

BASE 50

Industrial Door DriveControl System

Instructions And User Guide

Version 1.8

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GENERAL SAFETY INFORMATION

Specified use

The industrial door drives intended for a power-operated door with a drive unit. The safe operation is only guaranteed with specified normal use. The drive unit is to be protected from rain, moisture and aggressive ambient conditions. No liability for damage caused by other applications or non-observance of the information in the manual.

Modifications are only permitted with the agreement of the manufacturer. Otherwise the Manufacturer's Declaration shall be rendered null and void.

Safety information

Installation and commissioning are to be performed by skilled personnel only. Only trained electrical craftsmen are permitted to work on electrical equipment. They must assess the tasks assigned to them, recognize potential danger zones and be able to take appropriate safety measures.

Installation work is only to be carried out with the supply off.

Observe the applicable regulations and standards.

WARNING: Important safety instructions.

- It is vital for the safety of people to follow all instructions. Keep this manual.
- Do not let children play with the appliance or control devices including remote controls.
- Follow all instructions, as incorrect installation can lead to serious injuries.
- The actuating element of the dependent switch must be positioned so that it can be seen directly on the driven part, but out of reach of the moving parts. If it is not actuated by a key, it must be placed at a minimum height of 1.5 m and not accessible to the public;

after installation, make sure that the mechanism is set correctly and that the protection system and any manual controls work properly.

Coverings and protective devices

Only operate with corresponding coverings and protective devices. Ensure that gaskets are fitted correctly and that cable glands are correctly tightened.

Weighted sound pressure emission level A of the motor

LpA less than or equal to 70 dB (A).

WARNING Z101 . - The effect of noise emitted by the structure, including the driven part to which the drive will be connected, is not considered.

Spare parts

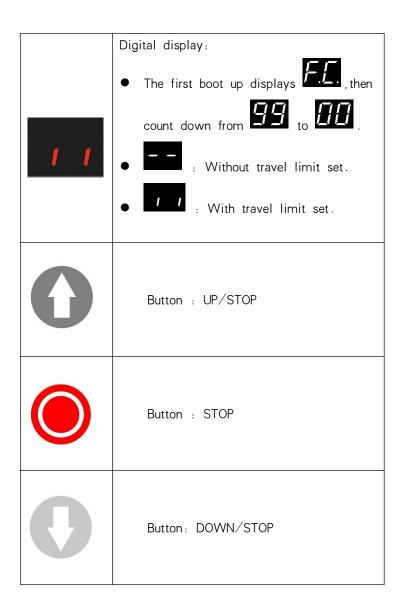
Only use original spare parts.

TECHNICAL DATA

Model	BASE 50
Max. output torque (Nm)	50 Nm
Rated output torque (Nm)	35 Nm
Output speed (rpm)	24-32 rpm
Output shaft/hollow shaft (mm)	ф 25.4 mm
Static holding torque (Nm)	400 Nm
Door area (m²)	≤22 m²
Input voltage (V)	110-127V or 220-240V or 380-420V
Motor power (W)	450 W
Control system	24V DC
Thermal protection temperature (° C)	105 ° C
Max. cycles per hour (Cycle)	20 cycles
Class of protection	IP 54
Limit switch range (maximum revolutions of output shaft / hollow shaft)	15 turns
Temperature range (° C)	-20° C~+40° C

OVERVIEW OF CONTROL





BASIC BUTTON INSTRUCTION

Item	Button	Description
1.	SET	Short press: Confirm setting; Long press: Enter the function menu setting
2.	+	Short press: Adjust the function menu Long press: Restore factory setting
3.		Short press: Adjust the function menu Long press: Running cycle counter inquiry
4.	RAIL SYSTEM	Short press: Return Long Press: Enter into rail system selection (Refer to the quick operation guide for details — Page 6)
5.	AUTO CLOSE	Short press: Quick activate "AUTO CLOSE" function
6.	FORCE MARGIN	Short press: Quick activate "FORCE MARGIN" function
7.	RJ45	RJ45 Connection port: Drive head & Control box
8.	RJ11	RJ11 Connection port: Drive head & Wired wall button

COMMON FUNCTION QUICK SETTING INSTRUCTION

Function	Operation	Description
Item		
AUTO CLOSE	Short press: AUTO CLOSE	Important: The "AUTO CLOSE" only can be activated when the Photo beam or light curtain has been correctly installed and the photo beam function has been enabled from function menu (Refer to page 17–18 — Menu 5). Short press the "AUTO CLOSE" button, when the indicator light is turned on. It means the "AUTO CLOSE" function has been activated. (Default: The door only can auto close while in the open limit position. And the Auto Close time is 15 seconds).
		Refer to page 16 $-$ Menu 4 to change any setting for AUTO CLOSE conditions or time if necessary.
		Note: If there is no any photo beam or light curtain installed, the door can not be closed, and the LED display will show the letter "E6" as an indication. Short press the "AUTO CLOSE" button, when the indicator light is turned off. It means the "AUTO CLOSE" function has been dis—activated.
Force Adjustment	Short press: FORCE MARGIN	 Short press the button, the digital display will indicate the current force level firstly Continually short press the button: Incremental rolling display the force level between L1: Minimum force level; L9: Maximum force level Note: L3 to L7 is recommended.
Running Cycle Counter Inquiry	Long press the button for 6 seconds:	The digital will rolling display it represents the drive has been 10 running cycles worked. Note: The running cycles is displayed in 6 digits
Restore Factory Setting	Long press the button for 10 seconds:	The digital will rolling display FFFF, then release the button, it means the drive has been restored to factory setting. Note: The running cycle counter record will not been cleared.

QUICK SETTING TO GUIDE THE DRIVE WORKS

BY "AAS" (Auto adaptive system)

Important:

- "AAS" will automatic identify the door condition to define a best program for its "Open/ Close speed", "Soft start/ soft stop ranges" and "Force sensitivity".
- A quick setting guide the drive will work properly after below operation.

1.Long press:	All of the indicator lights are light up constantly for "SL, HL, VL" and then off.
RAIL SYSTEM	Then release the button until one of the indicator lights flashes.
over 3 seconds to	
enter into RAIL	
SYSTEM	
selection	
2.Short press:	SL HL VL
0,0	The corresponded light flashes for "SL, HL, VL"
to select the	
corresponded	
RAIL SYSTEM of	SL: Standard lift sectional doors with cylindrical cable drum
the door.	HL: High lift sectional doors with cylindrical—conical cable drum VL: Vertical lift sectional doors with conical cable drum
3. Short press:	The corresponded indicator light is constant on for "SL, HL, VL"
9	<u> </u>
to confirm the	Then, the digital display shows to start the OPEN travel limit setting.
selected Rail	
System	
4. Long press:	Long press the button + (Up) or - (Down) to set the door to the target OPEN
9 9	limit position, then release the buttons.
_ / •	Short Press the SET button once to store the open limit position, the digital displays
	to start the CLOSE travel limit setting.

5. Long press:





Long press the button + (Up) or - (Down) to set the door to the target CLOSE limit position then release the buttons.

