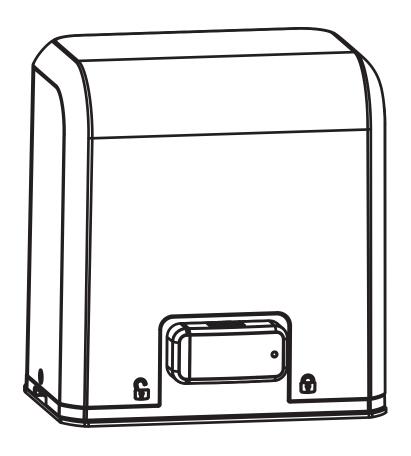


A5 SLIDING GATE OPENERS

WIFI 24V DC MOTOR USER MANUAL

Software Version: PS19033F



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1. GENERAL PRECAUTION:

WARNING:

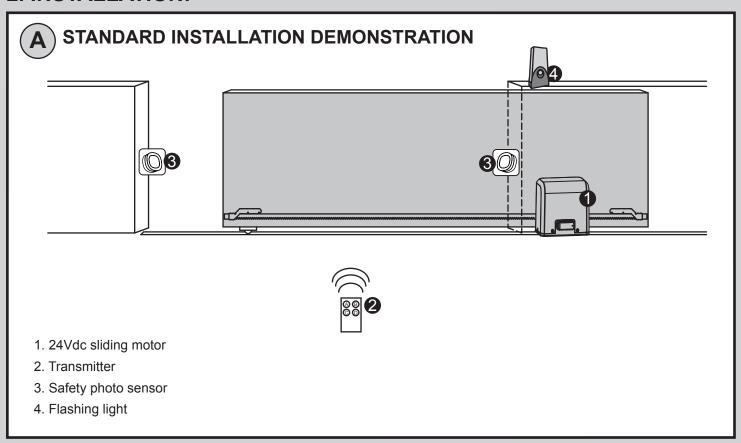
This user manual is only for qualified technicians who is specialized in installations and automations.

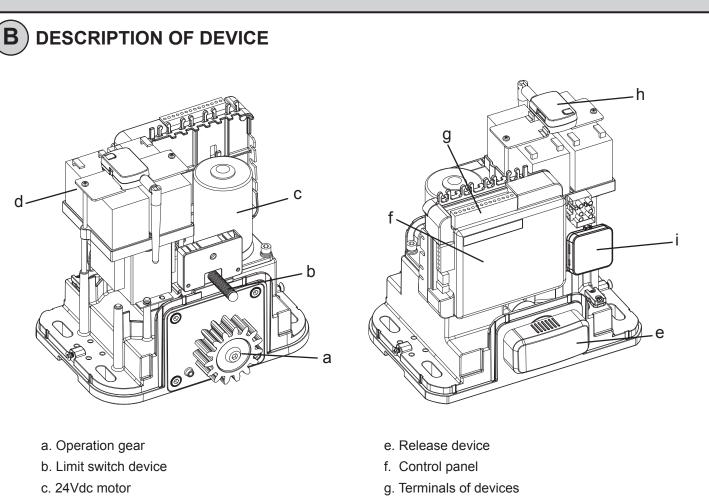
- (1) All installations, electrical connections, adjustments and testing must be performed only after reading and understanding of all instructions carefully.
- (2) Before carrying out any installation or maintenance operation, disconnect the electrical power supply by turning off the magneto thermic switch connected upstream and apply the hazard area notice required by applicable regulations
- (3) Make sure the existing structure is up to standard in terms of strength and stability
- (4) When necessary, connect the motorized gate to reliable earth system during electricity connection phase.
- (5) Installation requires qualified personnel with mechanical and electrical skills.
- (6) Keep the automatic controls (remote, push bottom, key selectors...etc) being placed properly and away from children.
- (7) For replace or repair of the motorized system, only original parts must be applied. Any damage caused by inadequate parts and methods will not be claimed to motor manufacturer.
- (8) Never operate the drive if you have any suspect with what it might be faulty or damage to the system.
- (9) The motors are exclusively designed for the gate opening and closing application, any other usage is deemed inappropriate. The manufacture should not be liable for any damage resulting from the improper use. Improper usage should void all warranty, and the user accepts sole responsibility for any risks there by may accrue.
- (10) The system may only be operated in proper working order. Always follow the standard procedures by following the instructions in this installation and operating manual.
- (11) Only command the remote when you have a full view of the gate.

