



**FAST PARK SERIES**

## Safety instructions

- Please read this manual carefully before installation, in which involves with important information about installation、 using、 maintenance and safety.
- Any undefined operations under this manual is not allowed, incorrect using may damage the product even causing the injuries or property losses.
- To consider the possible danger during the installation or using process of swing gate operator, installation must strictly comply with the construction standard and electrical operating procedure.
- Before installation, please make sure that the power voltage being used matches with the supply voltage of this product. Please check if the leakage protection switch is installed and the grounding system is correct.
- Please check if additional equipment or materials are required to meet the specific requirements.
- The disposal of packaging material must be complying with the local regulation.
- Please do not change any parts except for those defined under this manual. Any undefined changes may cause the malfunction. Any damages to the product arising therefrom shall be beyond the liability of the company.
- Please do not leak water or any liquid into the controller or any other open devices. Please disconnect the power immediately if any mentioned cases happened.
- Please keep this product away from heat and open fire. Or it may damage the components; cause the failure or other hazards.
- Please make sure there is no vehicles、 passengers and objects passing through while the swing gate is moving.
- Anti-clip equipment like infrared protection switch must be installed to avoid injuries to person and property losses. The company shall not be liable for any damage or accident arising therefrom.
- Photocells must be installed for vehicles protection
- Safety edge must be installed for peoples protection
- The installation、 using and maintenance of this product must be carried out by professionals.
- Children are not allowed be touch the control devices or remote transmitters.
- A warning sign must be placed somewhere on the barrier according to the national standard.
- Please keep this instruction properly for future reference.

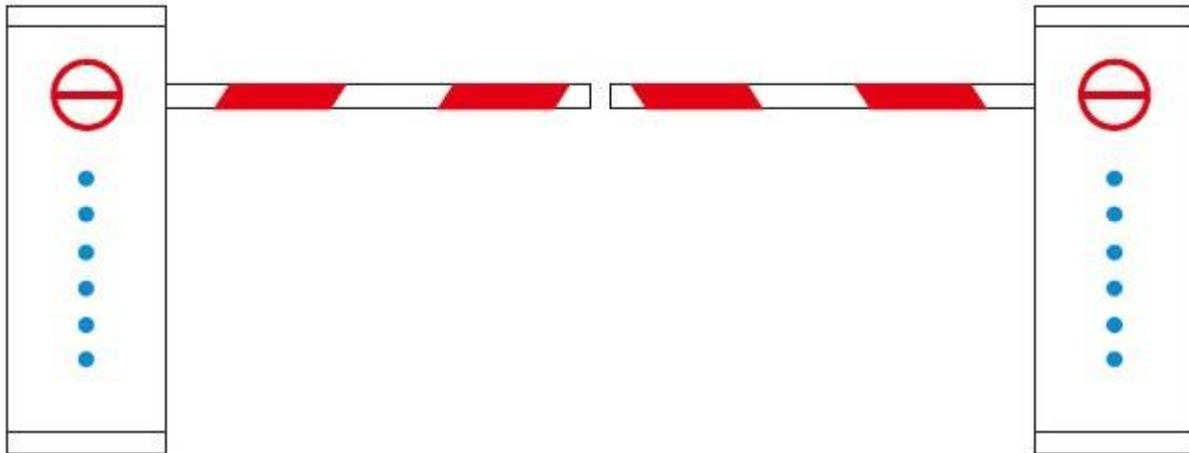
## Technical Characteristics

Models	FAST-PARK 24v	FAST-PARK LED 24V	FAST-PARK FOLDING 24V	FAST-PARK FENCE 24V
Power Supply	24VDC			
Motor Power	100W			
Opening Time Closing Time (depends on the boom type)	1,8 sec-3 sec 3 sec-6 sec			
Height boom support	890mm			
IP protection rate	IP54			
Temperature	-20°C - +70°C			

