

Automatic Sliding Door Operator

Installation and operating instructions

ES90 Easy/ES200 Easy

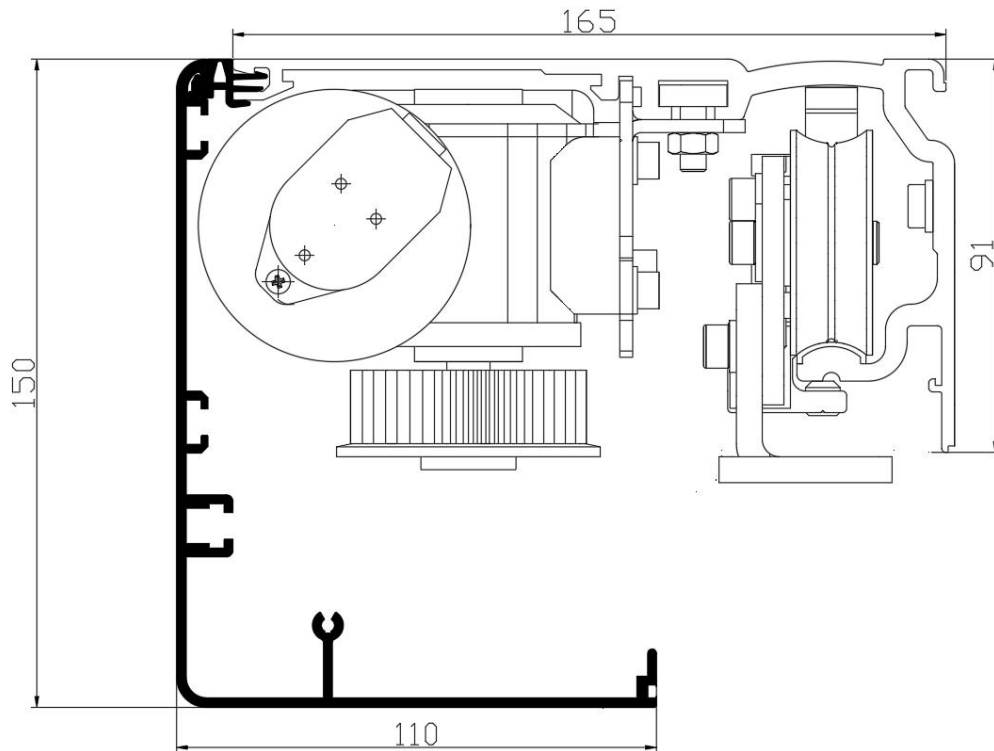


2023.11

Automatic door installation instructions

ES90 Easy/ES200 Easy

<1> Engine box size

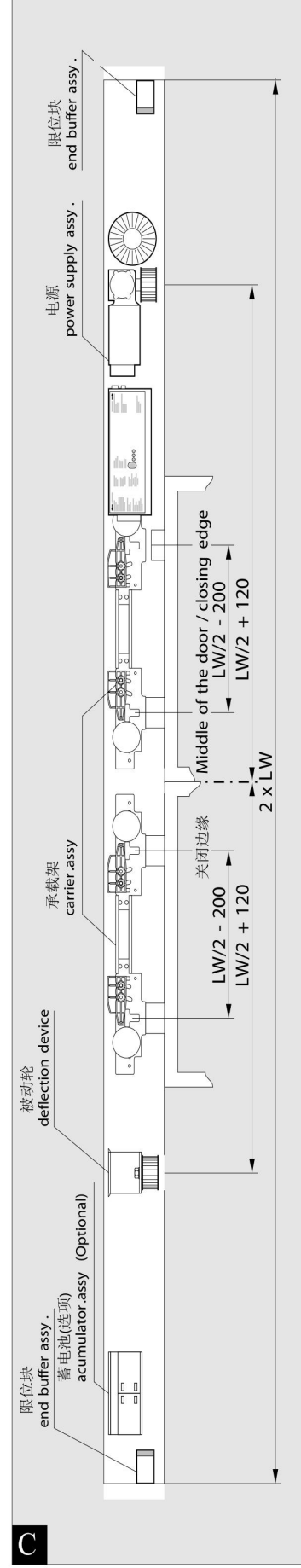
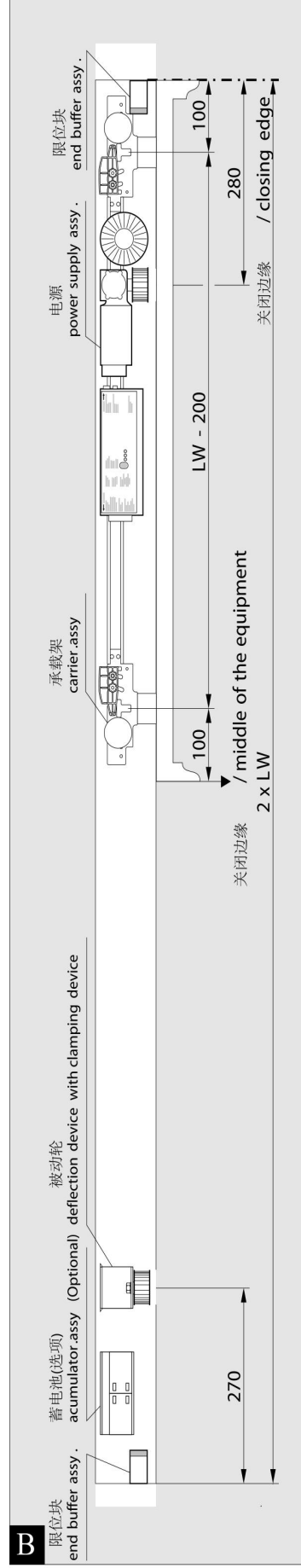
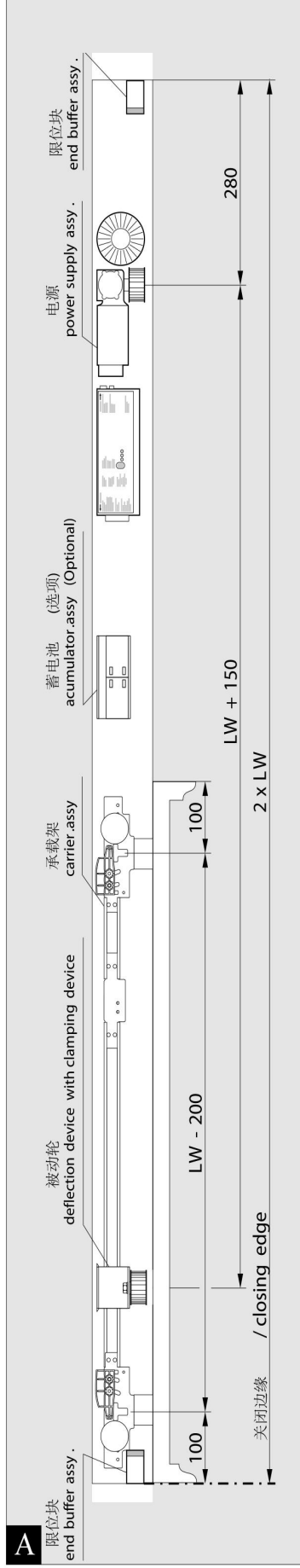


<2> Engine box installation

1. First check the horizontality and verticality of the load-bearing steel beam to ensure an error of 1/1000;
2. When installing the engine box, please start from both sides of the engine box with an even spacing of 400mm-500mm or less.
Install fixing screws;
3. Clean the engine box from impurities.

<3> Installation location of motor and various components

1. First determine the door opening width and engine box length;
2. The position of the motor, the position of the driven wheel, the position of the hanging parts and other accessories are as shown in the figure below.