BOSWEN shall not be liable for any injury, damage, or any claim to any person or property which may result from improper use or installation of this system.

Please keep this installation manual for future reference.

2. INSTALLATION:

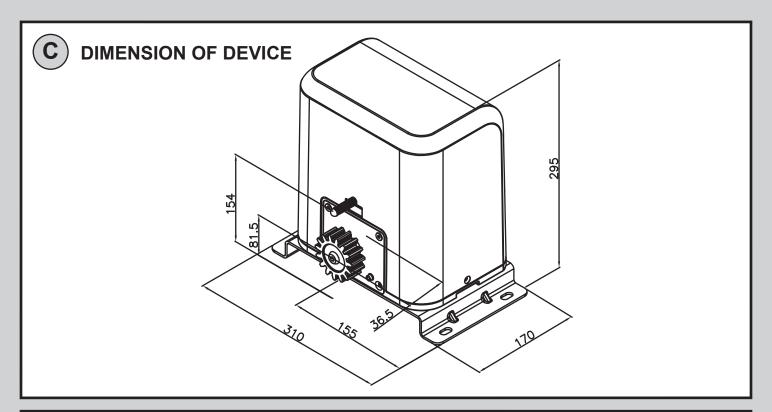


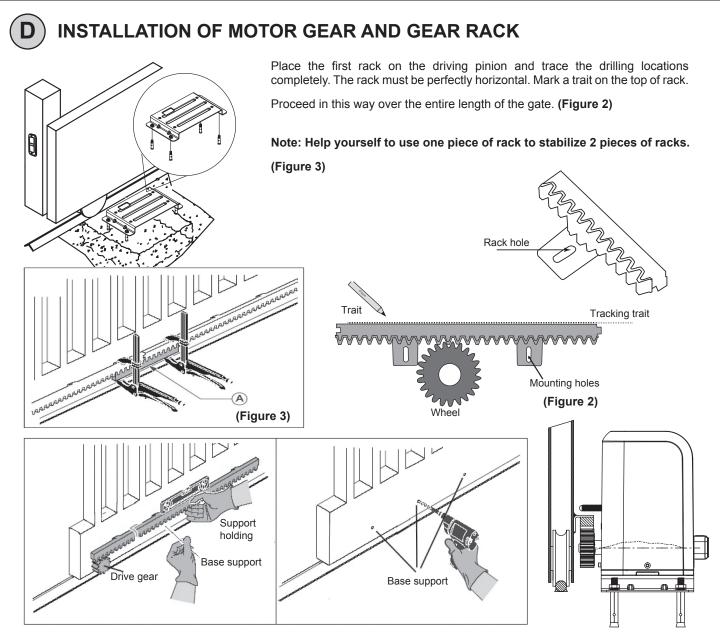


d. Back-up batteries (Optional)

h. Wifi Box (Refer to WB2 User Manual)

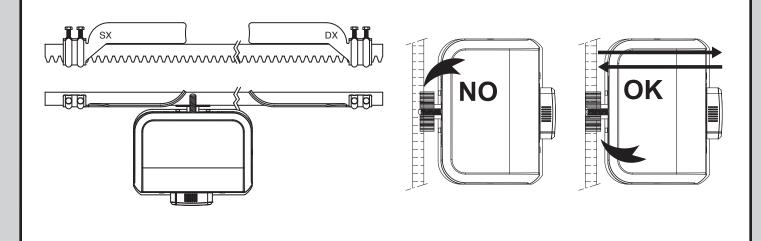
i. Green Box (Optional)





(E)

E) CHECKING FOR INSTALLATION





EMERGENCY RELEASE

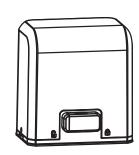
In the case of power failure for emergency release of the motor, please follow the procedure as below:

Step1. Push the lid of release chamber and move rightward

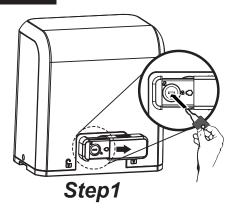
Step2. Insert the key and turn clockwise to unlock the device.

