6.8) PASSWORD MENU (PR55bord)

Used to set a password for the board's wireless programming via the U-link network. With "PROTECTION LEVEL" logic set to 1,2,3,4, the password is required to access the programming menus. After 10 consecutive failed attempts to log in, you will need to wait 3 minutes before trying again. During this time, whenever an atter is made to log in, the display will read "BLOC". The default password is 1234.

7) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER VERSION> V1.40 (Fig. K) Refer to specific manual.

WARNING! Incorrect settings can result in damage to property and injury to people and animals

8) U-LINK OPTIONAL MODULES Refer to the U-link instructions for the modules.

9) Opposite Barriers (Fig. L)

Refer to the U-link instructions for the modules.

NOTE: On the board set as the Slave, the Safety Edge input (Safety Edge/ Test Safety Edge/ 8k2 Safety Edge) should only be set to SAFE2.

10) RESTORING FACTORY SETTINGS (Fig.M)

WARNING: this operation will restore the control unit's factory settings and all transmitters stored in its memory will be deleted.

WARNING! Incorrect settings can result in damage to property and injury to people and animals.

- Cut off power to the board (Fig.M ref.1)
- Open the Stop input and press the and OK keys together (Fig.M ref.2)
- Switch on the board's power (Fig.M ref.3)
- $The \ display \ will \ read \ RST; confirm \ within \ 3 \ sec. \ by \ pressing \ the \ OK \ key \ (Fig.O \ ref.4)$
- Wait for the procedure to finish (Fig.M ref.5)
- Procedure finished (Fig.M ref.6)

11) PARKING MANAGEMENT SYSTEM CONNECTION

The board has an output for the control of the barrier status configured this way (Fig. H5).

The logic must be set to AUX3/AUX0=12.

closed contact between terminals 26-27 with the barrier lowered open contact between terminals 26-27 with the barrier not lowered.

12) EMERGENCY RELEASE (Fig. E)

WARNING! When an barrier without bar needs to be released, ensure that the balancing spring is not compressed (bar in the opening position).

12.1) LOCAL COMMANDS Fig.I

While the display is off, pressing the + key commands the boom to Open and pressing the - key commands it to Close. Pressing either key again while the automated devicé is moving commands the boom to STOP.

TABLE "A" - PARAMETERS MENU - (PRc 80)

Parameter	min.	max.	Default	Personal	Definition	Description
ŁcA	0	180	10		Automatic closing time [s]	Waiting time before automatic closing.
trFLGht.clr.t	1	180	40		Time-to-clear traffic light zone [s]	Time-to-clear for the zone run through by traffic controlled by the traffic light.
ALA-N E INE	0	240	30		Alarm time [s]	If an obstacle is sensed or the photocells are engaged for longer than the set time, the AUX contact configured as OPEN BOOM ALARM output closes. The contact is then opened by the Stop command or by the closing limit switch.
oPEn.cRL 1b. (Special par. 1)***	0	100	60		Opening value calibration	Opening value calibration [%] Set the reference value from 0,0 to 100,0 for the required opening position (see Paragraph Limit Switch Setting).
cLoS.cRL 1b. (Special par. 6)***	0	100	45		Closing value calibration	Closing value calibration [%] Set the reference value from 0,0 to 100,0 for the required closing position (see Paragraph Limit Switch Setting).
RccEL. (Special par. 6)***	1	5	1		Acceleration	Acceleration [%] Set the acceleration to be applied at the beginning of each movement (****)
d ISŁ.dEcEL	45	99	55		Deceleration distance [%]	Deceleration distance (switch from running speed to slow-down speed) for motor(s) both during opening and during closing, given as a percentage of total travel (****).
oPForcE	40	99	75		Leaf force during opening [%]	Force exerted by the barrier while opening. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).
cLSForcE	40	99	75		Leaf force during closing [%]	Force exerted by the barrier while closing. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).

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Parameter	min.	max.	Default	Personal	Definition	Description	
oP. SPEEd	20	80	45		Speed during opening	Running speed during opening [%] Sets the running speed that the barrier must reach during opening, a percentage of the maximum speed the barrier can reach (****).	
cL SPEEd	20	80	45		Speed during closing	Running speed during closing [%] Sets the running speed that the barrier must reach during closing, as a percentage of the maximum speed the barrier can reach (****).	
NR IntenAnce	0	250	0		Programming number of operations for maintenance threshold [in hundreds]	Allows you to set a number of operations after which the need for maintenance will be reported on the AUX output configured as Maintenance or Flashing Light and Maintenance .	