<4> Installation of hanging parts

1. There is no slope horizontally or vertically, and the load on both wheels is even.
2. The gap between the top wheel (anti-shedding wheel) and the top of the chassis is 0.5-1mm.

<5> Basic requirements

1. The driving device has been completely installed;
2. Connect the protective ground;
3. The infrared safety light is connected properly (if there is no safety light, short-circuit the anti-pinch signal port);
4. Install and connect the program control switch, pulse generator, electric lock and other components;

5. The limit stop is adjusted as follows:

<1> When the two door leaves are opened to the maximum, they should hit the limit stop installed on the left or right side of the guide rail;

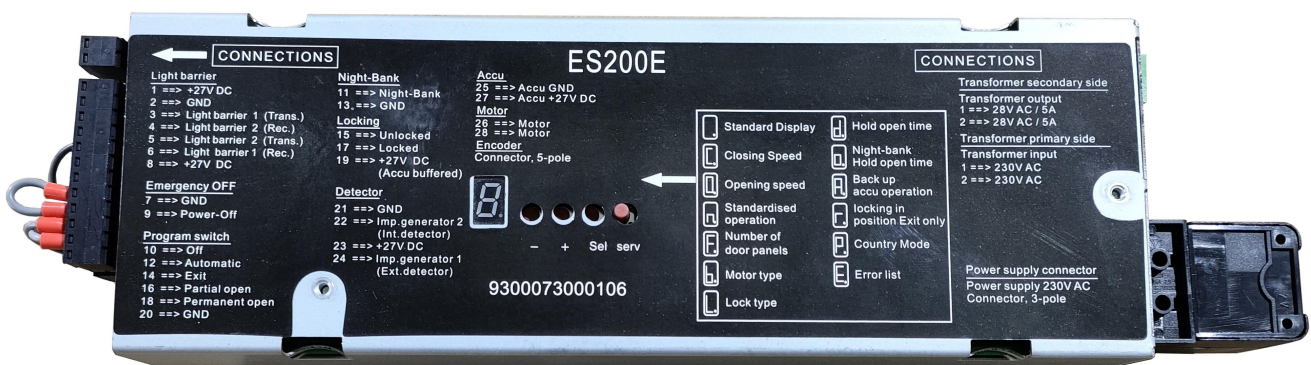
<2> When the door is closed, the central stopper should be adjusted so that the sliding door leaf contacts the sealing strip and the center of the frameless glass door