Step3. Turn counter-clockwise of the bar to release the motor

To restore the automation, simply reverse the above procedure.



RELEASE

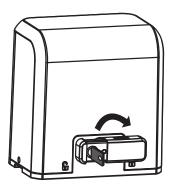


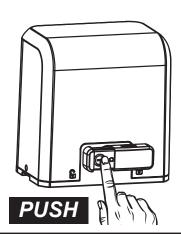




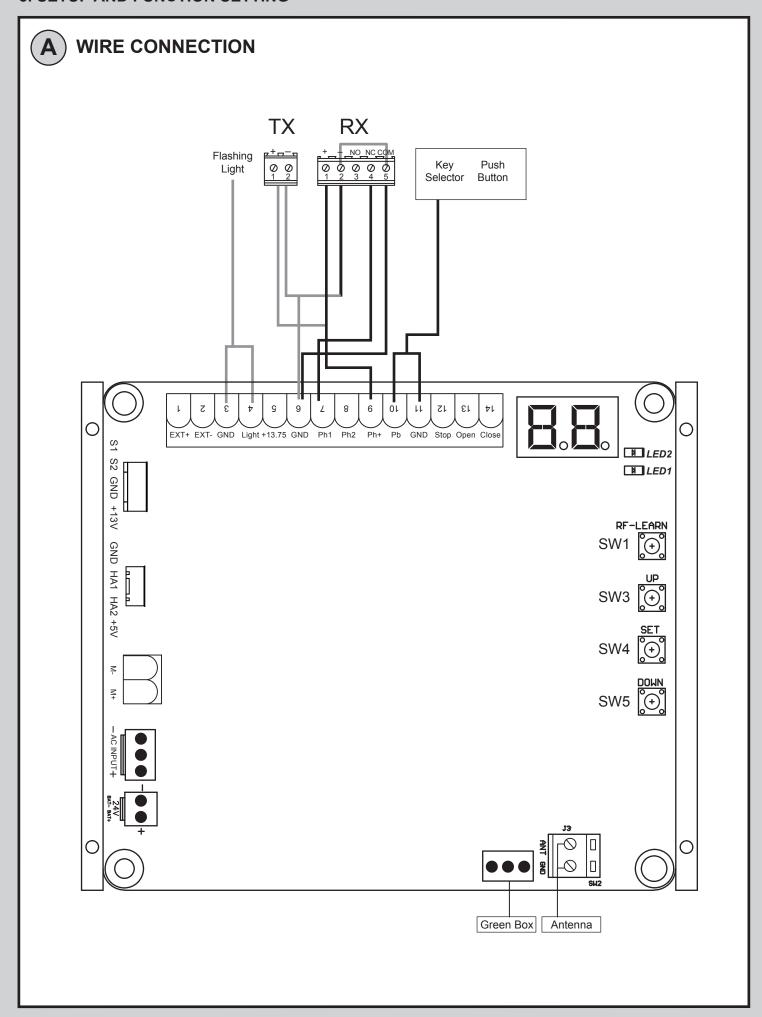
RESTORE







3. SETUP AND FUNCTION SETTING

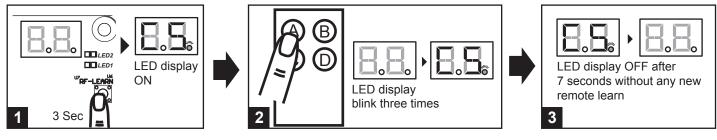




TRANSMITTER MEMORIZING AND ERASING PROCESS

(1) Transmitter Memorizing: Press "RF Learn" button for 3 seconds, and the LED display shows "CS"; then press the transmitter left button (A); the LED display will blink three times and stay on, and after 7 seconds without any new remote learn then the LED will be off The transmitter learning is completed. 1 2 3

(2) Erasing Memory: Press "RF Learn" button for 10 seconds as right LED display shows "CC", then all the memory will be deleted.