(*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method. (**) Impact forces can be reduced by using deformable edges. (***)Reference for universal handheld programmer. (****) Modifying the "motor type" logic involves automatic modification of this channel.

TABLE "B" - LOGIC - (Loū (c)

Logic	Definition	Default	Cross out setting used	Optional extras					
Notor EYPE	Spring type or bar	1	0	Short bars 20-45, generally standard sp	oring				
11020, 23, 2	length		1	Long bars 45-60, generally XL spring					
ŁcR	Automatic Closing Time	1	0	Logic not enabled Switches automatic closing on					
	Time		0	ļ					
FRSE cLS.	Fast closing	0	1	Logic not enabled Closes 1 second after the photocells ar	e cleared hefore	waiting for t	the set TCA to ela	anse	
			•	closes i second diter the photocens di	e cicured before				
				Inputs configured as Start E, Start I, Ped		step-by	/-step mov.		
			0	operate with 4-step logic.		2 STEP	3 STEP	4 STEP	
	Step-by-step movement				CLOSED]		OPENS	
SEEP-BY-SEEP NovEnnt		1	1	Inputs configured as Start E, Start I, Ped operate with 3-step logic. Pulse during closing reverses movement.	DURING CLOSING	OPENS	OPENS	STOPS	
1100211112				during closing reverses movement.	OPEN		CLOSES	CLOSES	
			2	Inputs configured as Start E, Start I, Ped operate with 2-step logic. Movement	DURING OPENING	CLOSES	STOP + TCA	STOP + TCA	
				reverses with each pulse.	AFTER STOP	OPENS	OPENS	OPENS	
			0	The flashing light comes on at the sam	e time as the mo	tor(s) start			
PrE-RLArn	Pre-alarm	0	1	The flashing light comes on approx. 3 seconds before the motor(s) start.					
			0	0 Pulse operation.					
hoid-to-riin	Deadman	0	1	WARNING: safety devices are	SE UP. as the OPEN UP or CLOSE UP keys are held down.				
			2	mode is enabled which will stay active Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP.	device tests (photocell or safety edge, Er0x) 3 times in a row, Deadman Il stay active for 1 minute after the OPEN UP - CLOSE UP keys are released. OPEN UP.				
55	Block pulses during		0	Pulse from inputs configured as Start E, Start I has effect during opening.					
16L oPEn	opening	1	1	Pulse from inputs configured as Start E, Start I has no effect during opening.					
	Block pulses during		0	Pulse from inputs configured as Start E, Start I has effect during TCA pause.					
* IBL EcR	TCA	0	1	Pulse from inputs configured as Start E, Start I has no effect during TCA pause.					
	District 1.1		0	Pulse from inputs configured as Start E, Start I has effect during closing.					
IbL cLoSE	Block pulses during closing	0	1	Pulse from inputs configured as Start E					
oPEn in othEr	Open in other		0	Standard operating mode (left barrier)		rect during t	ciosing.		
d IrEct.	direction	0	1	Opens in other direction to standard operating mode (right barrier).					
			0	Input configured as Phot (photocell).	, ,		,		
	Configuration of		1	Input configured as Phot test (tested photocell).					
SRFE I	safety input SAFE 1. 72	4	2	Input configured as Phot op (photocel	l active during o	pening only)			
			3	Input configured as Phot op test (teste	d photocell activ	e during op	ening only).		
			4	Input configured as Phot cl (photocell					
	Configuration of		5	Input configured as Phot cl test (tested photocell active during closing only).					
SRFE 2	safety input SAFE 2.	6	6	Input configured as Bar, safety edge.					
	74		7	Input configured as Bar, tested safety edge.					
			8	Input configured as Bar 8k2.					