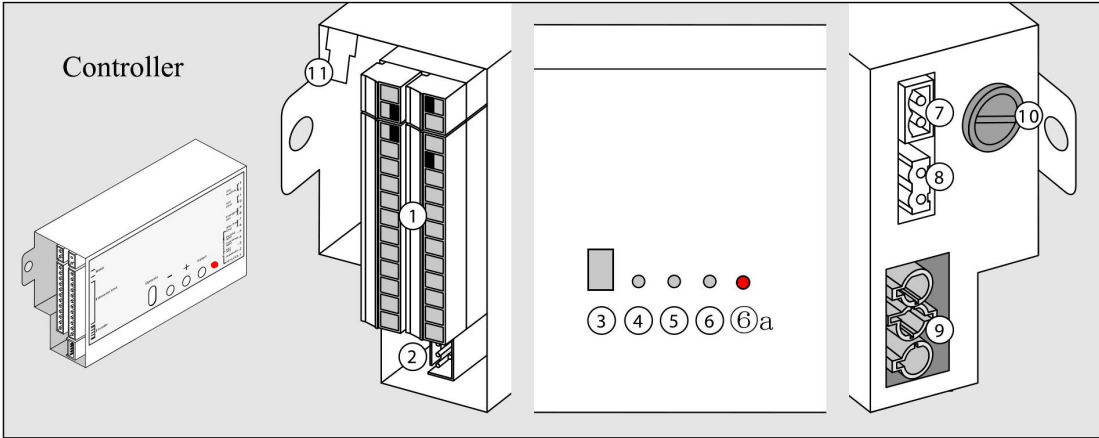
The door gap is approximately 5mm-10mm.

6. The door leaf must move smoothly. Check whether the connecting bolts of the fixed belt are too long and hinder the operation of the pulley. If there are any obstacles, replace them promptly.

