

BASE 50

Industrial Door Drive

Control System

Instructions And User Guide

Version 1.6

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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

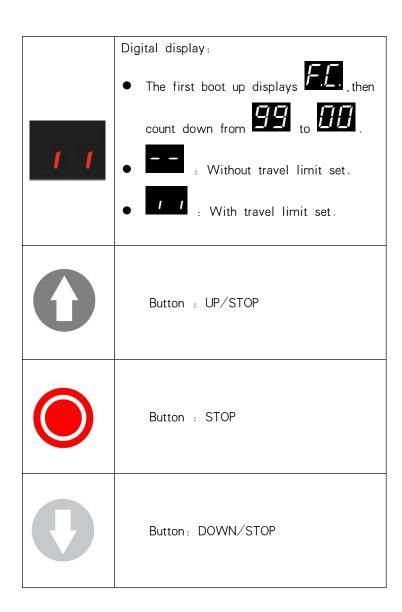
Only use original spare parts.

TECHNICAL DATA

Model	BASE 50
Max. output torque (Nm)	50
Rated output torque (Nm)	35
Output speed (rpm)	24-32
Output shaft/hollow shaft (mm)	ф 25.4
Static holding torque (Nm)	400
Door area (m²)	≤22
Input voltage (V)	110-127/220-240 & 380-420
Motor power (W)	450
Control system	24V DC
Thermal protection temperature (° C)	105
Max. cycles per hour (Cycle)	20
Class of protection	IP 54
Limit switch range (maximum revolutions of output shaft / hollow shaft)	15
Temperature range (° C)	-20~+40 (+60)

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 Let

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
+ / -	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"
THAIL STOTEM	J= -1
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
	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.

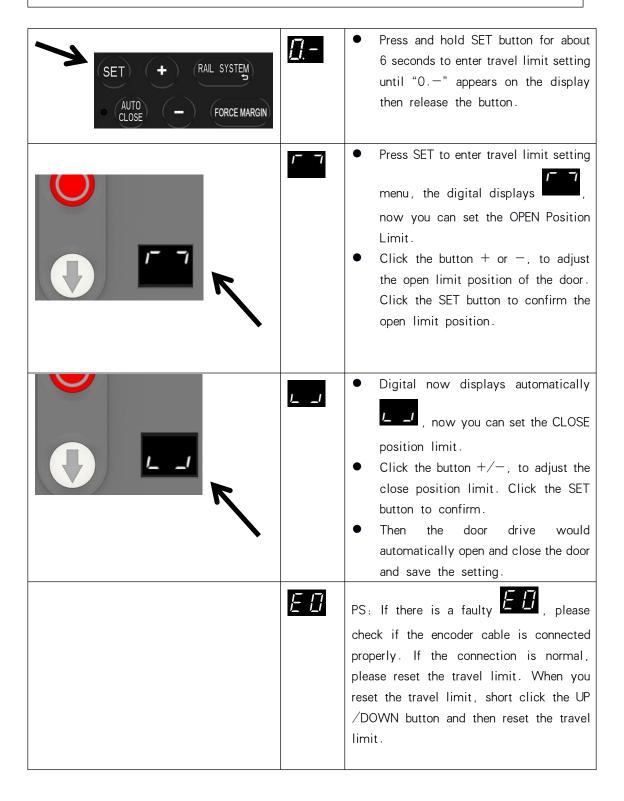
b. Active or change any stand alone function, refer to the below "FUNCTION TABLE MENU".