SYSTEM LEARNING, RESET PROCESS, AND LED DISPLAY

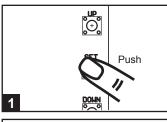
! CAUTION: Before proceeding to system learning, the transmitter memorizing process has to be completed.

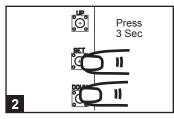
(1) To Complete the System Learning:

Step1: Press "SET"; then press "SET" + "DOWN" for 3 seconds, and the LED display shows "LE" 1 2 3

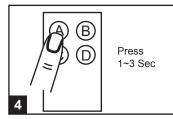
Step2: Press left button (A) on time, the LED display should show "LP" 4 5

Step3: The gate goes to Auto-learning, please wait for the learning process to be completed 6

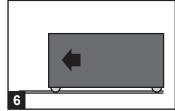








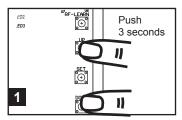






(2) To Reset Factory Setting:

Press UP and DOWN for 3 seconds, and the LED display shows "CL"





(3) Motor current auto-detection

The LED display shows the current consumption of the motor



"0.4": During the system learning procedure, the control panel will automatically detect the current consumption from each motor, indicate the resistance level of the gate whiling the motor operation. If this reading increase instantly or stay in high reading, please check if any object in between of the gate moving area, and contact your installer for inspection.

LED Display	Programmable Functions	LED Display	Programmable Functions
	"-L": The system learning is not done.		"LE": Enter learning mode and then wait for learning instructions.
	"OP": The system is in normal operation To program, press SET button for 3 seconds, when the LED display change from OP to 1, press UP or DOWN to change function		"LP": The system learning is in progress. The Auto-learning process of gate moving: "Gate open to the end- stop close to the end- stop."
	settings (1 to P). Then press SET to enter the sub function within each group, press UP or Down to select sub functions and press SET for confirmation.		"CL": Reset Factory Setting.
	"CP": system learning completed.		



HOW TO SET THE PARAMETER:

Step 1: Press the "Set" key for 3 seconds, the display will show the function code.

Step 2: Choosing the setting by Up and Down keys, after having chosen the indicated item, press the Set key and enter the setting of this function. The second digit will be shown on the right of the display, indicating the related function(please refer below chart for details). Using the Up and the Down Keys to choose the setting function and press the Set key to save.

PROGRAMMABLE FUNCTION SETTINGS LED Definition Value Description Function Operation Direction 1. The function can adjust the direction of gate opening. F1-1 Open to the left 2. The default setting is "F1-1". F1-2 Open to the right F1-1 F1-2 Auto-Closing F2 F2-0 No auto close (Default) 1. The function can be used to close the gate automatically after the paused time. F2-1 5 seconds 2. The default setting is "F2-0": 15 Secs as the paused time. F2-2 15 seconds 3. Auto close function can be locked by press and hold "D" key for two F2-3 30 seconds sec. the gate will get to fully open position and all the operation will be F2-4 45 seconds F2-5 60 seconds locked until press and hold the "D" key for 2 sec to activate the auto close function again. F2-6 80 seconds F2-7 120 seconds F2-8 180 seconds Safety Device Function 1. Please do the function setting after H & J Please refer to F3 function F3-1 Mode 2. The default setting is "F3-1". F3-2 settings at page 9 F3-3 opening operation speed 1. The function can adjust the running speed of motor. F4 F4-1 50% operating speed, 50% learning speed F4-2 2. The default setting is "F4-4". 70% operating speed, 50% learning speed Motor operation from deceleration zone: the motor will follow the F4-3 85% operating speed,50% learning speed F4-4 learning speed until it touch the limit switch 100% operating speed, 50% learning speed Motor operation from other zone: The motor will cost 1 sec from stop to full speed and it will stop till it approaches the limit switch. closing operation speed F5-1 1. The function can adjust the running speed of motor. 50% operating speed, 50% learning speed 2. The default setting is "F5-4". F5-2 70% operating speed, 50% learning speed F5-3 Motor operation from deceleration zone: the motor will follow the 85% operating speed,50% learning speed learning speed until it touch the limit switch F5-4 100% operating speed, 50% learning speed Motor operation from other zone: The motor will cost 1 sec from stop to full speed and it will stop till it approaches the limit switch. 1. The default setting is "F6-1" Deceleration point F6 F6-1 75% 80% F6-2 F6-3 85% F6-4 90% 25% F6-5 Deceleration speed 1. The default setting is "F7-3" F7 F7-1 80% F7-2 60% F7-3 40%