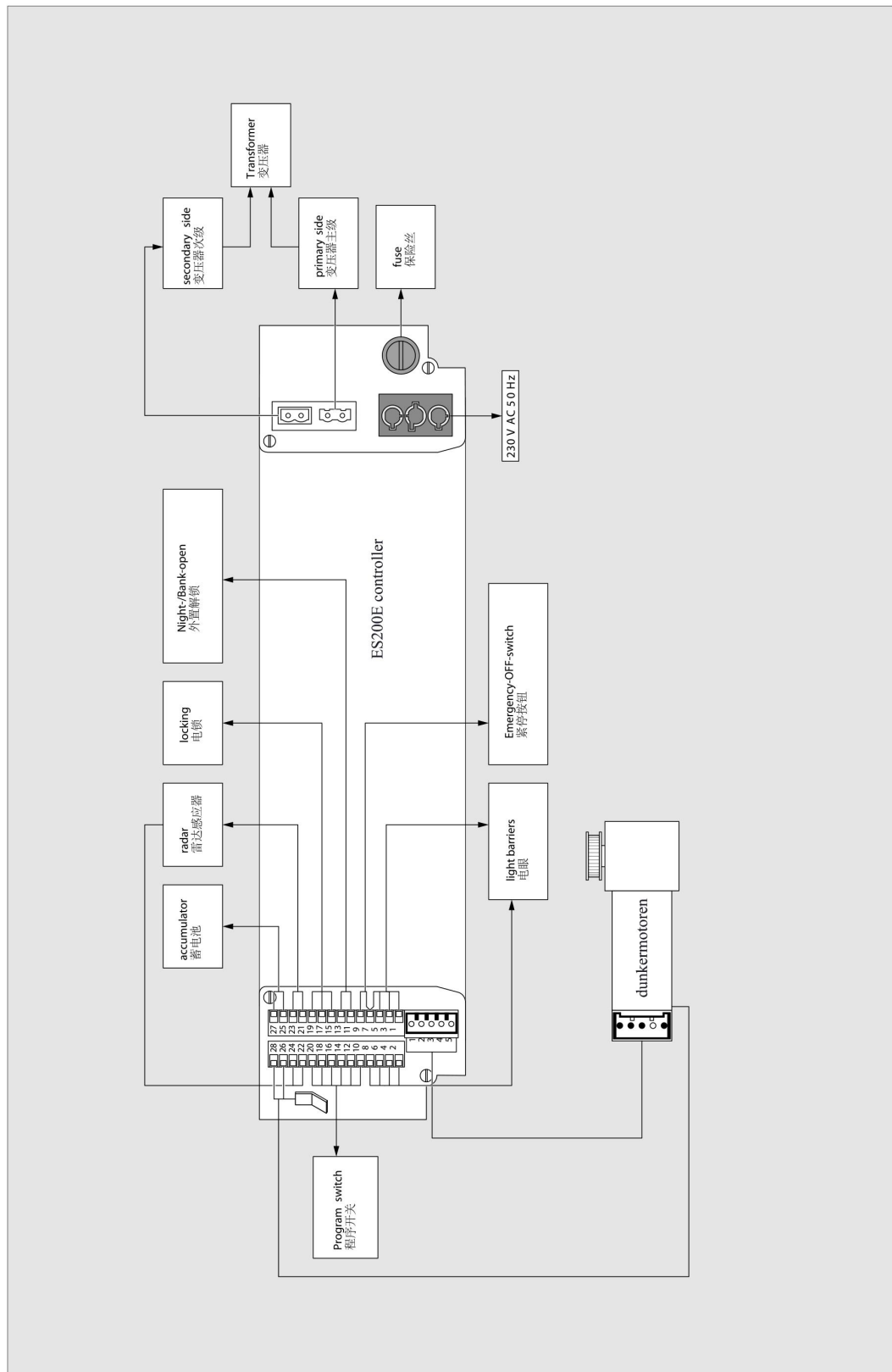
<6> Electrical wiring instructions

1> Controller port definition:



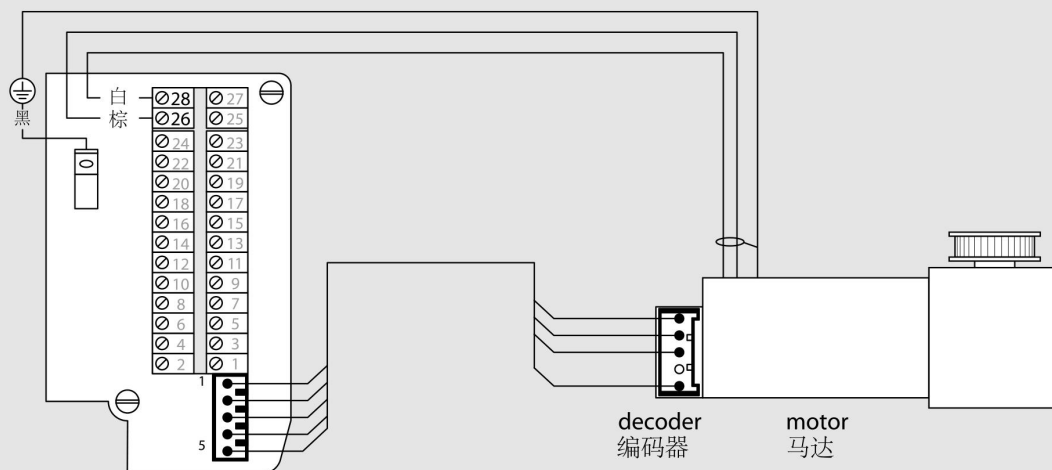


Definición del puerto de cableado izquierdo		D	Description and terminal connections	GB	接线柱描述	中文
①		Utilice un cortador de pernos con ranura de 2 mm para las conexiones de cableado.		Please use here a 2-mm-Slotted bolt turner connection module		请使用2-mm一字螺栓刀进行线路连接
28	→	motor	motor	马达		
26	→	motor	motor	马达		
24	←	sensor exterior	activator 1 (outside)	门外感应器		
22	←	sensor interior	activator 2 (inside)	门内感应器		
20	→	└┐ GND				
18	←	Tierra	PERMANENT OPEN	长期开启	程序开关	
16	←	siempre encendido	PARTIAL OPEN	部分开启	程序开关	
14	←	Parcialmente abierto	EXIT ONLY	单向开启	程序开关	
12	←	Apertura unidireccional	AUTOMATIC	自动	程序开关	
10	←	automático	OFF	关闭	程序开关	
8	→	+ 27 V DC				
6	←	Recibir ojo eléctrico 1	light barrier 1 receiver	接受电眼1		
4	←	Recibir ojo eléctrico 2	light barrier 2 receiver	接受电眼2		
2	→	└┐ GND				
Cambio de programa						
27	←	+ 27 V DC	accumulator	蓄电池		
25	←	└┐ GND	accumulator	蓄电池		
23	→	+ 27 V DC				
21	→	GND				
19	→	+ 27 V DC	accumulator buffered	蓄电池输出+27V		
17	→	Salida de batería	lock	上锁		
15	→	bloqueado	unlock	解锁		
13	→	desbloquear				
11	←	└┐ GND	NIGHT/BANK	外置解锁		
9	←	Desbloqueo externo	emergency closed	紧急按钮		
7	→	boton de emergencia				
5	→	GND	light barrier 2 transmitter	发射电眼1		
3	→	lanzar ojo eléctrico 1	light barrier 1 transmitter	发射电眼2		
1	→	lanzar ojo eléctrico 2				
②						
③		codificador	decoder	编码器		
④	-	Pantalla digital	control panel	数字显示器		
⑤		llave	key	-键		
⑥	+	llave	key	+键		
⑥a	Select	botón seleccionar	key	选择键		
	serv	aprende las claves	key	学习键		
⑦		Transformador secundario	transformer secondary side	变压器次级		
⑧		Polo principal del transformador	transformer primary side	变压器主级		
⑨	230 V AC	fuelle de alimentación	power supply	电源		
⑩		fusible	fuse	保险丝		
⑪	PE	Cubierta interior protectora de puesta a tierra	protector earth interior cover	保护接地内盖板		



