



LEGEND CONTROL

support@legendcontrols.com
www.legendcontrols.com

NAME: LE800 ELECTRICAL SCHEMATIC DIAGRAM

Part: LE800/20221216

Code: _____

Version: 2

Pages: 25

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审核	祝通广	Date	2023.02.06		LE800/20220808
批准	于春燕	Date	2023.02.06		

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Revision record

Date	Drawing No	Page	Revised content and reasons	Revision personnel	Version
2021-09-14	LE800/20210914	01-19	New Archive		0
2022-08-08	LE800/20220808	01-22	New Archive		1
2023-02-06	LE800/20221216	01-24	New Archive		2

A
B
C
D

code	position	Meaning	code	position	Meaning	code	position	Meaning	code	position	Meaning
ATS	CAR	Attendant Key Switch	BM	CTR	Brake coil	BFS	HTW	buffer switch	MT	MR	Motor overheat switch
CLI	CAR	Car Lighting	K1	CTR	Band brake relay	DS	HTW	Floor lock electrical linkage switch	MES2	MR	Host emergency stop button
CTB	CAR	Car Top INS Box of control panel	K5	CTR	Band brake relay	FLSD	HTW	Lower limit switch	PG	MR	Encoder (traction machine)
COB	CAR	Command operation board	CIS	CTR	Emergency electric operation switch	FLSU	HTW	Upper limit switch			
DM	CAR	Door motor	DDB	CTR	Emergency electric operation down button	GTS	HTW	Speed limiter tension wheel rope break switch			
DZI	CAR	Door area switch	DBR	CTR	Braking resistor	HCB	HTW	Floor displayboard			
DHB	CAR	Door Hold Buttons	EPB	CTR	ARD Activate button	LIH	HTW	Hoistway lighting			
ECL	CAR	Car emergency lighting	QF1	CTR	Input Power Switch	LIHS2	HTW	Hoistway lighting switch			
EML	CAR	electromagnetic lock	KS1	CTR	Lighting power switch	OS	HTW	Speed limiter electrical switch			
FAN	CAR	Car fan				PES1	HTW	Emergency stop button for pit maintenance box			
FIRS2	CAR	Fireman switch(COP)	MES1	CTR	Control cabinet emergency stop button	PL1	HTW	Pit lighting			
GS	CAR	Car door lock switch	SA1	CTR	Electric release button 1	PLS	HTW	Pit lighting switch			
ISS	CAR	Independent Service Switch	SA2	CTR	Electric release button 2	PUR	HTW	Pit socket			
LWO	CAR	Load Weighing Overload	UDB	CTR	Emergency electric operation up button	RRD	HTW	Speed limiter remote release coil			
LWX	CAR	ANS Load Weight	ML800-CBP	CTR	Band brake power board	RTD	HTW	Speed limiter remote action coil			
MSC	CAR	Magnetic scale controller	JYD-ARD220 ARP001-G	CTR	ARD						
NSB	CAR	Non Stop Button	V-KZG	CTR	interface board						
RS	CAR	ectromagnetic lock relay	VDRV-35A	CTR	Drive board						
SOS	CAR	Safety gear switch	VMCB	CTR	Main control board						
TCI	CAR	Car maintenance knob									
TCIB	CAR	Top of car Inspection Button									
TCID	CAR	INS down button									
TCIU	CAR	INS UP button									
TES	CAR	emergency stop button									
TECL	CAR	maintenance lighting									
TLS	CAR	lighting switch									
TOCL	CAR	maintenance lighting									
TUR1	CAR	socket AC220V									

LE800 Electrical Schematic Diagram Process Standard:

1. Naming rules for power level:

The 380V power supply is named R, S, T, and N before the main power switch.

The 220V power supply is named L and N before the main power switch.

The 220V lighting power supply is named 501 and 502 before the lighting power switch.

The 24V output terminals of the system are named 301 and 302.

The safety circuit 24V is named 101 and 102.

The naming after these ranges from 103 to 199, 203 to 299, 303 to 399, and 503 to 599 according to the rules.

2. Naming rules for wire numbers:

101-199 as a DC 24V safety circuit related line;

201-299 is used as an AC 220V related line for control purposes;

301-399 serves as the DC 24V related circuit of the system;

501-599 as an AC 220V lighting circuit related circuit;

801-810 serves as an AC 220V related line for shaft lighting;

3. Switch and contact rules:

All switches and relays have a habit of opening and closing from top to bottom, and opening from left to right.