Logic	Definition	Default	Cross out setting used	Optional extras							
			0	Input configured as Start E.							
	Configuration of command input IC 1.	2	1	Input configured as Start I.							
lc 1	61	2	2	Input configured as Open.							
			3	Input configured as Close.							
1c 2	Configuration of command input IC 2.	3	4	Input configured as Ped.							
	62		5	Input configured as Timer.							
			0	Output configured as 2nd Radio Channel.							
			1	Output configured as SCA (boom open light).							
	Configuration of		2	Output configured as Courtesy Light command.							
RUH D	AUX 0 output. 20-21	6	3	Output configured as Zone Light command.							
			4	Output configured as Stair Light							
			5	Output configured as Alarm							
			6	Output configured as Flashing light							
			7	Output configured as Latch							
			8	Output configured as Magnetic lock							
	Configuration of		9	Output configured as Maintenance							
RUH 3	AUX 3 output.	1	10	Output configured as Flashing Light and Maintenance.							
	26-37		11	Not available							
			12	output configured as barrier status Lights on bar - open green, moving red flashing, closed red steady.							
			14	Lights on bar - open green, moving red flashing, closed red flashing.							
5 0.5 1			0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.							
F IHEd codE	Fixed code	0	1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.							
			0	A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: - Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of clones. Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory. D - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory. E - The board's parameters can be edited via the U-link network							
		0	1	A - You are prompted to enter the password to access the programming menus The default password is 1234. No change in behaviour of functions B - C - D - E from 0 logic setting							
ProtEction LEuEL	Setting the protection level		0	0	0	0	0	0	0	0	2
			3	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. D - Wireless automatic addition of Replays is disabled. No change in behaviour of functions C - E from 0 logic setting							
			4	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. D - Wireless automatic addition of Replays is disabled. E - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.							
	Serial mode		0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.							
			1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.							
SEr IRL NodE	(Identifies how board is configured in a BFT	0	2	SLAVE opposite booms in local network : the control unit is the slave in an opposite booms network with no smart module (fig.L)							
	network connection).		3	MASTER opposite booms in local network: the control unit is the master in an opposite booms network with no smart module (fig.L)							
RddrE55	Address	0	[]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)							

Logic	Definition	Default	Cross out setting used	Optional extras						
			0	Input configured as Start E command.						
			1	Input configured as Start I command.						
			2	Input configured as Open command.						
			3	Input configured as Close command.						
			4	Input configured as Timer command						
			5	Input configured as Timer command.						
			6	Input configured as Timer Pedestrian command						
			7	Input configured as Phot (photocell) safety.						
	Configuration of		8	Input configured as Phot op safety (photocell active during opening only).						
EHP ! !	EXPI1 input on input-output expan-	1	9	Input configured as Phot cl safety (photocell active during closing only).						
בחר וו	sion board.	'	10	Input configured as Bar safety (safety edge).						
	1-2		10							
			11	Input configured as Phot test safety (tested photocell). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.						
			12	Input configured as Phot op test safety (tested photocell active during opening only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.						
			13	Input configured as Phot cl test safety (tested photocell active during closing only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.						
			14	Input configured as Bar safety (tested safety edge). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.						
			0	Input configured as Start E command.						
			1	Input configured as Start I command.						
			2	Input configured as Open command.						
	Configuration of		3	Input configured as Close command.						
5115 13	EXPI2 input		4	Input configured as Timer command						
EHP 12	on input-output expansion board.	0	5	Input configured as Timer command. Input configured as Timer Pedestrian command						
	1-3		7	Input configured as Phot (photocell) safety.						
	_		8	Input configured as Phot op safety (photocell active during opening only).						
									9	Input configured as Phot of safety (photocell active during opening only).
			10	Input configured as Bar safety (safety edge).						
			0	Output configured as 2 nd Radio Channel.						
	Configuration of		1	Output configured as SCA (boom open light).						
	EXPO2 output		2							
EXPo :	on input-output	11		Output configured as Courtesy Light command.						
	expansion board		3	Output configured as Zone Light command.						
	4-5		4	Output configured as Stair Light.						
			5	Output configured as Alarm.						
			6	Output configured as Flashing light.						
	cc		7	Output configured as Latch.						
	Configuration of EXPO2 output		8	Output configured as Magnetic lock.						
EHPo2	on input-output	11	9	Output configured as Maintenance.						
	expansion board		10	Output configured as Maintenance. Output configured as Flashing Light and Maintenance.						
	6-7		11	Output configured as Flashing Light and Maintenance. Output configured as Traffic Light control with TLB board.						
			12	output configured as barrier status						
ErRFF Ic L IGHE	다는 Traffic light		0	Pre-flashing switched off.						
PrEFLASh InG	pre-flashing	0	1	Red lights flash, for 3 seconds, at start of operation.						
ErRFF ic L IGht			0	Red lights off when boom closed.						
rEd LAMP RLURYS on	Steadily lit red light	0	1	Red lights on when boom closed.						

TABLE "C" - RADIO MENU (r 8d %)

Logic	Description
Logic	Description
Rdd StRrt	Add Start Key associates the desired key with the Start command
Rdd 2ch	Add 2ch Key associates the desired key with the 2nd radio channel command.
ErRSE 64	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.
cod rH	Read receiver code Displays receiver code required for cloning transmitters.
υK	ON = Enables remote programming of cards via a previously memorized W LINK transmitter. It remains enabled for 3 minutes from the time the W LINK transmitter is last pressed. OFF= W LINK programming disabled.