Short press the SET button once to store the CLOSE limit position, then the door drive will automatically open and close the door to store the door weight and spring balance conditions.

Note:

a. If a system selection error occurs during the setting process, please

, Execute enter to exit the setting, and then execute the first operation again.

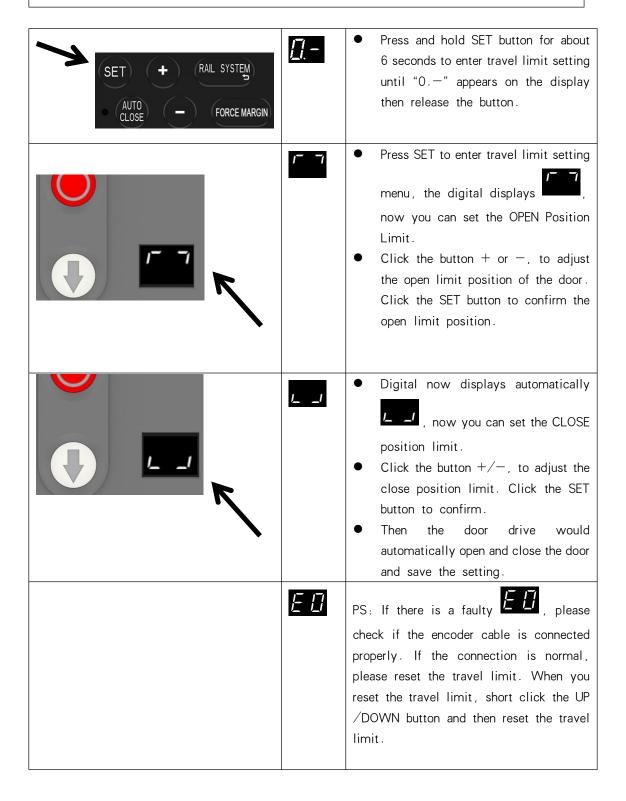
b. Active or change any stand alone function, refer to the below "FUNCTION TABLE MENU".

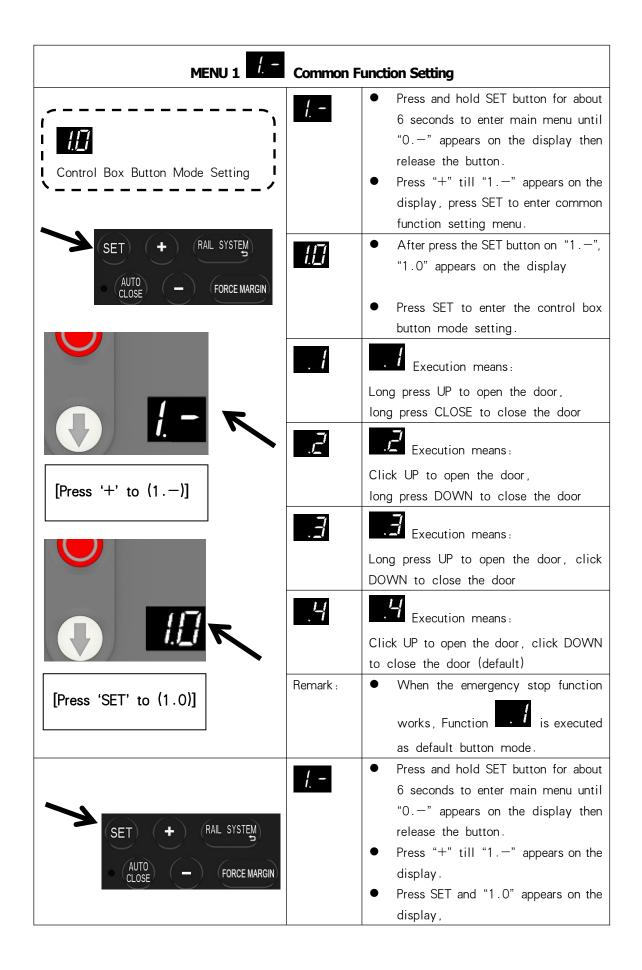
FUNCTION TABLE MENU ITEMS

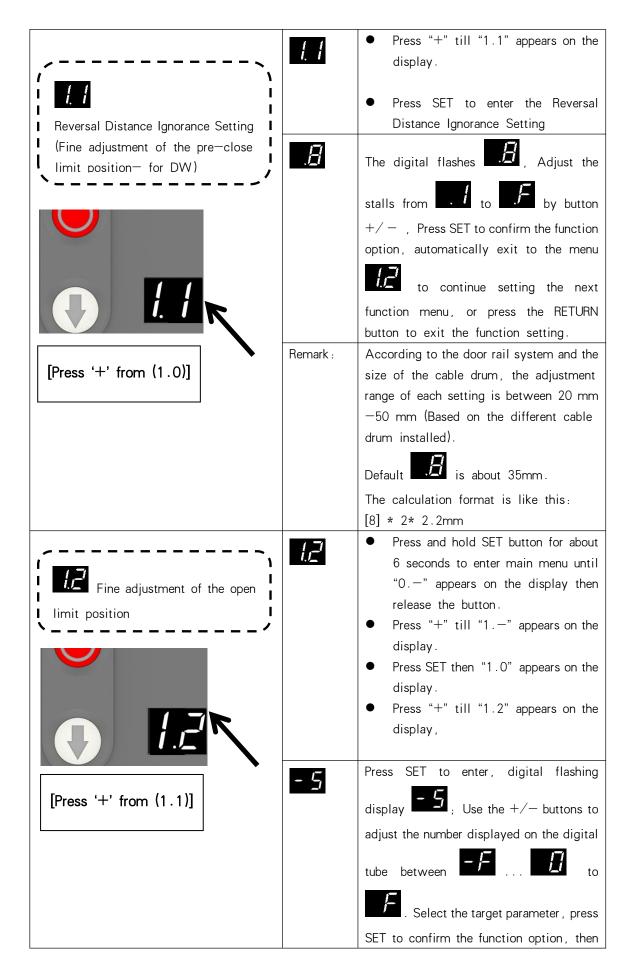
MENU	Function Table Menu	Status Indications
0	Travel Limit Setting	[]
1	Common Function Setting	<i>f.</i> –
2	Operating Parameter Setting	<u> </u>
3	Soft Stop (during-operation) Function Setting	<u> </u>
4	AUTO CLOSE Time & Condition Setting	<i>'-{</i>
5	Infrared Beam & Light Curtain Function	5
6	Terminals for Extra Function Setting	<u> 5</u>
7	Courtesy Light Function Setting	7
8	Maintenance Alarm Function Setting	<u>B</u>
9	Gear Motor Running Direction Rotating Setting	9