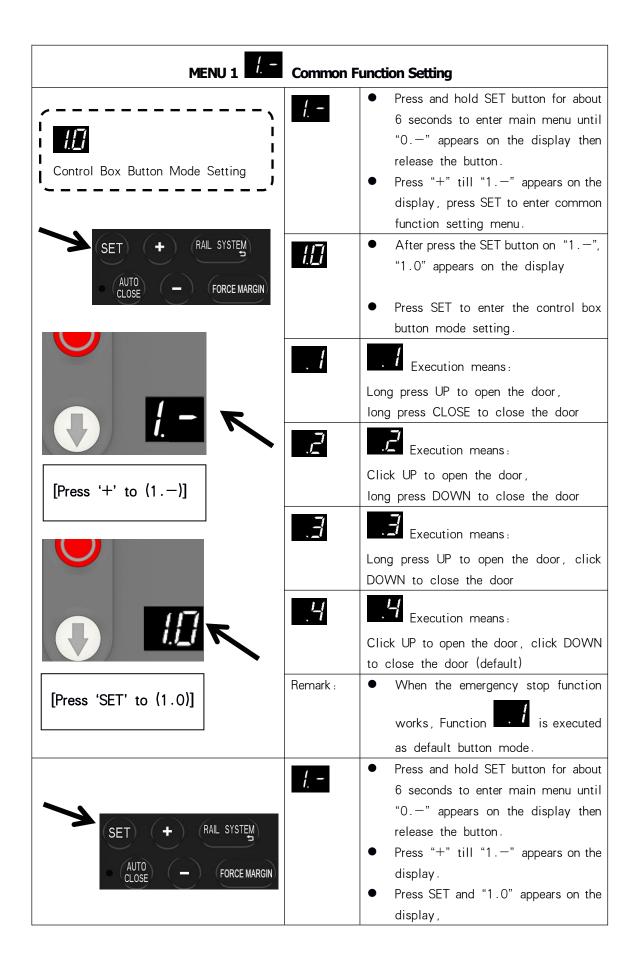
FUNCTION TABLE MENU ITEMS

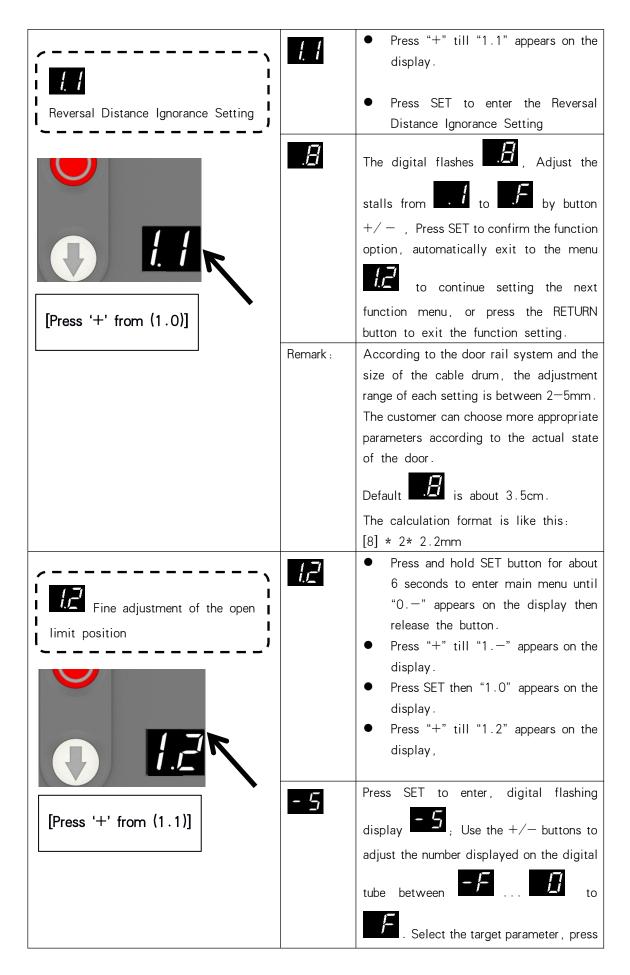
MENU	Function Table Menu	Status Indications
0	Travel Limit Setting	[]
1	Common Function Setting	<i>f.</i> –
2	Operating Parameter Setting	<u> </u>
3	Soft Stop (during—operation) Function Setting	<u> </u>
4	AUTO CLOSE Time & Condition Setting	<i>l-</i> {
5	Infrared Beam & Light Curtain Function	5
6	Terminals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