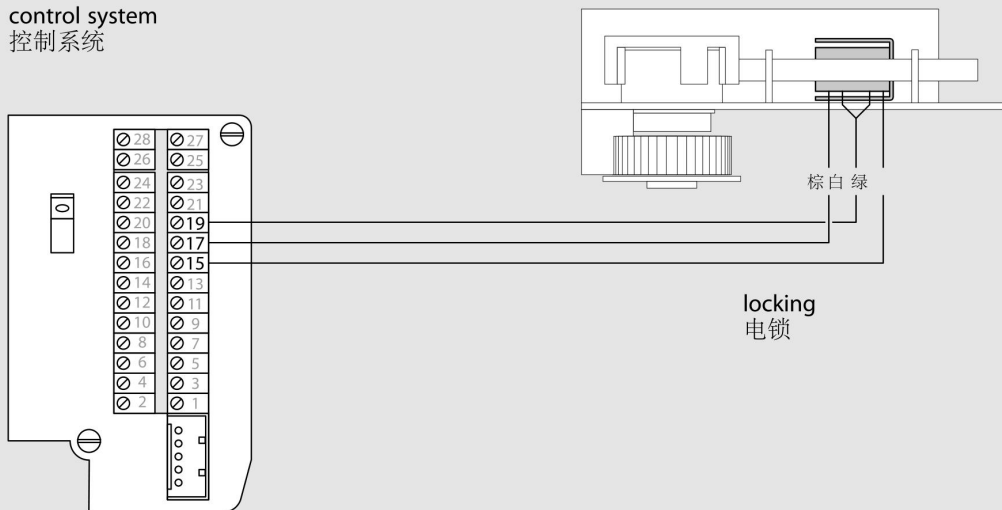
Wiring diagram of the motor and control system 马达接线图