FUNCTION MENU DESCRIPTION

MENU 0 Travel Limit Setting

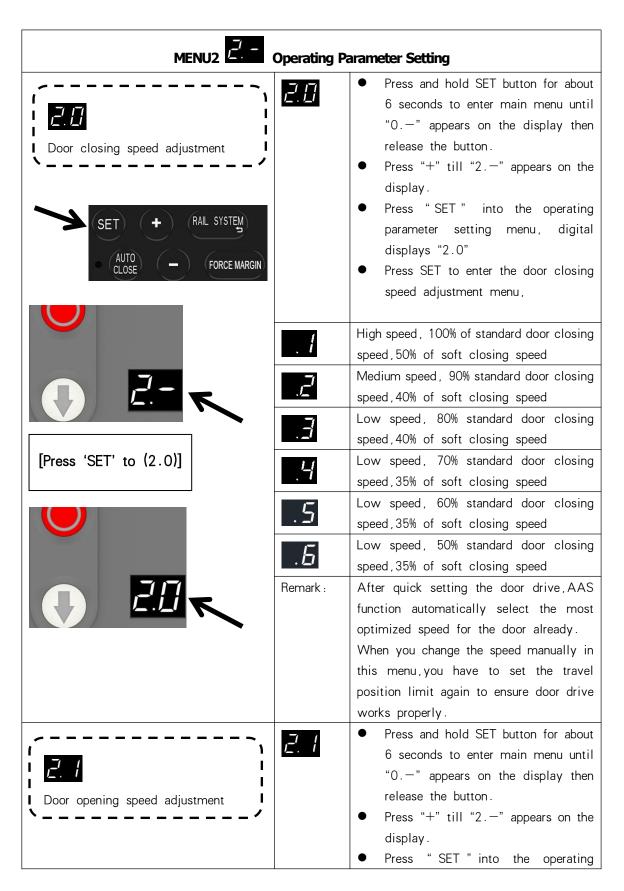






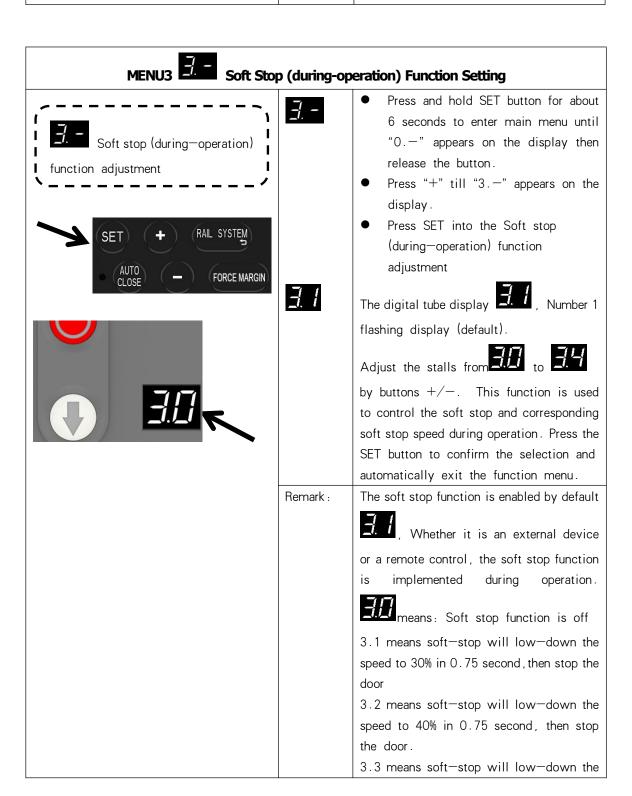
<u>-5</u>	Remark :	exit to the menu, Continue to set the next function menu, or press the cancel button to exit the function setting. Default a. Select to , which means the limit position moves further in the OPEN DOOR direction. b. Select to , which
Fine adjustment of the close limit position [Press '+' from (1.2)]	- 5	means the limit position moves in the door center direction. Press and hold SET button for about 6 seconds to enter main menu until "0.—" appears on the display then release the button. Press "+" till "1.—" appears on the display. Press SET then "1.0" appears on the display. Press "+" till "1.3" appears on the display. Press SET to enter, digital flashing display Light SET to enter, digital flashing display the number displayed on the digital
	Remark :	display between

door center direction.



	.1	parameter setting menu, digital displays "2.0" Press "+" till "2.1" appears on the display Press SET to enter the door opening speed adjustment menu, High speed, 100% of standard door opening speed, 50% of soft closing speed High speed, 90% of standard door opening speed, 40% of soft closing speed Medium speed, 80% of standard door opening speed, 50% of soft closing speed Low speed, 70% of standard door opening speed, 40% of soft closing speed
	Remark :	After quick setting the door drive, AAS function automatically select the most optimized speed for the door already. When you change the speed manually in this menu, you have to set the travel position limit again to ensure door drive works properly.
Soft closing distance adjustment	2.2	 Press and hold SET button for about 6 seconds to enter main menu until "0.—" appears on the display then release the button. Press "+" till "2.—" appears on the display. Press "SET" into the operating parameter setting menu, digital displays "2.0" Press "+" till "2.2" appears on the display Press SET to enter the Soft closing
	. <i>l</i> . <i>E</i> . 3	distance adjustment, Soft closing distance SL:10CM, HL:20CM, VL:25CM Soft closing distance SL:20CM, HL:30CM, VL:40CM Soft closing distance SL:25CM, HL:45CM, VL:50CM Soft closing distance
	Remark :	SL:40CM, HL:55CM, VL:60CM The above soft closing distance is estimated with 18—inch cable drum. The

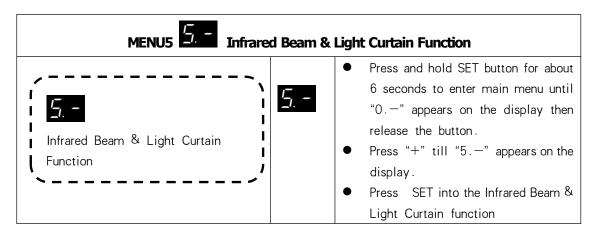
actual distance will be different according to the customer's cable drum diameter. The rail system (AAS) will automatically match the optimized soft closing distance. After the customer changes the default distance, the previous travel limit will be lost and needs to be re-learned.