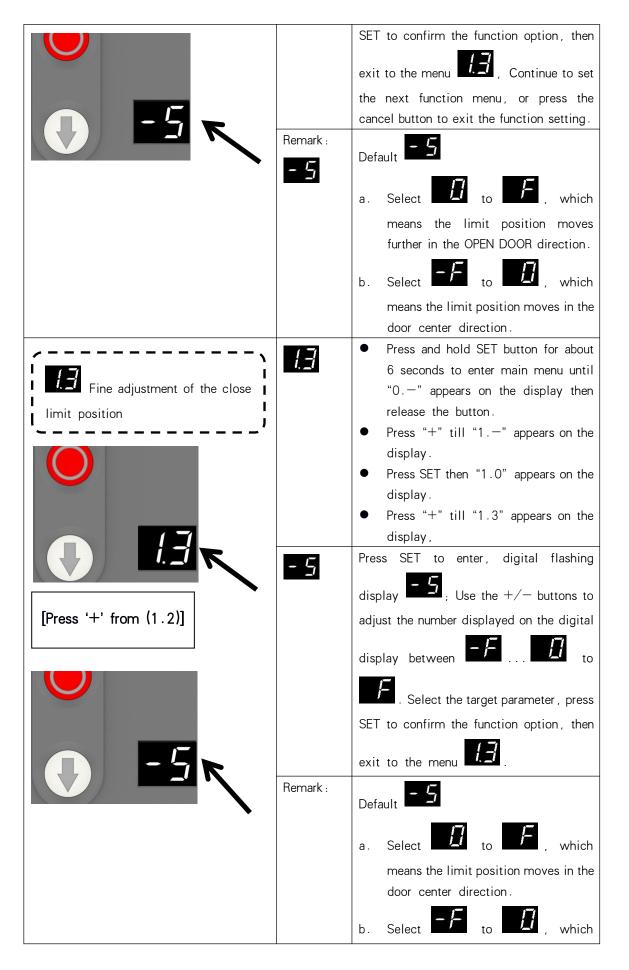
FUNCTION MENU DESCRIPTION

MENU 0 Travel Limit Setting

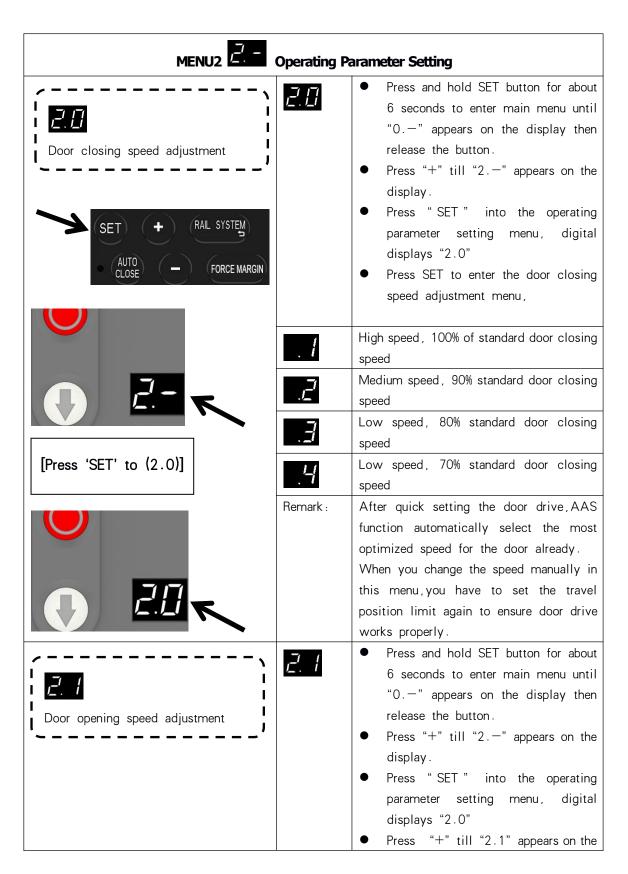








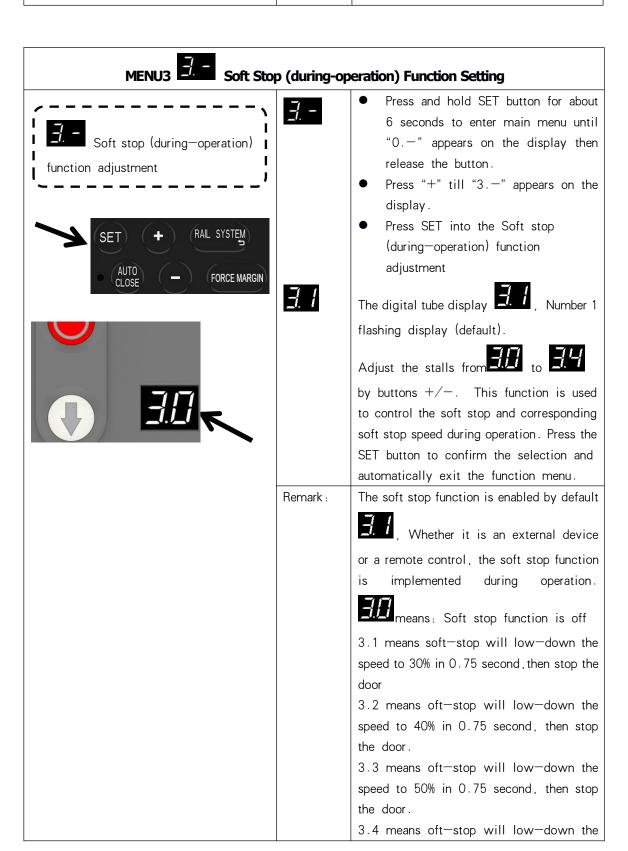
means the limit position moves in the CLOSE DOOR direction.



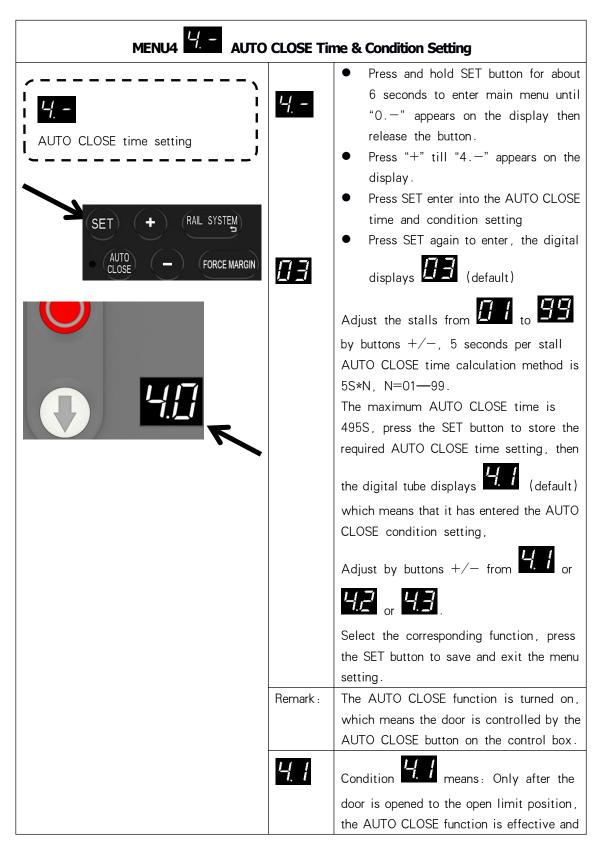
		display
		displayPress SET to enter the door opening
		speed adjustment menu,
		High speed, 100% of standard door opening
	. <i>t</i>	speed
'		High speed, 90% of standard door opening
	.⊏′	speed
		Medium speed, 80% of standard door
	. <u>:</u>	opening speed
	1.1	Low speed, 70% of standard door opening
	.~;	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.
/	<i>2.2</i>	Press and hold SET button for about
	L. L	6 seconds to enter main menu until
		"0.—" appears on the display then
Soft closing distance adjustment		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
2.2		display
		Press SET to enter the Soft closing
		distance adjustment,
	. 1	Soft closing distance
		SL:10CM, HL:20CM, VL:25CM
	رِّي.	Soft closing distance SL:20CM, HL:30CM, VL:40CM
	. ={	Soft closing distance SL:25CM, HL:45CM, VL:50CM
		Soft closing distance
	.4	SL:40CM, HL:55CM, VL:60CM
	Remark :	The above soft closing distance is
	HOHIAIN:	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
		The fair system (AAS) will automatically

match the optimized soft closing distance.

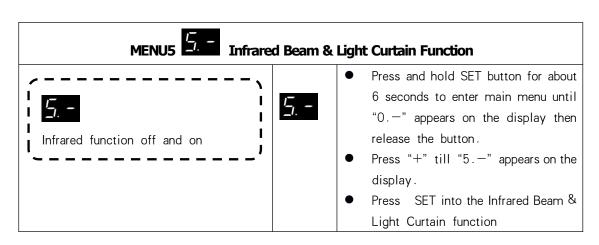
After the customer changes the default distance, the previous travel limit will be lost and needs to be re-learned.