control system
控制系统



Wiring diagram locking contact 电锁接线图

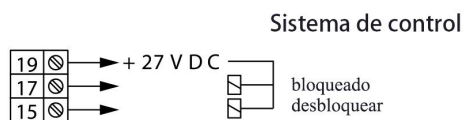
control system
控制系统



(D) Description and
terminal connections

(GB) 接线柱描述

(中文) 中文

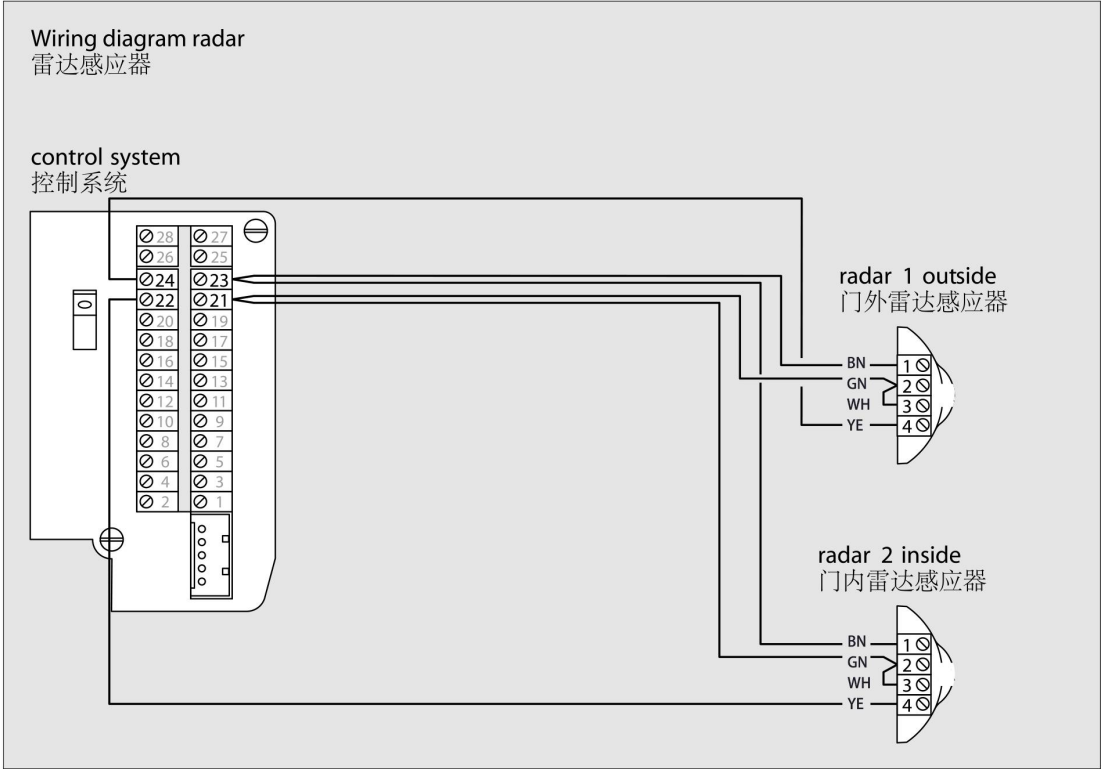


control sy stem

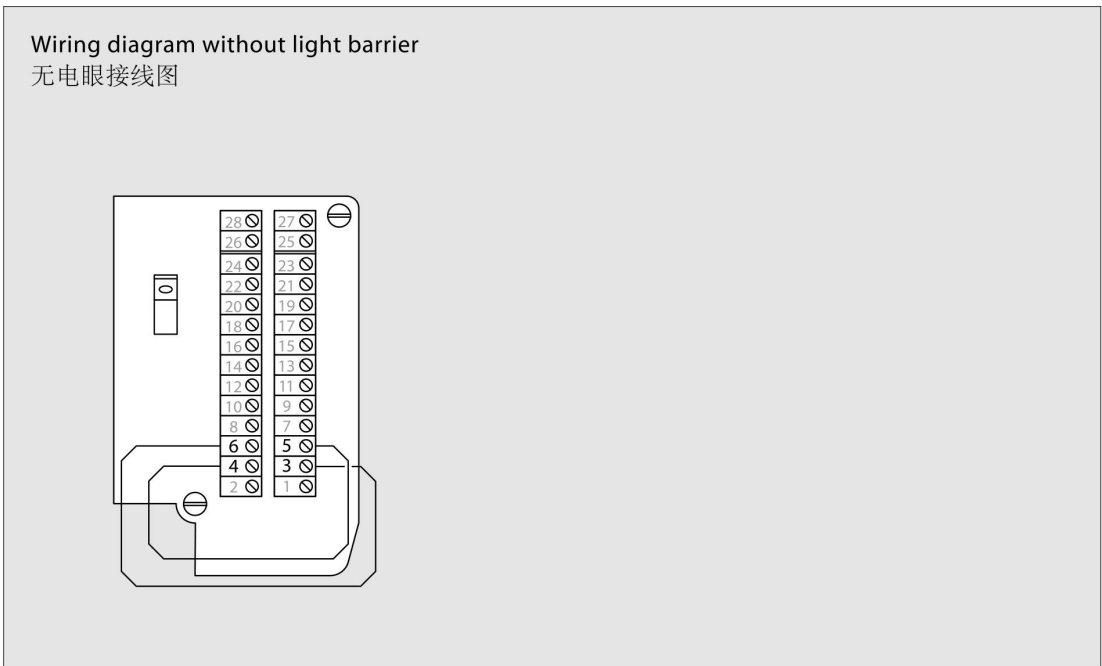
控制系统

locking
unlocking

上锁
解锁

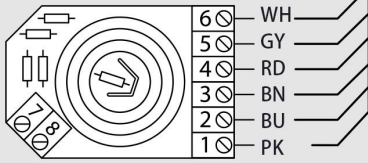


Descripción del terminal	D Description and terminal connections	GB 接线柱描述	中文
<div data-bbox="247 1088 392 1137"> <div>24</div> <div>22</div> </div> <div data-bbox="336 1093 392 1133">←</div> <div data-bbox="579 1093 699 1133">sensor exterior</div> <div data-bbox="579 1120 699 1133">sensor interior</div> <div data-bbox="280 1160 509 1209"> <div>23</div> <div>21</div> </div> <div data-bbox="336 1164 509 1205">→ + 27V DC</div> <div data-bbox="336 1187 509 1205">→ ⊥ GND</div> <div data-bbox="280 1249 778 1350"> <div>4</div> <div>3</div> <div>2</div> <div>1</div> </div> <div data-bbox="336 1254 509 1294">NO</div> <div data-bbox="336 1276 509 1294">C</div> <div data-bbox="336 1276 509 1294">⊥ GND</div> <div data-bbox="336 1276 509 1294">→ + 27V DC</div> <div data-bbox="579 1223 647 1249">Sensor</div> <div data-bbox="552 1285 778 1312">2 y 3 conectados en paralelo</div>	<div data-bbox="804 1043 967 1070">control system</div> <div data-bbox="804 1093 922 1120">radar 1 outside</div> <div data-bbox="804 1120 911 1137">radar 2 Inside</div> <div data-bbox="804 1223 874 1249">Sensor</div> <div data-bbox="804 1285 1026 1312">2 and 3 connected in parallel</div>	<div data-bbox="1082 1043 1177 1070">控制系统</div> <div data-bbox="1082 1093 1203 1120">门外雷达感应器</div> <div data-bbox="1082 1120 1203 1137">门内雷达感应器</div> <div data-bbox="1082 1223 1145 1249">感应器</div> <div data-bbox="1082 1285 1155 1312">2和3并接</div>	