## Boom Type – Opening/Closing Time

Product Code	Boom Type	Length Boom	Opening Time	Closing Time
Fast- Park 24V	Telescopic Boom	<3,50	1,8 seconds	2 seconds
Fast- Park 24V	Telescopic Boom	<4M	3 seconds	3,50 seconds
Fast- Park 24V	Telescopic Boom	<6 M	5 seconds	6 seconds
Fast-Park LED 24V	LED boom	< 3M	1,8 seconds	2 seconds
Fast-Park LED 24V	LED boom	<4.50M	3 seconds	3,50 seconds
Fast-Park Folding 24V	Folding Boom	<6M	5 seconds	6 seconds
Fast-Park Fence 24V	Fence Boom	<4.50M	3 seconds	3,50 seconds

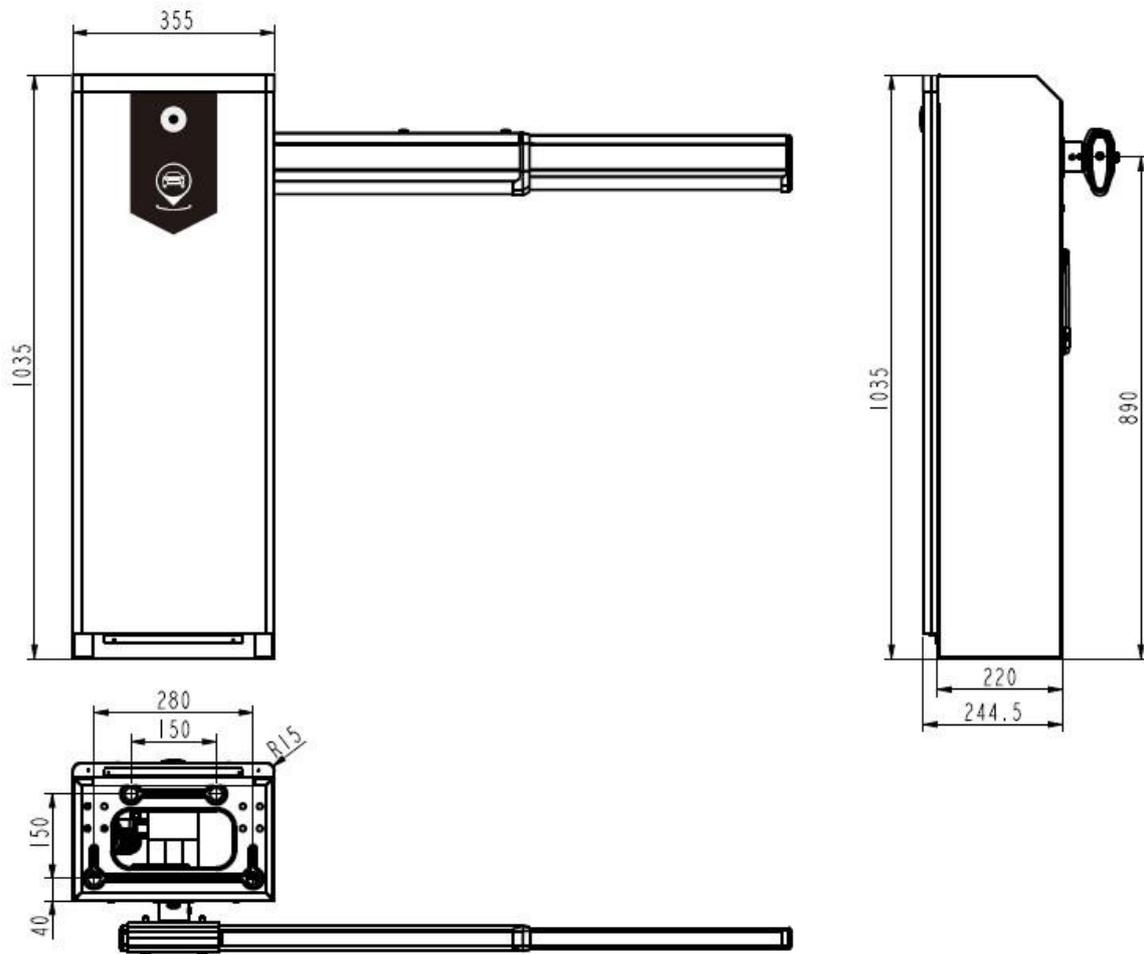
## Barrier Direction



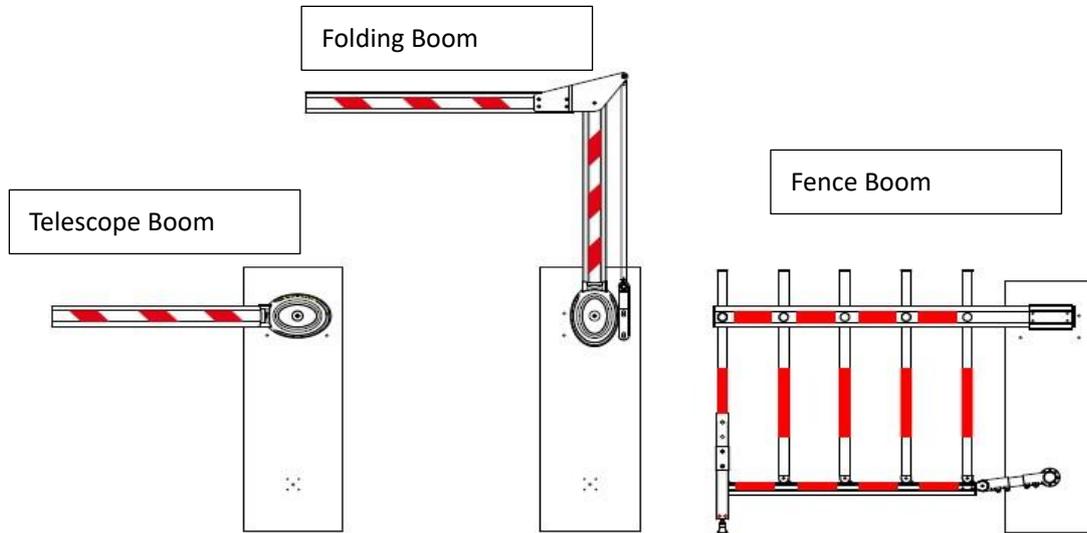
Left-hand Barrier

Right-hand Barrier

## Barriers Dimensions



## Boom Types



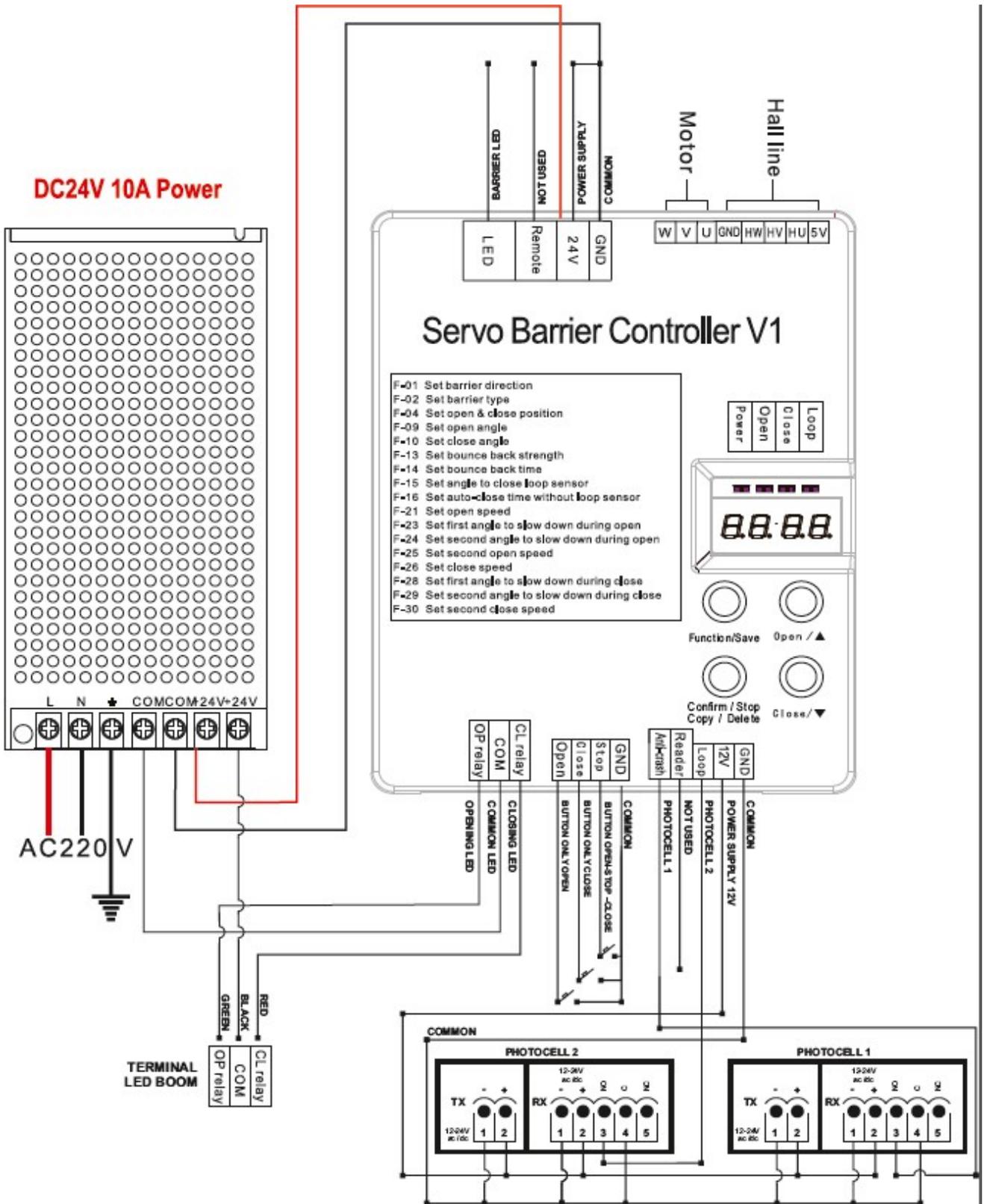