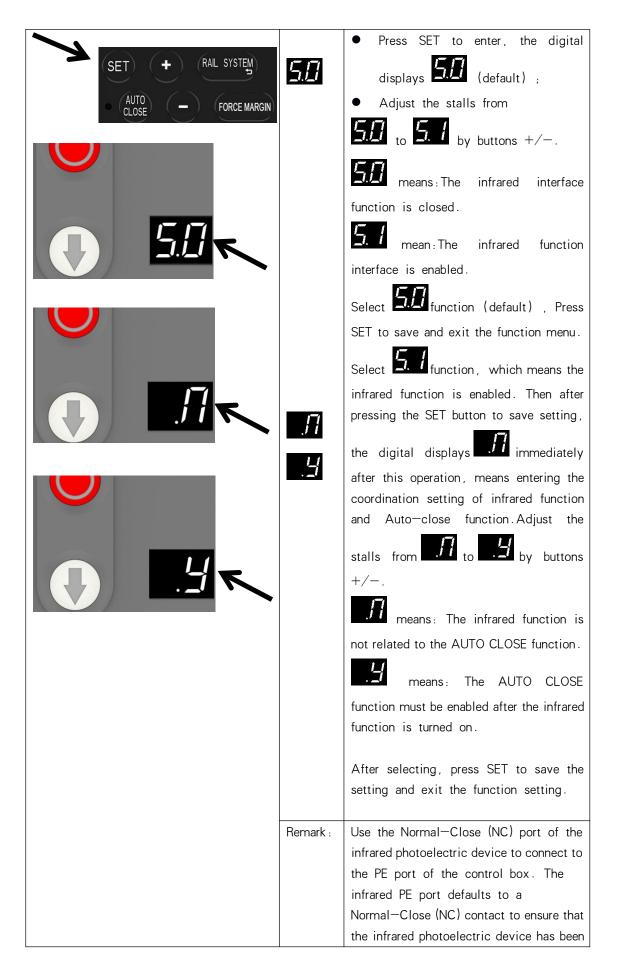


speed to 60% in 0.75 second, then stop the door.



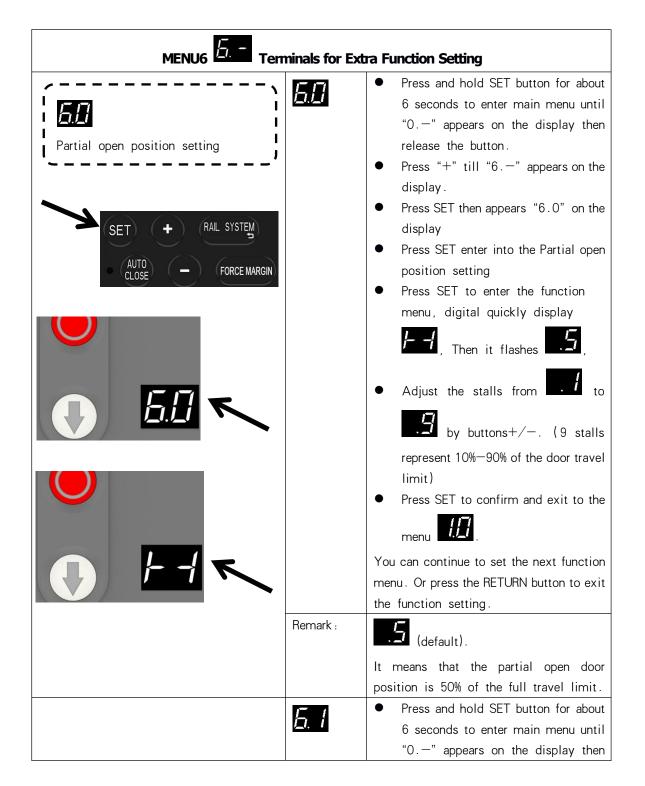
	starts timing.
	Ç
	F975-7
'-i. <u>-</u> -'	Condition means: After the door
	stops at any position when opening, the
	AUTO CLOSE function is effective and
	starts timing.
43	Condition His means: No matter where
	the door is open, as long as it is not at
	the close limit position, it will
	automatically 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
	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
	,

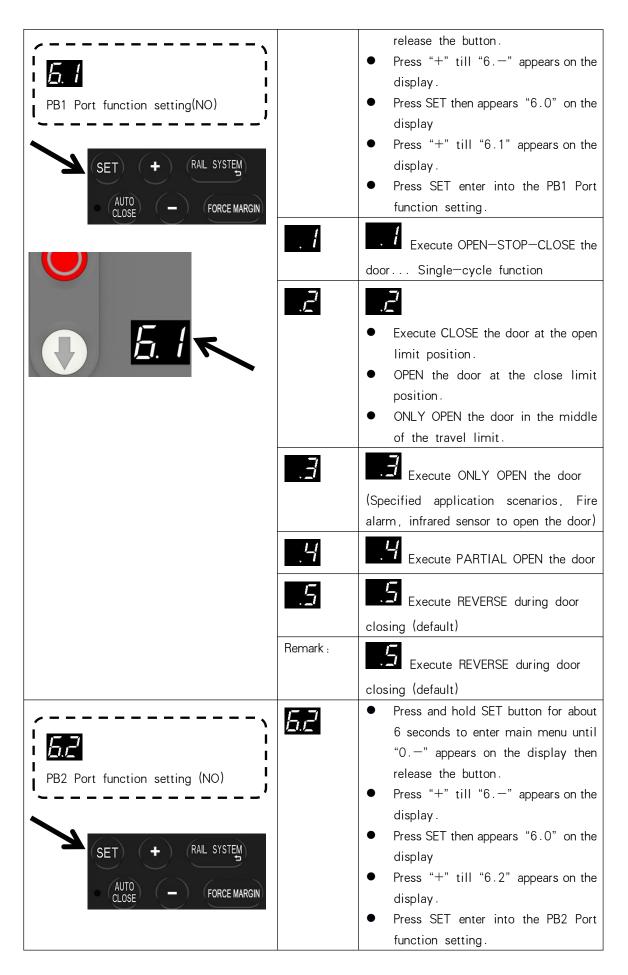




installed correctly. If the infrared photoelectric device is not installed, this function must be disabled, otherwise the drive unit cannot execute close the door.