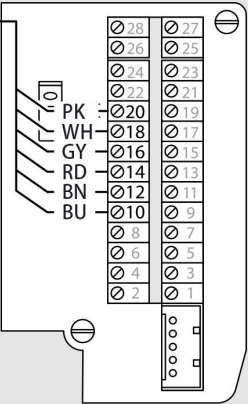


Wiring diagram program switch
程序开关接线图

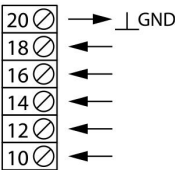
program switch
程序开关



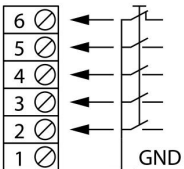
controlsystem
控制系统



Descripción del terminal
Sistema de control



a largo plazo en
Parcialmente abierto
Apertura unidireccional
automático
cierre



a largo plazo en
Parcialmente abierto
Apertura unidireccional
automático
cierre

(D) Description and
terminal connections

controlsystem

permanent open
partial opening
exit only
automatic
OFF

program switch

permanent open
partial opening
exit only
automatic
OFF

(GB) 接线柱描述

控制系统

长期开启
局部开启
单向开启
自动
关闭

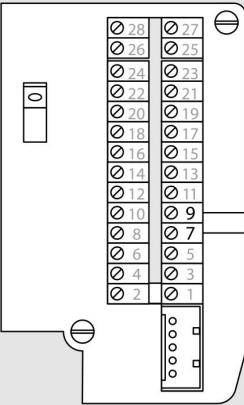
程序开关

长期开启
局部开启
单向开启
自动
关闭

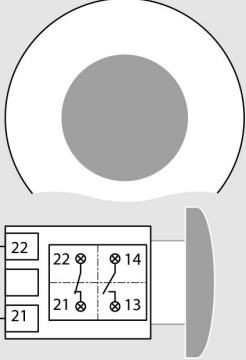
(中文)

Wiring diagram Emergency-OFF-switch
紧停按钮接线图

control system
控制系统

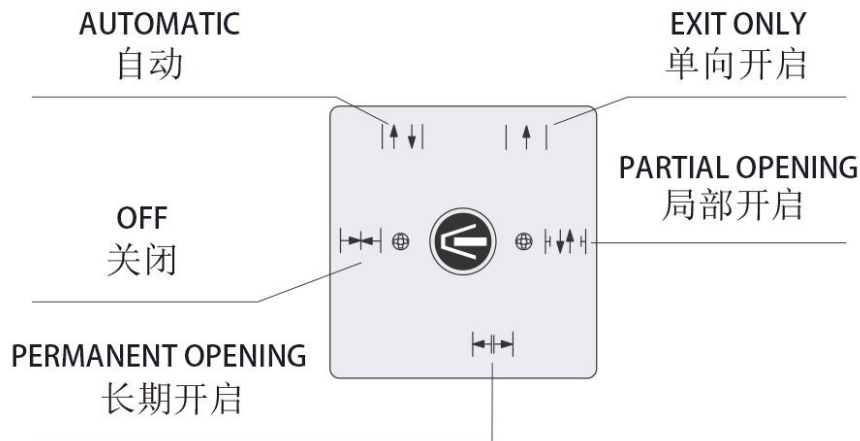


Emergency-OFF-switch
紧停按钮



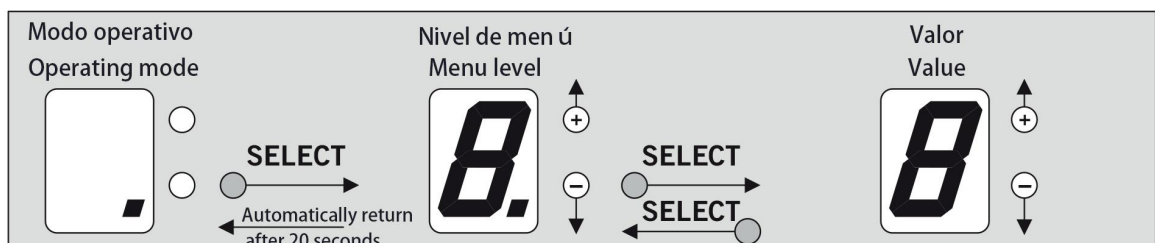
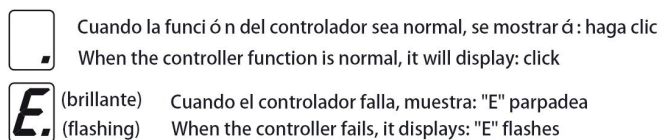
<7> Start the self-learning operation for the first time