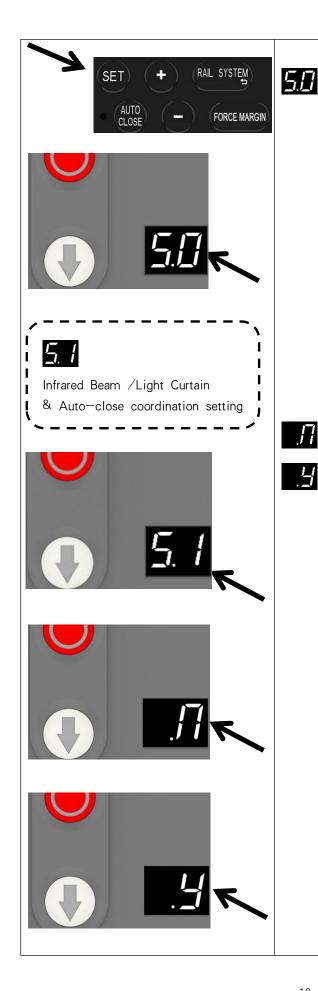


speed to 50% in 0.75 second, then stop the door. 3.4 means soft-stop will low-down the speed to 60% in 0.75 second, then stop the door. **AUTO CLOSE Time & Condition Setting** Press and hold SET button for about 6 seconds to enter main menu until "0.-" appears on the display then release the button. AUTO CLOSE time setting Press "+" till "4.-" appears on the display. Press SET enter into the AUTO CLOSE time and condition setting SET) Press SET again to enter, the digital displays (default) FORCE MARGIN $\Pi \exists$ Adjust the stalls from by buttons $\pm/-$, 5 seconds per stall AUTO CLOSE time calculation method is 5S*N, N=01-99. The maximum AUTO CLOSE time is 495S, press the SET button to store the required AUTO CLOSE time setting, then the digital tube displays (default) which means that it has entered the AUTO CLOSE condition setting, Adjust by buttons +/- from - or Select the corresponding function, press the SET button to save and exit the menu setting. The AUTO CLOSE function is turned on, Remark: which means the door is controlled by the AUTO CLOSE button on the control box. Condition means: Only after the

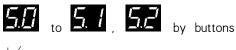
door is opened to the open limit position,

	the AUTO CLOSE function is effective and
	starts timing.
4,2	Condition means: After the door
	stops at any position when opening, the
	AUTO CLOSE function is effective and
	starts timing.
43	Condition 4.3 means: No matter where
	the door is open, as long as it is not at
	the close limit position, it will
	automatically close.
Remark :	a. If the infrared function is
	turned on, the AUTO CLOSE timing
	will stop when the infrared is blocked
	by an obstacle. After the obstacle
	removed, it will continue the
	previous timing and automatically
	close the door.
	b. When the door is about to
	close, the courtesy light flashes for
	warning.
	c. When the door is about to
	close, the warning light flashes to
	warn .
	d. Note: The flashing time of
	the warning light follows the courtesy
	light.
	e. The AUTO CLOSE function
	can only be used when the safety
	protection device is used correctly





- Press SET to enter, the digital displays (default);
- Adjust the stalls from



5.[] means : The infrared function is disabled.

means : The infrared function interface is enabled.

means: The built—in infrared beam identification function (Built-in light curtain identification function) is enabled.

Select function (default) , Press SET to save and exit the function menu.

function, which means the infrared beam function is enabled. Then after pressing the SET button to save

setting, the digital displays immediately after this operation, which means entering the coordination setting of infrared function and Auto-close function.

Adjust the stalls from to



by buttons $\pm/-$.

means: The infrared function is not related to the AUTO CLOSE function.

means: The AUTO CLOSE function must be enabled after the infrared function is turned on.

After selecting, press SET to save the setting and exit the function setting.

Important Notice:

Only the Normal-Close (NC) contact is compatible with the "PE" port terminal. 2. Make sure the Infrared Beam /Light Curtain has been correctly installed, otherwise the door will be allowed for opening but not closing. The digital

displays faulty **E E**





Built-in Infrared Beam /Light Curtain identification setting



Important Notes:

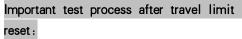
Pre-Installed and tested (Refer to the menu "5.1") the built—in Infrared Beam /Light Curtain to ensure it's correct performance before select the menu.

Select function, enter into the menu of built-in Infrared Beam /Light Curtain identification setting.

> The display shows I means the original travel limits should be re-set.

Refer to the menu the quick setting guide by "AAS" (Automatic adapt system) to reset the travel limit.

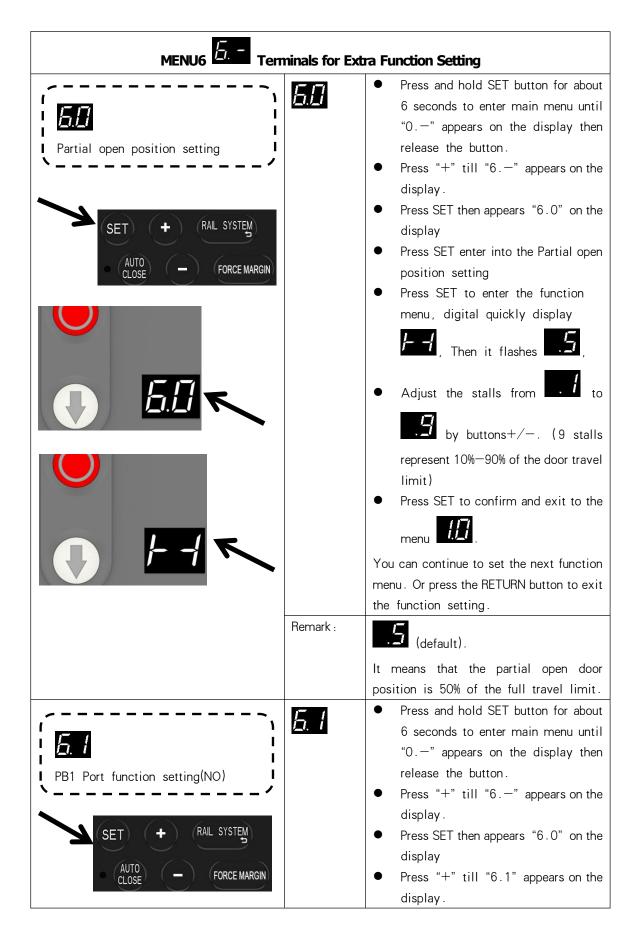
Remark: The built-in infrared Beam /Light Curtain will be identified automatically during the time of travel limit learning.



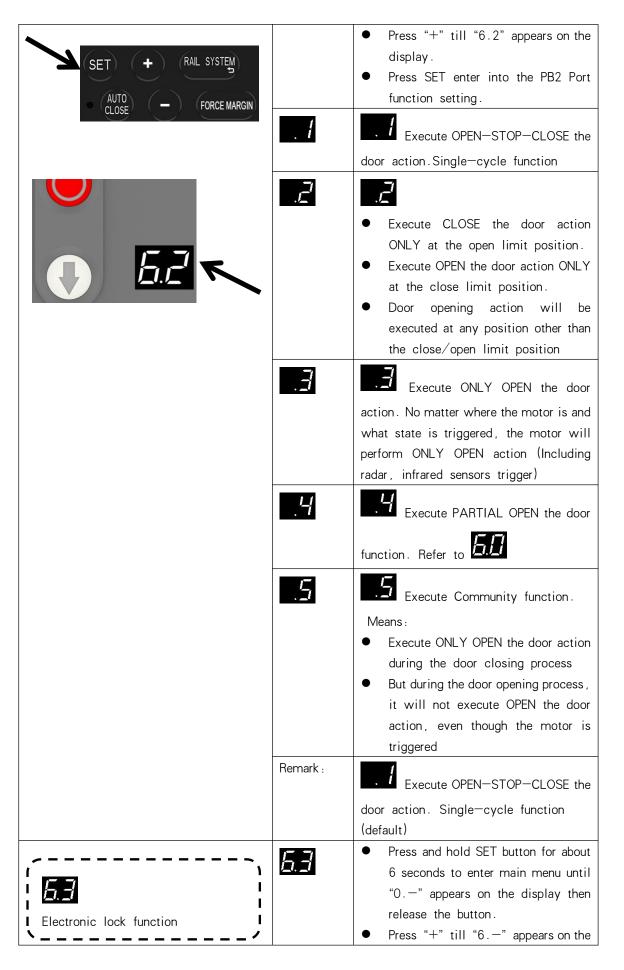
Press the "UP" button to open the door completely and then press the "DOWN" button to close the door, manually block the infrared sensor/light curtain during the door' s closing, ensure the door panel will be reversed correctly.