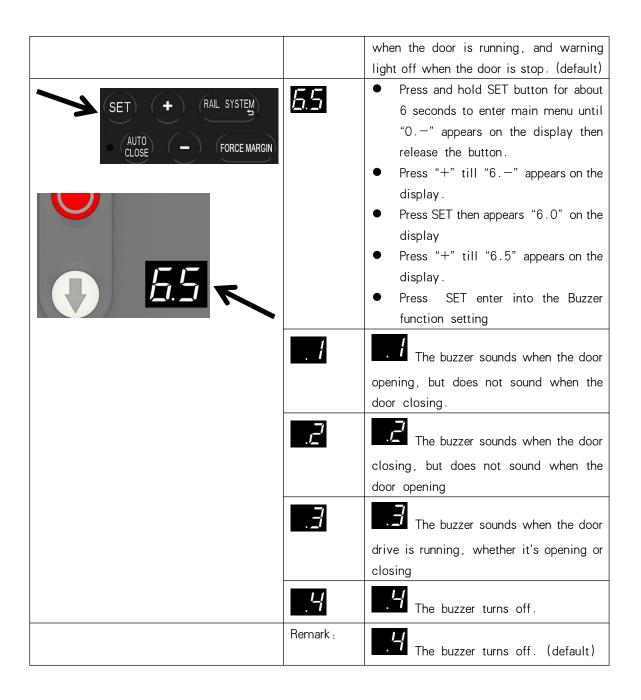
And digital displays faulty

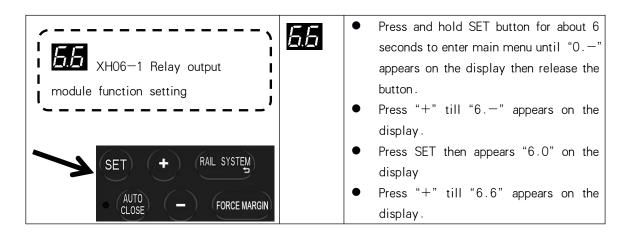




		T
	. 1	Execute OPEN—STOP—CLOSE the
		doorSingle—cycle function
		5 /
	. <u>C</u>	. <u>C</u>
		Execute CLOSE the door at the open
		limit position
		OPEN the door at the close limit
		positionONLY OPEN the door in the middle
		of the travel limit
	<u>:</u>	Execute ONLY OPEN the door
		(Specified application scenarios, Fire
		alarm, infrared sensor to open the door)
	4	Execute PARTIAL OPEN the door
		Execute FANTIAL OFEN the door
	.5	.5 Execute REVERSE during door
		closing (default)
	Remark :	
		Execute REVERSE during door
		closing (default)
/	<i>53</i>	Press and hold SET button for about
! 68	<u> </u>	6 seconds to enter main menu until
		"0.—" appears on the display then release the button.
Electronic lock function		• Press "+" till "6" appears on the
		display.
SET + (RAIL SYSTEM)		• Press SET then appears "6.0" on the
SET T		display
AUTO FORCE MARGIN		• Press "+" till "6.3" appears on the
CLOSE		display.
		Press SET enter into the Electronic Lock function posttion
		lock function setting.
		Electronic lock function is off
		(default)
		1
	. 1	
		Electronic lock function is enabled:
		1 second after the door drive runs to the
		close limit position, the electronic lock is powered on, the bolt is pushed out,
1	1	is powered on, the bolt is pushed out,

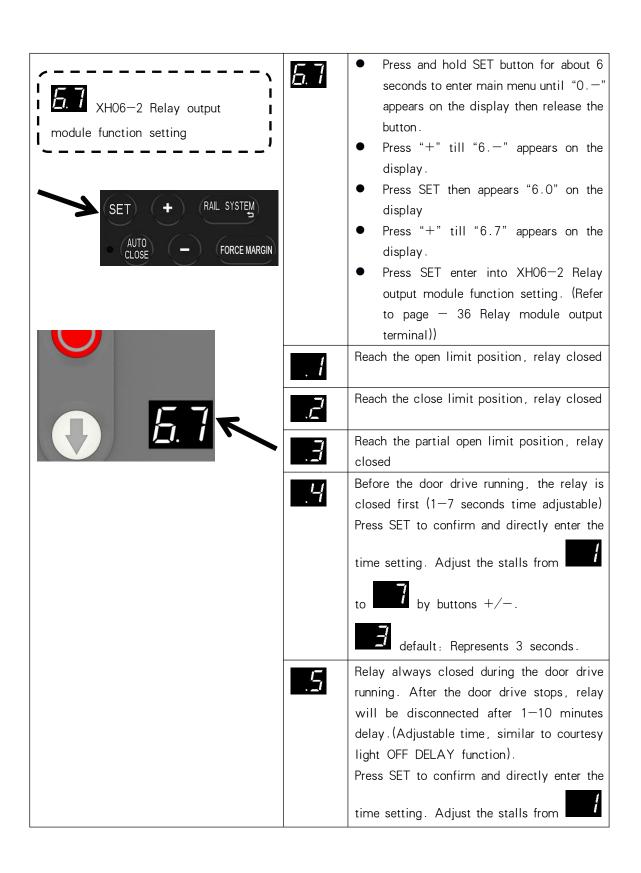
		and after 1.5 seconds electronic lock
		stops supplying power.
		After the door drive receives the door
		opening command at the close limit
		position, the electronic lock will be
		powered on firstly to retract the bolt,
		then the door starts to run after 1.5
		seconds, and the electronic lock stops
		power supply after the door runs for 1
		second.
	Remark :	The default electronic lock function is
		off.
		Press and hold SET button for about
·	⁄⊒.'~i	6 seconds to enter main menu until
TI A CILIZATI I I I I I I		"O.—" appears on the display then
FLASH/Warning light		release the button.
output port setting		• Press "+" till "6" appears on the
~		display.
		 Press SET then appears "6.0" on the
		display
	_	• Press "+" till "6.4" appears on the
SET + RAIL SYSTEM		display.
2		Press SET enter into the FLASH/
AUTO CLOSE - FORCE MARGIN		Warning light output port setting.
CLOSE FORCE MARGIN	4	Warning light flashes when the door is
	• •	running, and warning light off when the
		door is stop. (default)
	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,
	1.1	The warning light is always on when the
	.7	door is running, and the warning light is
		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.
		The warning light is always on when the
	\Box	door is running, and the warning light
		flashes also when the door is stop,
	Remark :	ridanes also writer the door is stop,
	I VEITIGIK:	means: Warning light flashes