1. After turning off the power, move the door leaf to the half-open position;
2. Set the program switch to the "off" position (as shown in the figure below);











3. After the power is turned on, the door must be closed slowly;
 4. Carry out self-learning after the door is closed:
- To perform self-learning operation, press the SERVICE button (protruding red button). When the door slowly opens in the direction of opening, release the SERVICE button, and the door will conduct self-learning; at the same time, the seven-segment display of the control module flashes, and the door opens slowly in the direction of the door. When it runs to the open position and "8" flashes twice on the seven-segment display of the control module, even if the system parameters are stored, the system self-learning has been completed and the door leaf will automatically close.

<8> Parameter adjustment

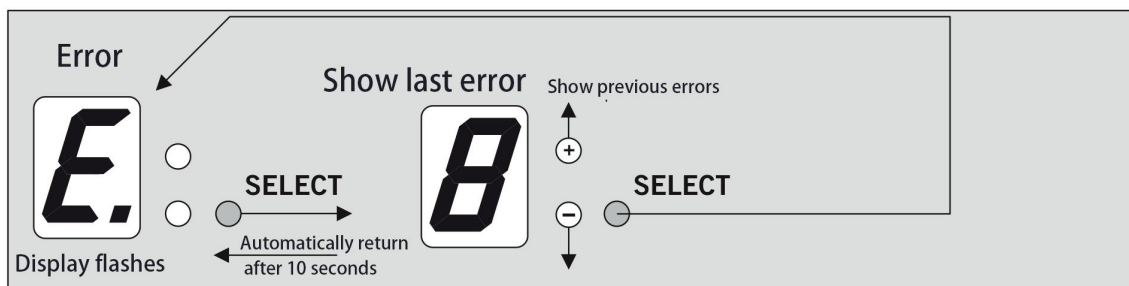


code display	Code meaning
 <p>Fault display</p>	<p>0--No fault 1--Door blocked 2--Electric lock 3--Program switch 4--Electric eye 5--Encoder 6--Backup battery failure 7--Relay test failure 8--Emergency stop button failure 9--Self-learning parameter failure A--Motor failure b--battery test does not detect battery c--force test failure d--motor overcurrent F--DCW Other faults will be displayed on the PDA</p>
 <p>Program mode</p>	<p>0--Standard program mode 1--Australian procedural model 2--French program model</p>
 <p>Lock selection</p>	<p>0--Lock when the program switch is set to the "off" position 1--Lock when the program switch is set to the "off" or "exit only" position 2--Lock when the program switch is set to the "off", "automatic" or "exit only" positions 3--The door is locked when in the closed position</p>
 <p>Lock type selection</p>	<p>0--no electric lock 1--Bistable electric lock 2--Bistable electric lock (NO) with locking feedback signal 3--Monostable electric lock (safety lock) 4--Latch lock</p>



 <p>Backup battery operating mode</p>	<p>0--No backup battery 1--Power off and shut down 2--Turn on after power off 3--Emergency backup battery mode</p>
 <p>External unlocking pause time</p>	<p>0--0 seconds 1--1 second 2--2 seconds 3--5 seconds 4--8 seconds 5--10 seconds 6--15 seconds 7--20 seconds 8--25 seconds 9--30 seconds F--Adjust settings via PDA</p>
 <p>Open door holding time</p>	<p>0--0 seconds 1--1 second 2--2 seconds 3--5 seconds 4--8 seconds 5--10 seconds 6--15 seconds 7--20 seconds 8--25 seconds 9--30 seconds F--Adjust settings via PDA</p>
 <p>Motor type</p>	<p>0--Motor "63X25" small motor 1--Motor "63X55" large motor</p>
 <p>operating mode</p>	<p>0--ZH 1/494 1--DIN V 18650 F--Adjust settings via PDA</p>
 <p>door opening speed</p>	<p>GR63X55:0--d adjustment (13 door opening speed gears) 0: 10cm/s--d: 75cm/s GR63X25:0--b adjustment (11 door opening speed gears) 0: 10cm/s--b: 65cm/s For each additional gear, the speed increases by 5cm/s.</p>




 closing speed	0: 10cm/s--8: 50cm/s (9 closing speed levels) For each additional gear, the speed increases by 5cm/s.
 Parameter setting lock selection	0--Parameter setting locked 1--Parameter setting lock release

Fault information confirmation: The current fault can be displayed and confirmed (the displayed ones must be eliminated), and a total of 10 fault messages can be stored.



Precautions:

1. Menu items must be detected:  =0.;  =1.;

   Modify according to option combination.