F7-4 25%

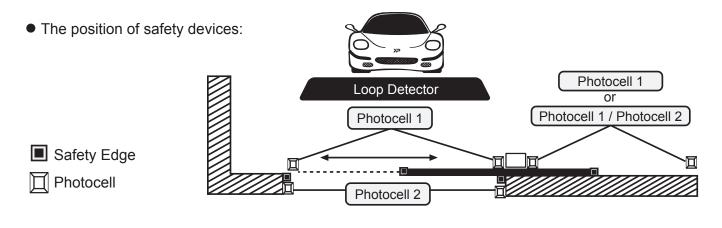
LED	Definition	Funct	ion Value	Description
F8	Opening Overcurrent Setting	F8-1	4A	The function can adjust the running force of motor to
10	opening overdenent country	F8-2	5A	be compatible with the gate weight.
		F8-3	6A	The default setting is "F8-5".
		F8-4	7A	WARNING: The maximum overcurrent for 500kg motor is 10A, it may
		F8-5		
			8A (Default)	have the potential risk if the adjustment over 10A current.
		F8-6	94	
		F8-7	10A	
		F8-8	11A	
		F8-9	12A	
		F8-10	13A	
F9	Closing Overcurrent Setting	F9-1	4A	The function can adjust the running force of motor to
		F9-2	5A	be compatible with the gate weight.
		F9-3	6A	2. The default setting is "F9-5".
		F9-4	7A	WARNING: The maximum overcurrent for 500kg motor is 10A, it may
		F9-5	8A (Default)	have the potential risk if the adjustment over 10A current.
		F9-6	9A	
		F9-7	10A	
		F9-8	11A	
		F9-9	12A	
		F9-10	13A	
FA	Podostrian Mada			1. The function can adjust the time of energies resticity.
FA	Pedestrian Mode	FA-1	3seconds	The function can adjust the time of opening partially. The default patting in IFA 2!! The default patting in IFA 2!!
		FA-2	6seconds	The default setting is "FA-2".
		FA-3	9seconds	
		FA-4	12seconds	
		FA-5	15seconds	
		FA-6	18seconds	
FC	Flashing Light	FC-0	The motor and flashing light will operate at the same time	The default setting is "FC-0".
	If the motor stop by over	FC-1	Followed with FC-0, the flashing light will keep blinking for	
	current or limit switch, the		1 minute after the motor stop	
	flashing light will keep	FC-2	Followed with FC-0, the flashing light will keep blinking for	
	blinking for 1 minute		10 minutes after the motor stop	
FE	Over Current Reaction	FE-0	Stop	The default setting is "FE-3".
		FE-1	Reverse 1 second and stop	2. The reverse function only operates 3 times and stops.
		FE-2	Reverse 3 seconds and stop	3. If gate reverses, the auto-closing function will be cancelled.
		FE-3	Reverse to the end	
FF	Main Operation Key	FF-1	Akey	1. The default setting is "F-1".
	main operation to	FF-2	B key	
		FF-3	C key	
	Dedeatries for stice	FF-4	D key	The default askins in UCLI O
FH	Pedestrian function	FH-0	No function	The default setting is "FH-2".
		FH-1	A key	
		FH-2	B key	
		FH-3	C key	
		FH-4	D key	
FJ	External Device Key	FJ-0	No function	The default setting is "FJ-3".
		FJ-1	A key	
		FJ-2	B key	
		FJ-3	C key	
		FJ-4	D key	
FL FL	Photocell 1 Activation	FL-0	Function OFF	1.The default setting is "FL-0".
		FL-1	Function ON	_
FP	Photocell 2 Activation	FP-0	Function OFF	1.The default setting is "FP-0".
		FP-1	Function ON	
———FU	PCB Stop Terminal	FU-0	Function OFF	1. Default setting "FU-0".
FU	-			1. Dolauk seking 1 0-0 .
	Activation	FU-1	Function ON	1 Default acting "EA 4"
FA.	PB Terminal Function	FA1	Open-Stop-Close-Stop	1. Default setting "FA _• -1".
		FA2	Open Only	
		FA ₋ -3	Pedestrian Mode	
FC.	Open Terminal Function	FC _• -1	Open-Stop-Close-Stop	1. Default setting "FC -2".
		FC _• -2	Open Only	
		FC3	Pedestrian Mode	
				TONIC AT / AT CLIDING CATE ODENIED LICED MANULA