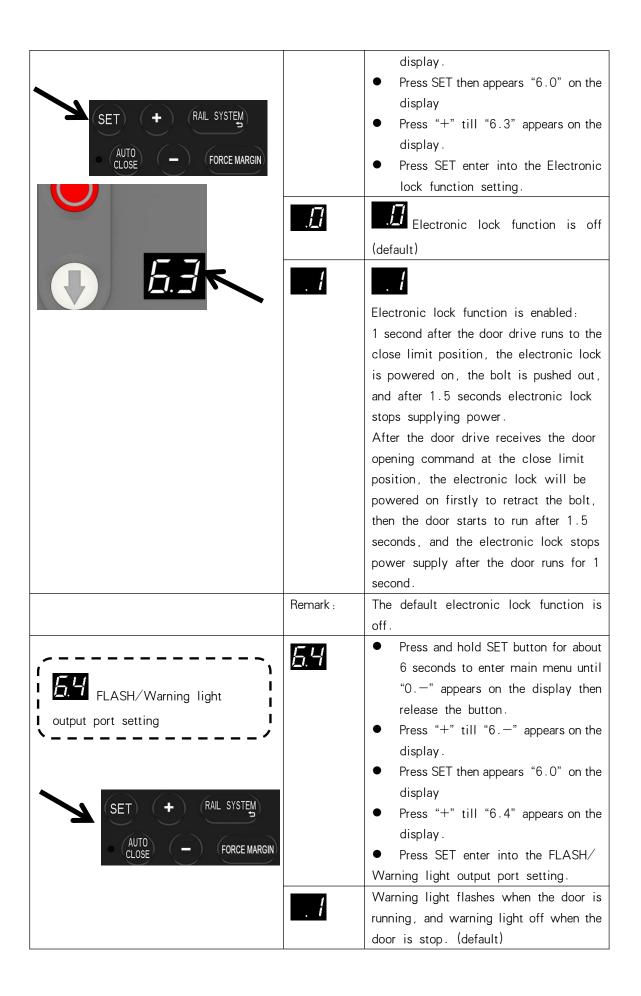


	Press the "Down" button to close the door again. The door can be closed properly which means the built—in infrared Beam /Light Curtain identification function works correctly.
Remark :	1. Only the Normal—Close (NC) contact is compatible with the "PE" port terminal. 2. Make sure the Infrared Beam /Light Curtain has been correctly installed, otherwise the door will be allow for opening but not closing. The digital displays faulty



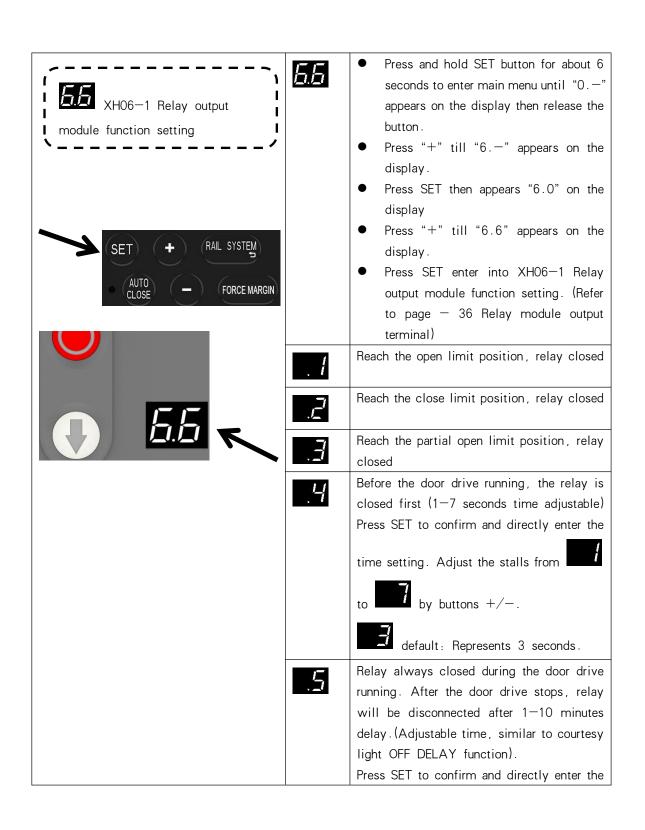
		Press SET enter into the PB1 Port
		function setting.
	. 1	Execute OPEN—STOP—CLOSE the
		door action.Single—cycle function
	اتر.	.2
		Execute CLOSE the door action ONLY at the open limit position.
		Execute OPEN the door action ONLY
		at the close limit position.
		• Door opening action will be
		executed at any position other than
	<u> </u>	the close/open limit position
	Ē.	Execute ONLY OPEN the door
		action. No matter where the motor is and
		what state is triggered, the motor will
		perform ONLY OPEN action (Including radar, infrared sensors trigger)
	.7	Execute PARTIAL OPEN the door
		function. Refer to
	.5	£ Execute Community function.
		(default) Means:
		Execute ONLY OPEN the door action
		during the door closing process
		But during the door opening process, it will not execute OPEN the door
		action, even though the motor is
		triggered
	Remark :	£ Execute Community function.
		(default)
·	52	Press and hold SET button for about
		6 seconds to enter main menu until
PB2 Port function setting (NO)		"0.—" appears on the display then release the button.
\		Press "+" till "6.—" appears on the
		display.
		• Press SET then appears "6.0" on the
		display