## Barrier Installation

- The installation of the barrier must be done on solid ground/base. It is not advisable to place the barrier on sloping ground.
- The barrier base must be horizontal. The base of the ground should be 100-150mm higher than the base of the barrier.
- Boom support is recommended to be installed.
- During installation, turn off the power supply.

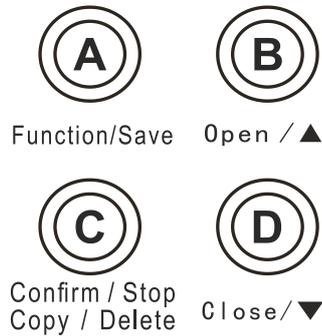
## Control board technical characteristics

Power Supply	24VDC
Current Absorption	5 A -15 A max
Motor Type	Brushless 24V
Encoder	YES
Temperature	-40 oC - + 85oC
Control Board Protection	Overcurrent Protection/ Overvoltage Protection/ Short circuit Protection

# Control Board Connection

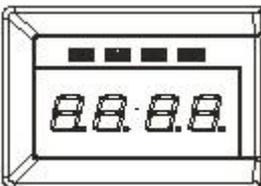


## Control Board button



FUNCTION/ SAVE	<ul style="list-style-type: none"> <li>• Enter/exit menu</li> <li>• Barrier Command</li> </ul>
CONFIRM/STOP/COPY/DELETE	<ul style="list-style-type: none"> <li>• Save</li> </ul>
OPEN CLOSE	<ul style="list-style-type: none"> <li>• Menu Navigation</li> <li>• Open/Close barrier command</li> </ul>

## LCD programming

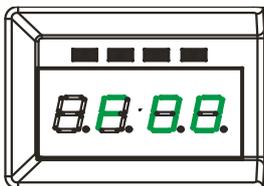


### Initial display

Once we power the barrier, we see the initial display. Initial display shows the boom position in degrees (00-99).

### Configuration Menu

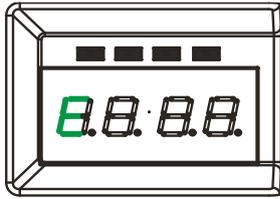
Press steadily for 3 seconds the button FUNCTION/SAVE for entering the menu. Be careful, the barrier takes command.



On the display, we see F-00.

To navigate the menu, we use the button UP+DOWN. In order to return the initial display, we press steadily for 3 seconds the button FUNCTION/SAVE.

For configuration, see the following table.