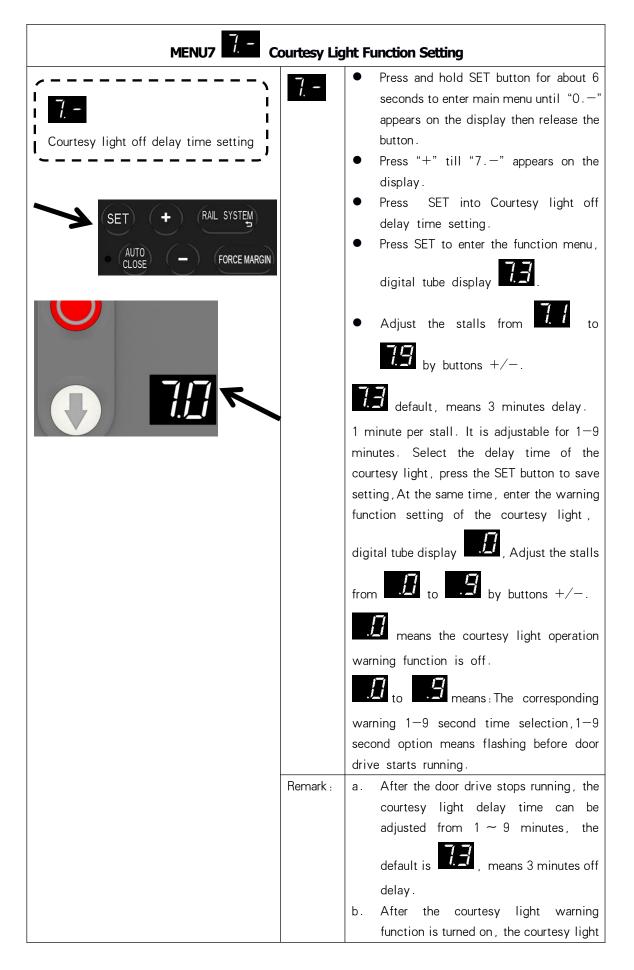


		A D OFT
		● Press SET enter into XH06—1 Relay
		output module function setting. (Refer
		to page — 36 Relay module output
		terminal)
6 5 5 5	. 1	Reach the open limit position, relay closed
	آج.	Reach the close limit position, relay closed
	7	Reach the partial open limit position, relay
	1	closed
		Before the door drive running, the relay is
	. 1	closed first (1—7 seconds time adjustable)
		Press SET to confirm and directly enter the
		time setting. Adjust the stalls from
		to 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;
		Represents 3 minutes
		The relay is closed during door drive
	.₽	operation.
	7	When the door drive running, the relay
	. <i>i</i>	flashes at a frequency of 1HZ (externally
		extended warning light function)
	.8	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

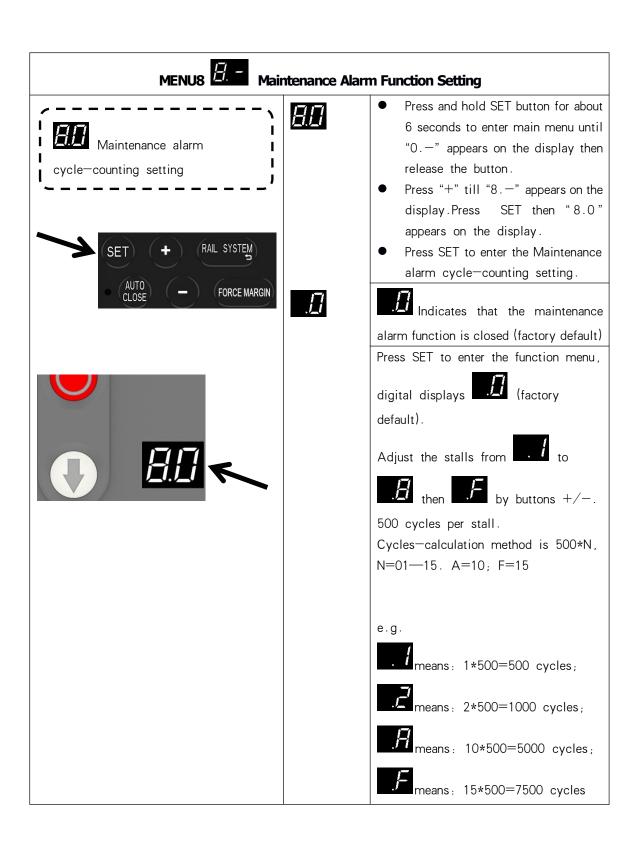
(NO) and normally closed (NC) function of the relay.