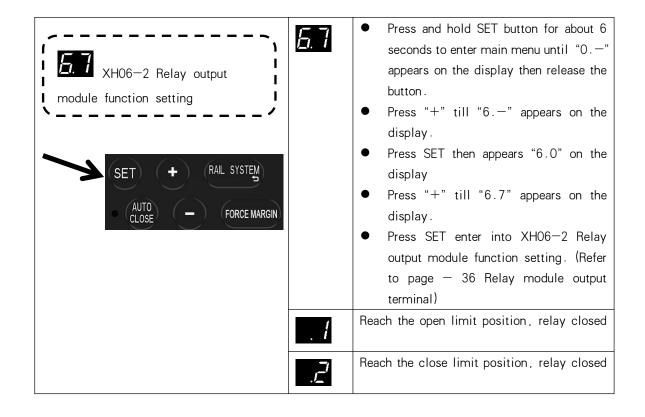


<u> </u>	.3	The warning light is always on when the door is running, and the warning light is off when the door is stop. The warning light flashes when the door is running, and the warning light flashes also when the door is stop, The warning light is always on when the door is running, and the warning light is always on also when the door is stop.
	.5	always on also when the door is stop. The warning light flashes when the door is running, and the warning light is always on when the door is stop.
	.5	The warning light is always on when the door is running, and the warning light flashes also when the door is stop,
	Remark :	means: Warning light flashes when the door is running, and warning light off when the door is stop. (default)
SET + RAIL SYSTEM AUTO CLOSE - FORCE MARGIN	5.5	 Press and hold SET button for about 6 seconds to enter main menu until "0.—" appears on the display then release the button. Press "+" till "6.—" appears on the display. Press SET then appears "6.0" on the display Press "+" till "6.5" appears on the display. Press SET enter into the Buzzer function setting
	. 1	The buzzer sounds when the door opening, but does not sound when the door closing.
	.2	The buzzer sounds when the door closing, but does not sound when the door opening
	Ξ.	The buzzer sounds when the door drive is running, whether it's opening or closing

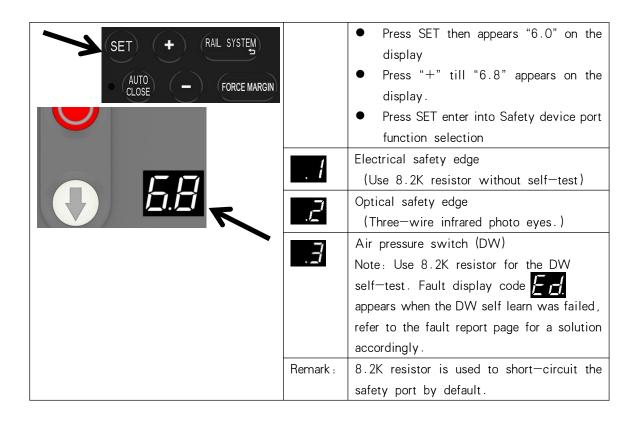
.4	The buzzer turns off.
Remark :	The buzzer turns off. (default)

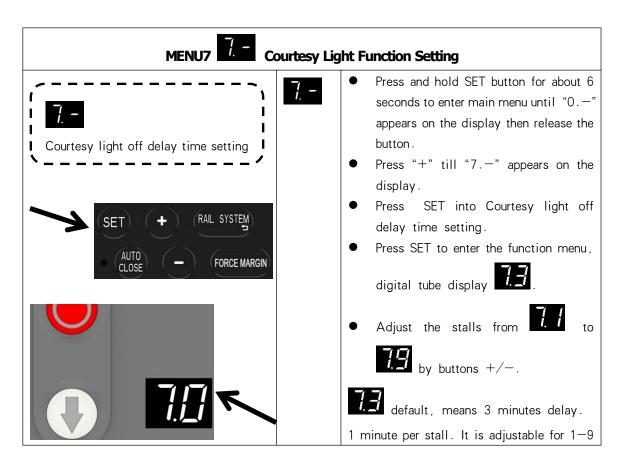


	time setting. Adjust the stalls from to by buttons +/ A=10. means: 10 minutes; Represents 3 minutes
.5	The relay is closed during door drive operation.
.7	When the door drive running, the relay flashes at a frequency of 1HZ (externally extended warning light function)
B	Relay no action
Remark :	default. The customer can set the function according to the specific use situation and choose the appropriate function with the normally open (NO) and normally closed (NC) function of the relay.

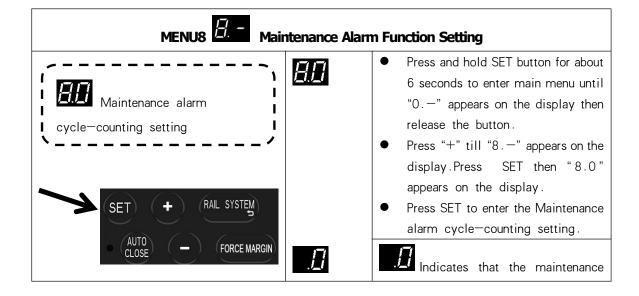


	3	Reach the partial open limit position, relay
	/	closed
	L.J	Before the door drive running, the relay is
		closed first (1—7 seconds time adjustable)
		Press SET to confirm and directly enter the
		time setting. Adjust the stalls from
		to \mathbf{I} by buttons $+/-$.
		default: Represents 3 seconds.
	.5	Relay always closed during the door drive running. After the door drive stops, relay
		will be disconnected after 1-10 minutes
		delay. (Adjustable time, similar to courtesy
		light OFF DELAY function).
		Press SET to confirm and directly enter the
		time setting. Adjust the stalls from
		to by buttons +/ A=10.
		means : 10 minutes ;
		default: Represents 3 minutes
	.Б	The relay is closed during door drive operation.
	7	When the door drive running, the relay
		flashes at a frequency of 1HZ (externally
		extended warning light function)
	<i>.</i> B	Relay no action
	Remark :	default.
		The customer can set the function according
		to the specific application and choose the
		appropriate function with the Normal-Open
		(NO) and Normal—Close (NC) function of the
		relay.
,,	SA	Press and hold SET button for about 6
58		seconds to enter main menu until "0.—"
Safety device port function		appears on the display then release the
I selection		button.
·/		Press "+" till "6.—" appears on the
		display.



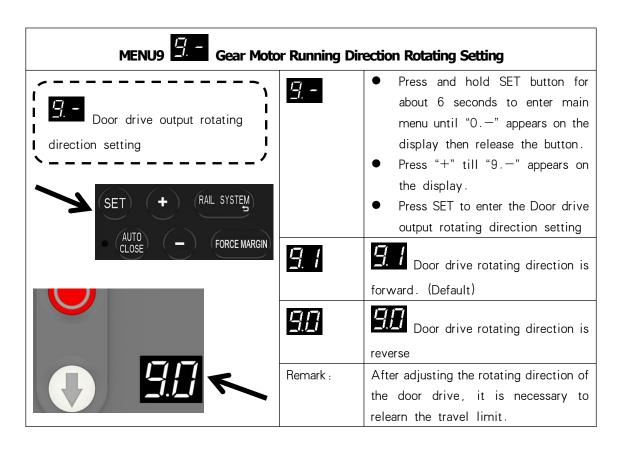


	,
	minutes. Select the delay time of the
	courtesy light, press the SET button to save
	setting, At the same time, enter the warning
	function setting of the courtesy light,
	digital tube display , Adjust the stalls
	from \Box to \Box by buttons $+/-$.
	means the courtesy light operation
	warning function is off.
	to means: The corresponding
	warning $1-9$ second time selection, $1-9$
	second option means flashing before door
	drive starts running.
Remark :	a. After the door drive stops running, the
	courtesy light delay time can be
	adjusted from 1 \sim 9 minutes, the
	default is . means 3 minutes off
	delay.
	b. After the courtesy light warning
	function is turned on, the courtesy light
	will flash for a corresponding time
	before the door drive runs each time,
	and then the door drive will start to
	perform actions.