## Error Display

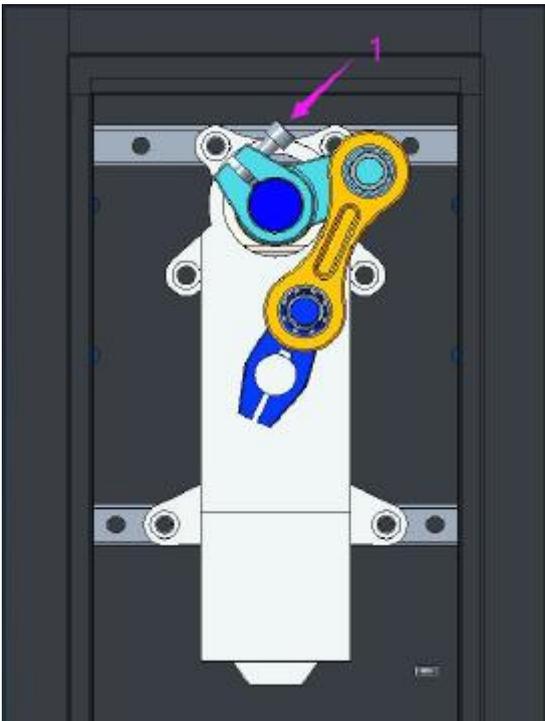
When error occurs in the barrier, a message appears on the display. See the following table for error solving.

### Settings

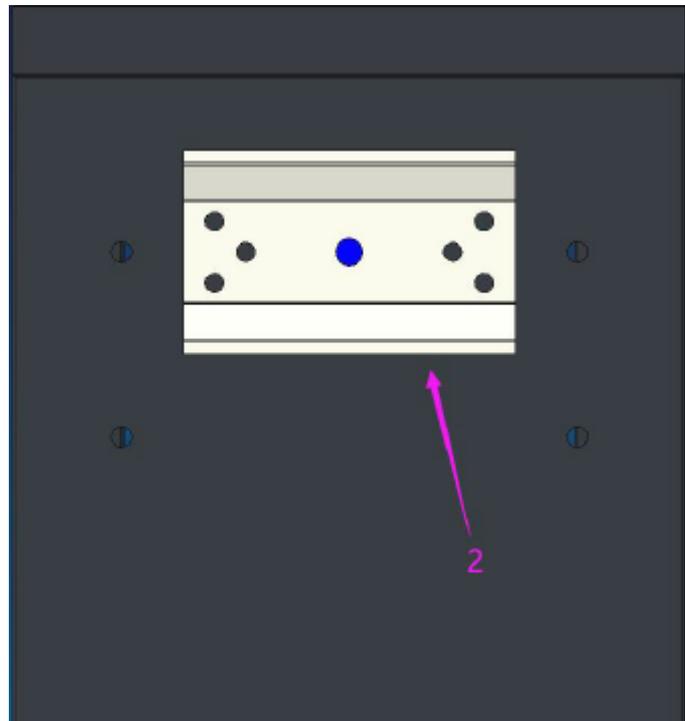
#### 1) Barrier Direction Change without spring.

If the boom moves in the opposite direction than the direction you want then follow the procedure below. Otherwise, proceed to step 2.

- Remove the boom from its base
- Move the base of the boom to its vertical position (either with the control or manually)
- Unscrew the two screws completely as shown in picture 1
- With your hands, move the base of the boom to its horizontal position as shown in picture 2
- Screw the screws that we unscrewed in picture 1 very well
- The barrier has changed direction



Picture 1



Picture 2

## 2) Change automation polarity on the barrier without spring

After the boom moves in the correct direction, we check the polarity of the automation.

By pressing the UP button the boom should go up, by pressing the DOWN button the boom should go down.

**If the opposite happens, follow the procedure below, otherwise proceed to step 3.**

- Navigate to F-01 in the menu and momentarily press the Function/Save button to enter it
- If the symbol "0---" appears on the screen, change it to "---0" with OPEN or CLOSE. (If the symbol "---0" appears, change it to "0---")
- Press and hold the "Confirm/Stop/Copy/Delete" button until two underscores \_\_ appear on the screen. Be careful the automation will take command.
- Press and hold the Function/Save button for three seconds to save your change. The message ES may appear on the display.
- Cut power to the board for 10 seconds by removing the 24VOLT terminal from the board (automation power terminal – see above)

Only for this change the power to the board needs to be cut

## 3) Opening / Closing Time automatically

- Navigate to F-04 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE select the value 00
- Momentarily press the "Confirm/Stop/Copy/Delete" button and the automation will restart
- Momentarily press the "Function/Save" button and the automation will start setting its upper and lower limit. Wait until the cycle is complete and the boom reaches the open position.
- The learning time is complete

## 4) Set the opening angle

- Navigate to F-09 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE you set the desired opening angle (0 - 99. Default 90)
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command.