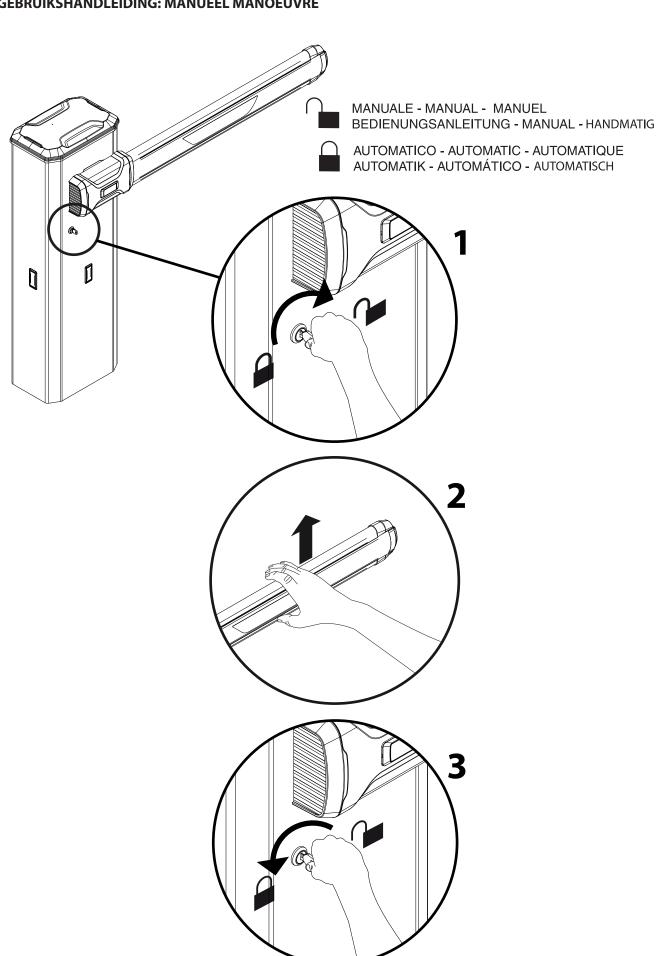


MANUALE D'USO: MANOVRA MANUALE - USER'S MANUAL: MANUAL OPERATION

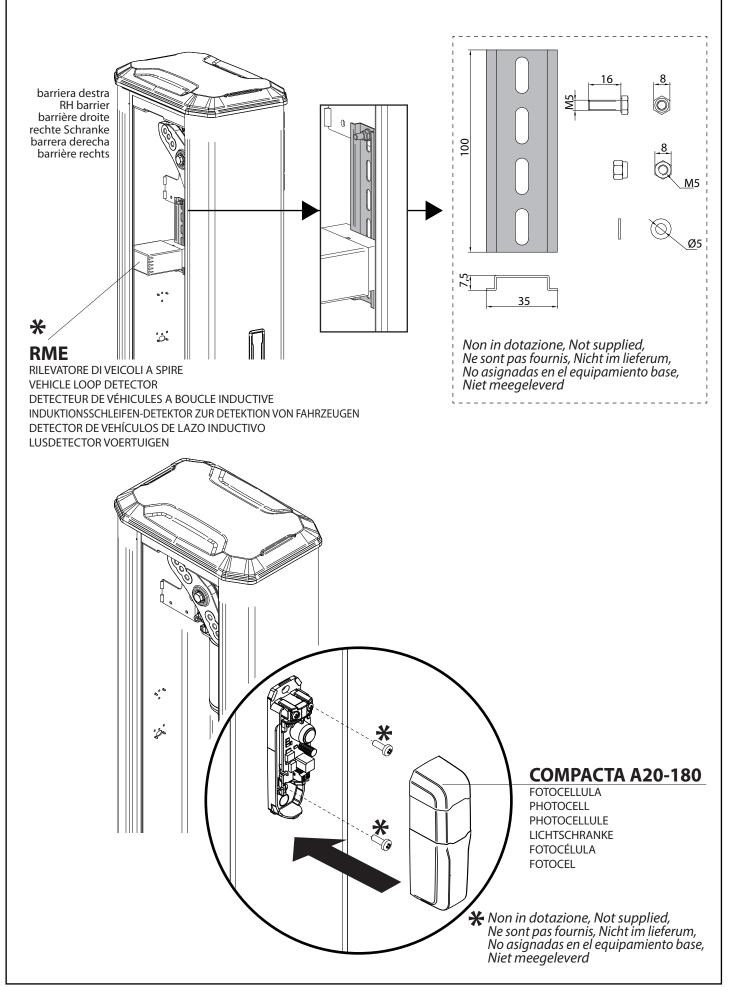
MANUEL D'UTILISATION: MANŒUVRE MANUELLE - BEDIENUNGSANLEITUNG: MANUELLES

MANÖVER MANUAL DE USO: ACCIONAMIENTO MANUAL

GEBRUIKSHANDLEIDING: MANUEEL MANOEUVRE



ACCESSORI - ACCESSORIES - ACCESSOIRES - ZUBEHÖR - ACCESORIOS - ACCESSOIRES



REGISTRO DI MANUTENZIONE / MAINTENANCE LOG

Dati impianto / Installation data

Installatore Installer	
Cliente Customer	
Matricola Serial number	
Data installazione Installation date	
Data attivazione Activation date	
Luogo <i>Location</i>	

Dati manutenzione / Maintenance date

Nr.	Data / Date	Descrizione intervento / Intervention description	Firma / Signature
			Tecnico / Technician
1			Cliente / Customer
			Tecnico / Technician
2			Cliente / Customer
			Tecnico / Technician
3			Cliente / Customer
			Tecnico / Technician
4			Cliente / Customer
			Tecnico / Technician
5			Cliente / Customer
			Tecnico / Technician
6			Cliente / Customer
			Tecnico / Technician
7			Cliente / Customer
			Tecnico / Technician
8			Cliente / Customer
			Tecnico / Technician
9			Cliente / Customer

Nr.	Data / Date	Descrizione intervento / Intervention description	Firma / Signature
			Tecnico / Technician
10			Cliente / Customer
			Tecnico / Technician
11			Cliente / Customer
			Tecnico / Technician
12			Cliente / Customer
			Tecnico / Technician
13			Cliente / Customer
			Tecnico / Technician
14			Cliente / Customer
			Tecnico / Technician
15			Cliente / Customer
			Tecnico / Technician
16			Cliente / Customer
47			Tecnico / Technician
17			Cliente / Customer
10			Tecnico / Technician