		alarm function is closed (factory default)
		Press SET to enter the function menu,
		Tress SET to effect the function mend,
		digital displays (factory
		default).
		Adjust the stalls from to
		$m{B}$ then $m{F}$ by buttons $+/-$.
		500 cycles per stall.
		Cycles—calculation method is 500*N,
		N=01—15. A=10; F=15
		e.g.
		means: 1*500=500 cycles;
		means: 2*500=1000 cycles;
		means: 10*500=5000 cycles;
		Emeans: 15*500=7500 cycles
Query the remaining cycles of maintenance alarm	8. 1	 Press and hold SET button for about 6 seconds to enter main menu until "0.—" appears on the display then release the button. Press "+" till "8.—" appears on the display. Press SET then "8.0" appears on the display. Press "+" till "8.1" appears on the display , Press SET to enter the Query the remaining cycles of maintenance alarm
		Press SET to enter the function query,
		the digital will circulated display
		- III III - , then after
		the cumulative loop display 3 times, the
		query display will exit.
	Remark :	a. Running cycles counter will not be
		cleared even after the door drive is

restored to factory settings.
b. Maintenance alarm description
(Running cycles will minus 1
cycle, after the door drive reaching
the close limit position each time)
c. When the maintenance alarm count
shows 0, when the door drive runs
to the open and close limit
positions each time, the courtesy
light will flash quickly, the buzzer
will sound continuously to remind
the customer that the door and the
drive unit need maintenance, and
the digital tube will display fault
EB.
d. After the maintenance of the door
or drive unit is completed, the
maintenance personnel need to
re—enter the menu to set the
maintenance alarm cycles, and the
cycles of maintenance alarms will
restart to count.

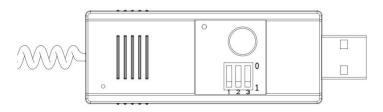


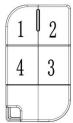
FAULT DISPLAY

Fault Display Code	Fault Description	Fault Correction
	Encoder failure, the encoder cannot write and read data	Replace the encoder Replace the encoder cable
E 1.	No motor motion signal is detected,	Check whether the wiring between the limiter and the control board is loose.
E 2.	The positive and negative poles of the motor wire are reversed	Exchange the positive and negative poles of the motor
E 3.	Motor current is too high	 Choose matching control system and motor Check the door body Replace the high—power door drive
E4.	Door drive overload alarm, current overrun	 The door is stuck or the door is too heavy The door size is too large Check the door body Replace the high—power door drive
E 5.	Optical safety edge sensor kit fault	 8.2K resistor is open circuit, missing installation The conductive tape edge is aging or broken
E 6.	Infrared/infrared light curtain function port is triggered	 Check whether the infrared function is turned on Turn on the infrared function to detect whether the infrared device is blocked Check whether the NO/NC wiring of the infrared device output port is wrong. The NO port is connected by default, and the port is closed after the shot
E 7.	SD (Pass door/wicket door) switch is triggered	Check whether the SD function port of the secure port is not connected
EB.	The maintenance alarm cycle reaches	Notify maintenance personnel to maintain the door and drive

E 9.	Safety port three—wire infrared fault Emergency chain manual	 The three—wire infrared electric photo eye is blocked Three—wire infrared electric photo eye failure Is the three—wire infrared electric photo eye a product of our company? Check if the manual release
	release port fault	port have short circuits 2. Manual release is not reset 3. Manual release switch failed
Eb.	Communication failure between door drive and control box.	 Re-plug the RJ45 interface The door drive needs to be powered off and restarted Replace the 8P network cable.
EE.	Short learning travel limit	 Re-learn the travel limit Encoder position data failure
Ed.	Air pressure switch (DW) self—test failure	 Check the NC air switch (DW) device performance. Check the air leak possibility from installation.
EE.	During the self—learning of the travel limit, if the rotor is blocked or the encoder is faulty, the buzzer will sound once and display "EE."	 Re-learn the limit position. Check the encoder connection Replace the encoder
EF.	The emergency stop switch function is triggered.	 Check whether the emergency stop switch is pressed Whether the emergency stop switch uses a normally closed (NC) switch Whether the external port STOP short—circuit connection is loose

TX/RX FUNCTION MODULE DESCRIPTION (optional)





- 1. The external decoding module uses the standard HCS301 format open code, the frequency 433MHZ/868MHZ is optional,
 - 2. Transmitter 4 button design; Transmitter key value 1, 8, 2, 4
 - 3. The transmitter module and control box use USB standard interface to connect
- 4. Short press the LEARN button on the module, the LED will light up, press the remote control to learn the code. Long press the learn button on the module for 6 seconds, LED will flash 5secondsquickly to clear the code
- 5. The default maximum number of transmitter storage is 50codes, and if 50 codes is already learned, the 51stcodewill automatically cover the 1stcode.

6. Transmitter module function:

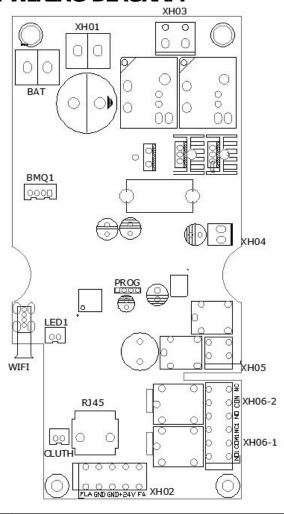
- a. Standard function: Single key cycle
- b. Ignore the key value function, all keys are valid: OPEN-STOP-CLOSE command order each cycle. As long as learning a key, the others are valid
- c. Multiple function key 1:
 - 1st button execute OPEN—STOP—CLOSE command order each cycle;
 - 2nd button execute PARTIAL OPEN command order;
 - 3rd button execute courtesy light ON/OFF command order;
 - 4th button execute remote LOCK command order;
- d. Multiple function key 2:
 - 1st button execute OPEN the door command order;
 - 2nd button execute STOP command order;
 - 3rd button execute CLOSE the door command order;
 - 4th button execute remote LOCK command order;
- e. Multiple function key 3:
 - 1st button execute OPEN the door command order;
 - 2nd button execute STOP command order;
 - 3rd button execute CLOSE the door command order;
 - 4th button execute "CF" command order; ("CF"command order means press
 the 4th button, the door will OPEN directly without STOP action, execute
 the REVERSE action during door closing)
- 7. Adjust the transmitter function through the three-circuit DIP switch

Important Note:

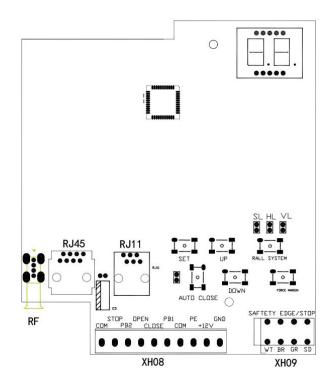
When using multiple function keys, you must use our company's standard transmitter. The transmitter provided by the customer has inconsistent key values, which may cause function failure.