## 5) Set closing angle

- Navigate to F-10 and follow the same procedure as with the opening angle. The values (00-30 correspond to angles -6 degrees to 0 degrees and 30-99 correspond to angles 0 to 13.6 degrees)

## 6) Set opening speed

- Navigate to F-21 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired value for the opening speed (00-99 seconds – Default value 90)
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command.

### 7) Set first angle of slowing down during opening

- Navigate to F-23 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired opening deceleration angle (00-99 degrees Default value 40). A larger value means a larger deceleration angle
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command

### 8) Set closing speed

- Navigate to F-26 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired value for the closing speed (00-99 seconds Default value 90)
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command

### 9) Set first angle of slowing down during closing

- Navigate to F-28 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired closing deceleration angle (00-99 degrees Default value 50. Higher value means greater deceleration angle)
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command

### 10) Set automatic close time

- Navigate to the F-16 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired value for automatic closing in seconds from 00 – 99 seconds, where 00 to cancel automatic closing
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command

### 11) Set automatic closing time for photocell 2

- Navigate to F-40 and momentarily press the Function/Save button to enter it
- With OPEN or CLOSE choose the desired value for automatic closing in seconds (00-99 seconds)
- Press the "Confirm/Stop/Copy/Delete" button to save the desired value. Be careful the automation will take command.

## Overview Settings Table

Programs	Function	Default Price	Description
F-01	Barrier Polarity	0---	See above step 2
F-04	Opening/Closing Position		See above step 2
F-07	Led boom mode	00	00 : Traffic Light 01 : Traffic Light 1 02 : Traffic Light 2 03 : Alarm Light
F-09	Opening Angle	90	00-99 degrees
F-10	Closing Angle	30	00-30 -> -6 to 0 degrees

			30-99 -> 0 to 13.6 degrees
F-12	Lock current	05	00 Lock current OFF 00-20 (recommended prices 10-15)
F-13	Obstacle detection strenght	70	00-99
F-14	Obstacle detection response time	09	00-99
F-16	Automatic Close time	00	00 : OFF 01-99 sec
F-20	Starting Speed	10	00-99
F-21	Opening Speed	80	00-99
F-22	Opening Acceleration	20	Do not change
F-23	First opening deceleration angle	50	00-99 : Larger value larger deceleration angle
F-24	Second opening deceleration angle	00	00-99 : Larger value larger deceleration angle
F-25	Opening deceleration	01	Do not change
F-26	Closing speed	80	00-99
F-27	Closing Acceleration	20	Do not change
F-28	First closing deceleration angle	50	00-99 : Larger value larger deceleration angle
F-29	Second closing deceleration angle	00	00-99 : Larger value larger deceleration angle
F-30	Closing Deceleration	01	Do not change
F-36	Initial speed after power reset	30	Do not change
F-40	Automatic close (photocell 2)	00	00-99 seconds
F-99	Default Settings	XX	XX software version 00 Factory reset

## Error display

Message	Description	Troubleshooting
E1	Motor failure	- Check the motor UVW cables
E2	Encoder failure	- Check the HU, HV, HW cables of the encoder
E4	Lowpower failure	- Check mains voltage. If it is not good, replace the power supply of the barrier
E5	Current failure	-Check if any obstacle interferes with the smooth movement of the boom -Change with F-13 the current of the obstacle detection strenght - Check if the spring of the automation is correctly adjusted -The drive system has a fault

## Barrier Manual Release

For barrier manual release

- power off the barrier
- rotate the hand crank shaft to the desired direction (clockwise or counter clockwise)
- until the motor arm reaches the corresponding limit screw



The motor arm must reach and touch the corresponding limit screw in order for the barrier to lock into terminal position.

It is recommended that the barrier should move under human control during manual release process.