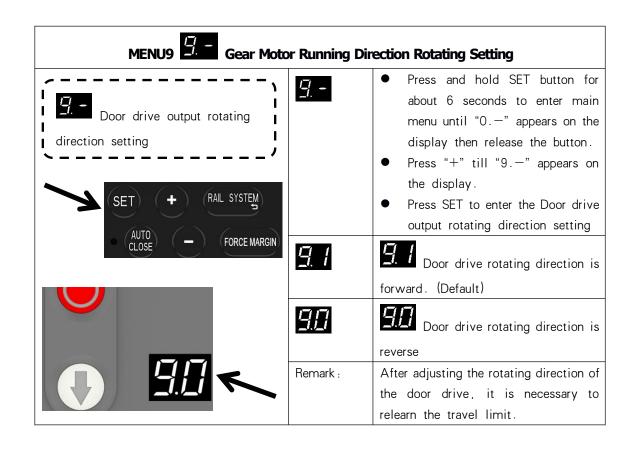
		to \nearrow by buttons $+/-$. A=10.
		means: 10 minutes;
		default: Represents 3 minutes
	<i>i</i> -	The relay is closed during door drive
	. <u>[</u>	operation.
	7	When the door drive running, the relay
	. 1	flashes at a frequency of 1HZ (externally
		extended warning light function)
	B	Relay no action
	Remark :	default.
		The customer can set the function according
		to the specific application and choose the
		appropriate function with the Normal-Open
		(NO) and Normal—Close (NC) function of the
		relay.
/\	58	Press and hold SET button for about 6
		seconds to enter main menu until "0"
		appears on the display then release the
Safety device port function selection		button. ● Press "+" till "6" appears on the
		display.
SET + RAIL SYSTEM		Press SET then appears "6.0" on the
		display
AUTO FORCE MARGIN		• Press "+" till "6.8" appears on the
92302		display .
		Press SET enter into Safety device port
		function selection
	1	Use optical edge sensor kit. Or 8.2K resistor
		in series with the rope switch.
	7	Use three—wire infrared photo eyes.
	Remark :	8.2K resistor is used to short-circuit the
		safety port by default.



will flash for a corresponding time before the door drive runs each time, and then the door drive will start to perform actions.



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 the digital will circulated display the digital will circulated display the digital 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
		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.

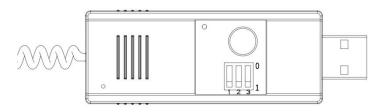


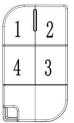
FAULT DISPLAY

Fault Display Code	Fault Description	Fault Correction	
	Encoder failure, the encoder cannot write and read data	 Replace the er Replace the er 	
E 1.	No motor motion signal is detected,	 Check whether between the li control board 	miter and the
E 2.	The positive and negative poles of the motor wire are reversed	Exchange the poles negative poles	
E 3.	Motor current is too high	 Choose matching system and multiple Check the door Replace the higher drive 	otor or body
E4.	Door drive overload alarm, current overrun	 The door is studis too heavy The door size Check the doo Replace the higher drive 	is too large r body
E 5.	Optical safety edge sensor kit fault	8.2K resistor is missing install The conductive aging or broke	ation e tape edge is
E 6.	Infrared/infrared light curtain function port is triggered	 Check whether function is turned to the into detect whether device is bloch. Check whether wiring of the into output port is connect and the port into turned the shot. 	ned on frared function her the infrared ked the NO/NC infrared device vrong. The NO ed by default,
E 7.	SD (Pass door/wicket door) switch is triggered	 Check whether function port of port is not co 	of the secure
EB.	The maintenance alarm cycle reaches	Notify mainten to maintain the	

ed
locked
lectric
ared
roduct
elease
:s
reset
failed
erface
to be
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sition.
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d
y stop
y .
port

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:

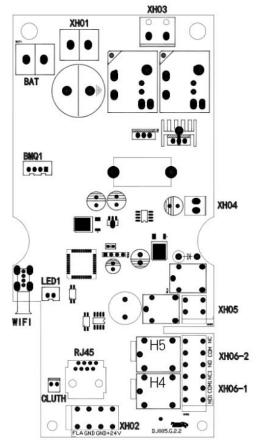
- a. Standard function: Single key cycle
- b. Ignore the key value function, all keys are valid: OPEN-STOP-CLOSE command order each cycle. As long as learning a key, the others are valid
- c. Multiple function key 1:
 - 1st button execute OPEN—STOP—CLOSE command order each cycle;
 - 2nd button execute 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:

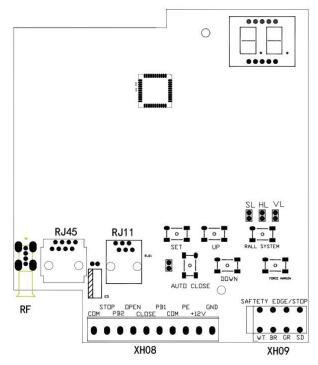
When using multiple function keys, you must use our company's standard transmitter. The transmitter provided by the customer has inconsistent key values, which may cause function failure.