• F3 function settings:

Logic F3-1	The reactions of the photocells when detecting obstacles		
Gate Status	Photocell 2	Photocell 1	
Closed	Not allow to open	No effect	
Open	No effect	Reload auto-closing time or stop	
Stop during moving	Not allow to open	Reload auto-closing time or stop	
Closing	Open	Open	
Opening	No effect	No effect	

Logic F3-2	The reactions of the safety edge/ photocell when detecting obstacles		
Gate Status	Safety Edge Photocell 1		
Closed	Not allow to open	No effect	
Open	Reload auto-close time or stop	Reload auto-closing time or stop	
Stop during moving	Not allow to open or close	Reload auto-closing time or stop	
Closing	Reverse to open for 2 sec	Close	
Opening	Reverse to close for 2 sec	No effect	

Logic F3-3	The reactions of the loop detector/ photocell when detecting obstacles		
Gate Status	Loop Detector	Photocell 1	
Closed	Open	No effect	
Open	Reload auto-closing time or stop	Reload auto-closing time or stop	
Stop during moving	Open	Reload auto-closing time or stop	
Closing	Open	Open	
Opening	No effect	No effect	



F

RECOGNITION OF LED

LED Indication	Descriptions
LED1 Photocells Indicator	LED1 will be on when the first pair of the photocells are activated.
LED2 Photocells Indicator	LED2 will be on when the second pair of the photocells are activated.

4. Technical Characteristics:



(A) TECHANICAL DATA SHEET OF SERIES

Motor	A5
Gear type	Worm Gear
Peak thrust	7500N
Nominal thrust	7000N
Engine RPM	3600RPM
Absorbed Power	144W
Power supply	24 Vdc
Nominal input power	6A
Maximum gate weight	Up to 800 KG
Maximum gate length	8M
Operating Temperature	-20°C~+50°C
Dimension LxWxH mm.	250*170*265mm
Weight	9.5kg
Speed	25.67cm/s

B H2 PHOTOCELL DATA SHEET

Detection type	Through beam
Operating distance	15 meters
Response time	100ms
Input voltage	AC/DC 12~24V
Operating Temperature	-20℃~+60℃
Protection class	IP54
Dimension	96mm * 45mm * 43mm

C TM3 TRANSMITTER DATA SHEET

Application	Radio transmitter
Frequency	433.92Mhz
Coding	Rolling code
Buttons	4, for single-gate or dual-gate operation
Power Supply	3V with one CR2032 button type lithium battery
Operating Temperature	-20°C~+50°C
Dimension	71.5mm * 33mm * 14mm



D FL2 FLASHING LIGHT DATA SHEET

Application	For outdoor use
Installation	Wall mounted vertically
Operating Temperature	-20℃~+50℃
Dimension	85mm * 60.5mm * 40.5mm