S1	S2	S3	Function Description
1	1	1	Standard function (Factory default)
0	1	1	Ignore the key value function
1	0	1	Multiple function key 1
1	1	0	Multiple function key 2
0	0	1	Multiple function key 3

FUNCTION WIRING DIAGRAM

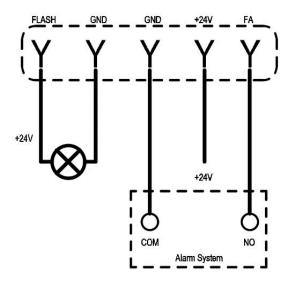


XH01	AC24V Power input terminal
XH02	Warning light output port, DC24V output terminal/FA Fire alarm port
XH03	Gear motor power supply terminal
XH04	DC24V Input terminal
XH05	Electronic lock terminal
XH06-1/XH06-2	Relay module output terminal
BAT	Lead—acid battery input terminal
RJ45	Control box terminal
WIFI	WIFI control terminal
LED1	Courtesy light terminal
CLUTH	Rear clutch protection terminal



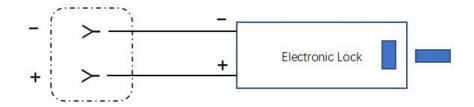
XH08	External function terminal
XH09	Safety terminal
RJ45	Control box and power head connection
RJ11	External wired wall control connection
RF	Transmitter & Receiver module terminal

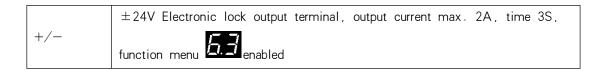
XH02 Door drive output terminal



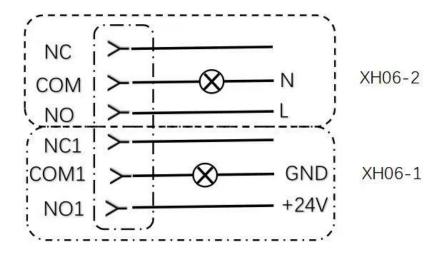
	DC24V warning light output terminal, drive MAX current 0.2A, function
FLASH/GND	menu 5.4 , define function status
+24V/GND	DC 24V/ MAX 0.2A
	The terminal of the fire alarm device (Default NO) .
	Remark: The door will be opened to the opening limit position
GND/FA	automatically once the FA terminal is triggered (No matter what status the
	door is) and the door cannot execute any other action commands until the
	FA terminal returns to the NO (Normal open) state.

XH05 Electronic lock output terminal





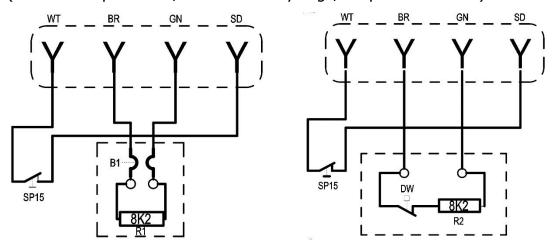
XH06 Relay module output terminal



NC/COM/NO	XH06—2 Relay output module, max 100w.
	See the function menu 5.7 for details
	XH06—1 Relay output module, max 100w.
NC1/COM1/NO1	See the function menu 5.5 for details

XH09 Safety terminal

(Wicket door protection/ Electrical safety edge/ Air pressure switch)



WT	GND
BR	+12V
GN	Signal
SP15/SD	Wicket door/ Pass door protection device terminal
DW (Air pressure switch)	Activate function menu to enable (DW) air pressure switch Remark: Only NC (Normal close) contact air pressure switch

Note1: SP15 is disconnected, the door drive stops, and all control functions are invalid. Note2: The Electrical safety edge is short—circuited during the closing process, and the door drive will automatic reverse.

DW (Air pressure switch) self-test instruction

• Correctly installed the Air Pressure Switch and then enter the menu to enable the DW function.

(DW self—test successfully)

Short press the "DOWN" button to close the door. The air pressure switch self—test is performed automatically when the door is closed to the closing limit position. If the air pressure switch (DW) is triggered during the door closing process, the door will be automatic reverse, which means the DW self—test is successfully.

(DW self-test failed)

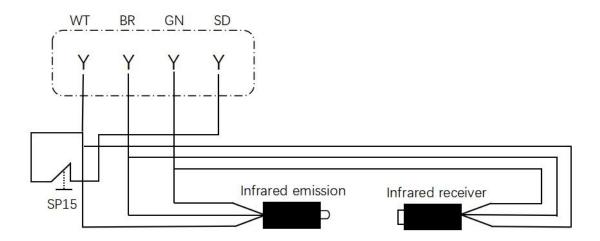
Short press the "DOWN" button to close the door. The air pressure switch self—test is performed automatically when the door is closed to the closing limit position. If the air pressure switch

(DW) is NOT triggered during the door closing process, and the display shows faulty which means the DW self—test is failed. Then the dead man mode will be enabled automatically during the next door closing operation. Check the air switch device (Refer to faulty description page) to fix the issues and repeat the above self—test operation until it's succeed.

Remark: Fine adjust the pre-close limit position for DW, refer to the menu

XH09 Safety terminal

(Optical safety edge/ three-wire infrared photo eyes/wicket door protection)



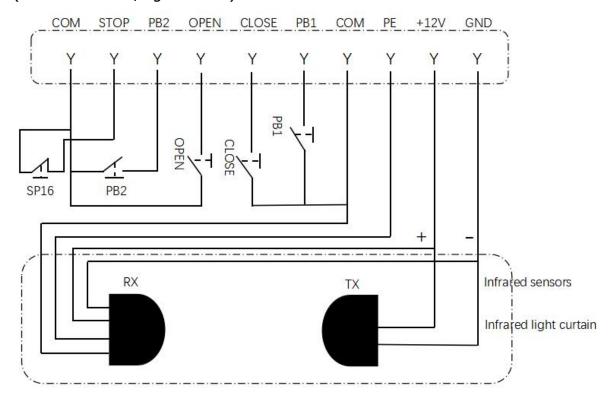
WT	GND
BR	+12V
GN	Signal
Optical safety edge	Enter the function menu ED / C to enable the optical safety edge system/Three—wire infrared photo eyes
SP15/SD	Wicket door/ Pass door protection device terminal

Note 1: SP15 is disconnected, the motor stops, and all control functions are invalid.

Note 2: The door will automatically reverse once the Optical safety edge system is triggered during the door's closing process.

XH08 Safety terminal

(Infrared sensors/ light curtain)



STOP	Emergency stop normally closed (NC) port, after disconnection, the door drive executes long press operation mode
PB2	Door drive operation control terminal, see details for specific functions 5 Function menu normally open (NO) port
OPEN	External door opening terminal normally open (NO) port
CLOSE	External door closing terminal normally open (NO) port
PB1	Door drive operation control terminal, see details for specific functions 5 Function menu normally open (NO) port
PE	Infrared sensors/ Built—in infrared sensors/ Light curtain, Details in function menu.
12V/GND	DC12V Output power, max 0.2A

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