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

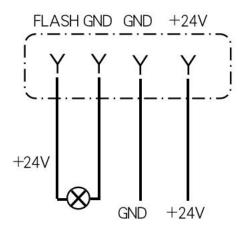


XH01	AC24V Power input terminal
XH02	Warning light output port, DC24V output terminal
XH03	Gear motor power supply terminal
XH04	DC24V Input terminal
XH05	Electronic lock terminal
XH06-1/XH06-2	Relay module output terminal
BAT	Lead—acid battery input terminal
RJ45	Control box terminal
WIFI	WIFI control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



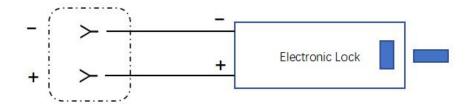
XH08	External function terminal
XH09	Safety terminal
RJ45	Control box and power head connection
RJ11	External three buttons wall control connection
RF	Transmitter receiver module terminal

XH02 Door drive output terminal



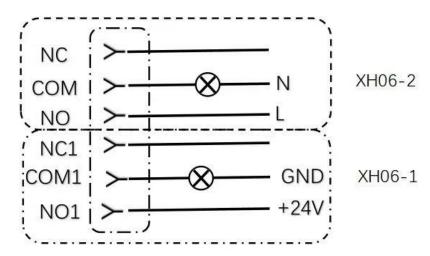
	DC24V warning light output terminal, drive MAX current 0.2A, function
FLASH/GND	menu 5.4 , define function status
+24V/GND	DC 24V/ MAX 0.2A

XH05 Electronic lock output terminal



 \pm 24V Electronic lock output terminal, output current max. 2A, time 3S, function menu **5.3** enabled

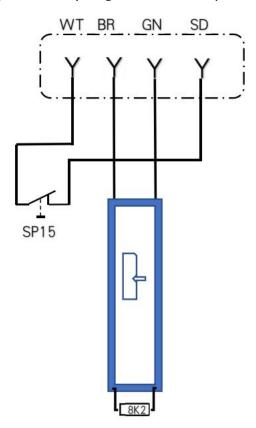
XH06 Relay module output terminal



	XH06—2 Relay output module, max 100w.
NC/COM/NO	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

(optical safety edge/wicket door protection)

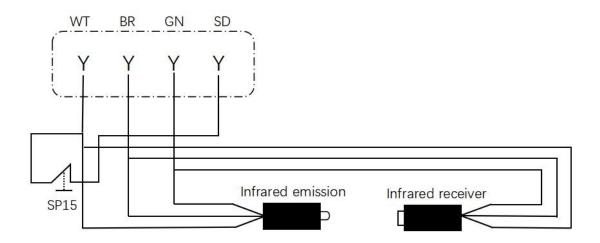


WT	GND
BR	+12V
GN	Signal
SP15/SD	Safety contact , wicket door slackline protection

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

XH09 Safety terminal

(three-wire infrared sensors/wicket door protection)

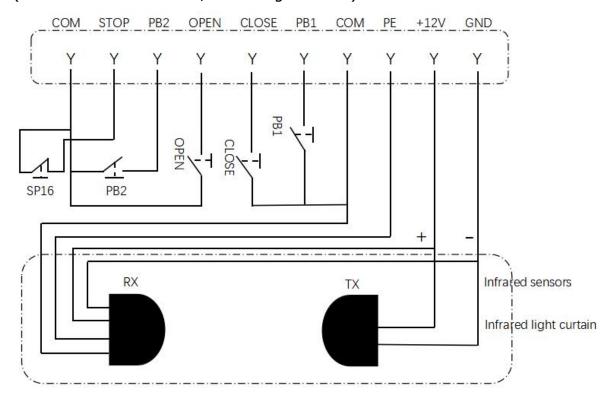


WT	GND
BR	+12V
GN	Signal
Three-line	Enable function menu 55 / 52 Enable three—wire infrared sensor port
infrared	Enable function menu Enable three—wire infrared sensor port
sensors	(use our standard infrared sensors)
SP15/SD	Safety contact , wicket door slackline protection

Note: SP15 is disconnected, the motor stops, and all control functions are invalid. In the closing process, the three—wire infrared sensors are blocked during the closing process, and the door drive automatic reverse.

XH08 Safety terminal

(four-wire infrared sensors/infrared 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	Four-wire infrared sensors, infrared light curtain, see details Function enable menu
12V/GND	DC12V Output power, max 0.2A

Date Version: 17/06/2021

Declaration of Incorporation

pursuant to Machinery Directive 2006/42/EC for a partly completed machine Appendix II Part B

Declaration of conformity

in terms of EMC Directive 2014/30/EU

We. the

Wuxi Force Technology Co., Ltd

Address: Building H, Plainvim International Industrial Park, Wanquan Road, Wuxi, 214000 Jiangsu, China

hereby declare that the following products are conform with the above EC Guideline and are only intended for installation in door equipment.

BASE 35, BASE 50, BASE 70

Standards applied

EN 12453 article 5.3.2

Industrial, commercial and garage doors and gates - Safety in use of power operated doors -Requirements

EN 60335-1

Household and similar electrical appliances - Safety - Part 1: General requirements

EN 60335-2-103

Household and similar electrical appliance - Safety- Part 2 -103: particular requirements for drives for gates, doors and windows.

EN 61000-6-3

Electromagnetic compatibility (EMC) Part 6-3 Generic standards – Emission standard for residential, commercial and light-industrial environments

EN 61000-6-2

Electromagnetic compatibility (EMC) Part 6-2 Generic standards – Immunity standard for industrial environments

Incomplete machines within the meaning of the EC Directive 2006/42/EC shall only be intended to be integrated into other machines (or into other incomplete machines/systems) or to be assembled with them to form a complete machine within the sense of the Directive. Therefore, this product cannot be commissioned before it is determined that the entire machine/system to which it was integrated shall comply with the provisions of the Machinery Directive indicated above.

Date: 17-06-2021 Jevons Liang

General Manager

Signature