18			Cliente / Customer
10			Tecnico / Technician
19			Cliente / Customer
20			Tecnico / Technician
20			Cliente / Customer
24			Tecnico / Technician
21			Cliente / Customer
22			Tecnico / Technician
22			Cliente / Customer



www.bft-automation.com

BFT Spa

Via Lago di Vico, 44 **ITALY** 36015 Schio (VI) T +39 0445 69 65 11 F +39 0445 69 65 22

SPAIN BFT GROUP ITALIBERICA DE AUTOMATISMOS SL Camí de Can Bassa, 6, 08401 Granollers, Barcelona, Spagna

FRANCE
AUTOMATISMES BFT FRANCE SAS
50 rue jean zay
69800 Saint-Priest, Francia

GERMANY
BFT ANTRIEBSSYSTEME GMBH Faber-Castell-Straße 29, 90522 Oberasbach, Germania

UNITED KINGDOM
BFT AUTOMATION UK LTD
Unit C2-C3 The Embankment Business Park, Vale Road Heaton Mersey Stockport Cheshire SK4 3GLUnited Kingdom

BFT AUTOMATION (SOUTH) LTD Enterprise House Murdock Road, Dorcan, Swindon, England, SN3 5HY

PORTUGAL BFT PORTUGAL SA Urb. Pedrulha lote 9 - Apartado 8123, 3025-248 Coimbra Portugal

POLAND

BFT POLSKA SP ZOO Marecka 49, 05-220 Zielonka, Polonia

IRELAND
BFT AUTOMATION IRELAND
Unit D3 City Link Business Park, Old Naas
Road, Dublin

CROATIA

BFT ADRIA DOO

Obrovac 39, 51218, Dražice, Croazia

CZECH REPUBLIC BFT CZ SRO

Ustecka 533/9, 184 00 Praha 8, Czech

TURKEY BFT OTOMASYON KAPI Şerifali Mahallesi, no, 34775 Ümraniye/İstanbul, Turchia

U.S.A. BFT AMERICAS INC.

1200 S.W. 35th Avenue Suite B Boynton Beach FL 33426

AUSTRALIA
BFT AUTOMATION AUSTRALIA PTY
29 Bentley St, Wetherill Park NSW
2164, Australia
EMIRATES
BFT MIDDLEEAST FZCO

FZS2 AA01 -PO BOX 262200, Jebel Ali Free Zone South Zone 2 , Dubai - United Arab

NEW ZEALAND
BFT AUTOMATION NEW ZEALAND
224/A Bush Road, Rosedale, Auckland, New Zealand