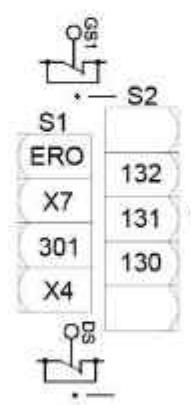
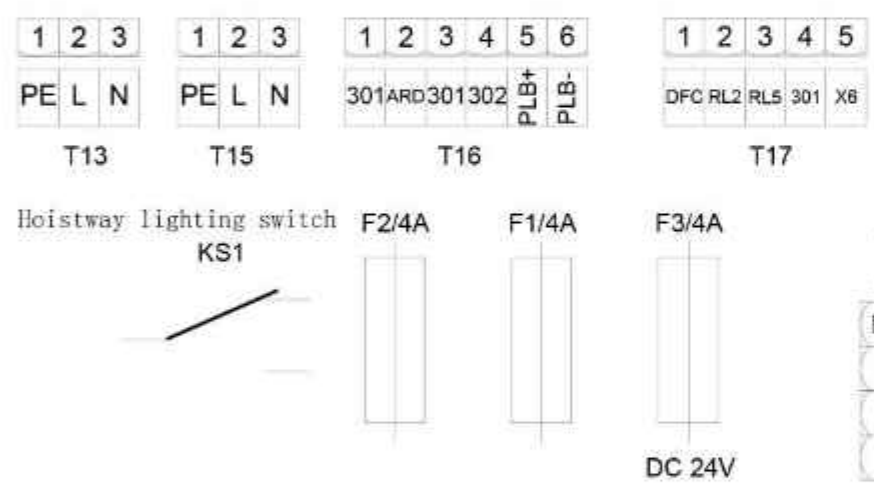
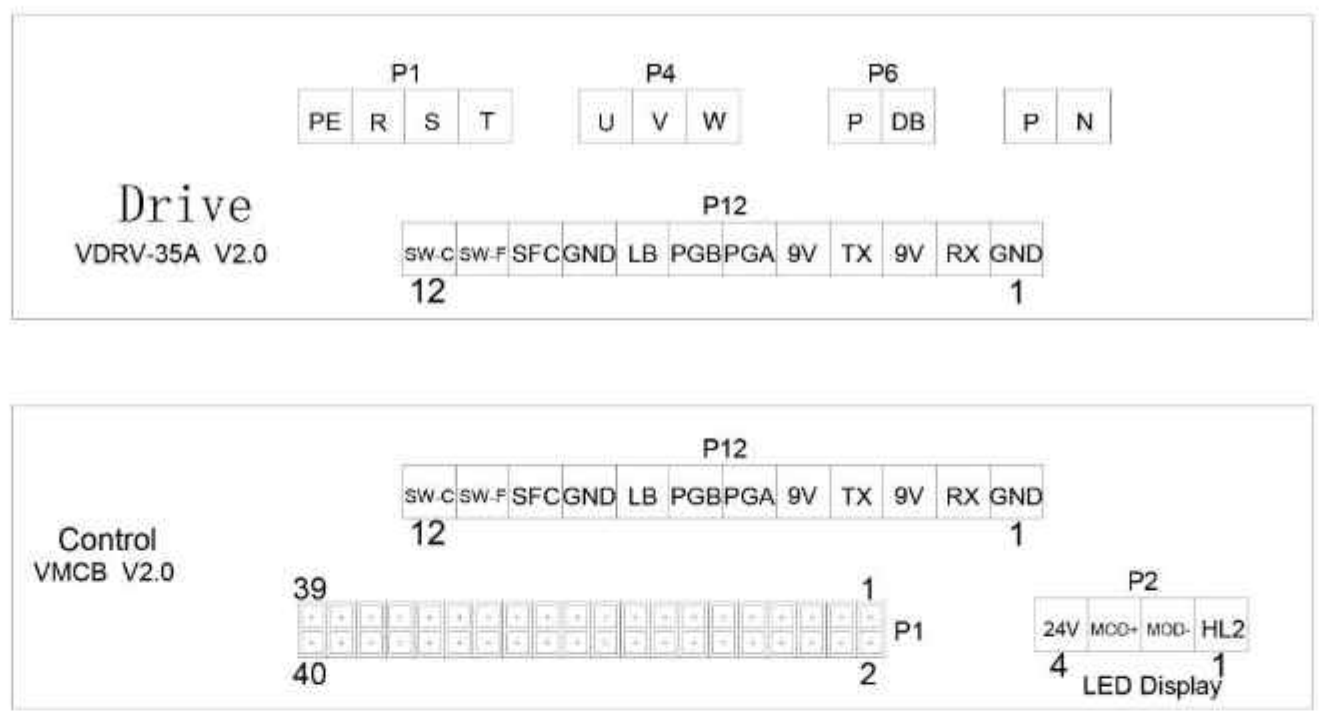
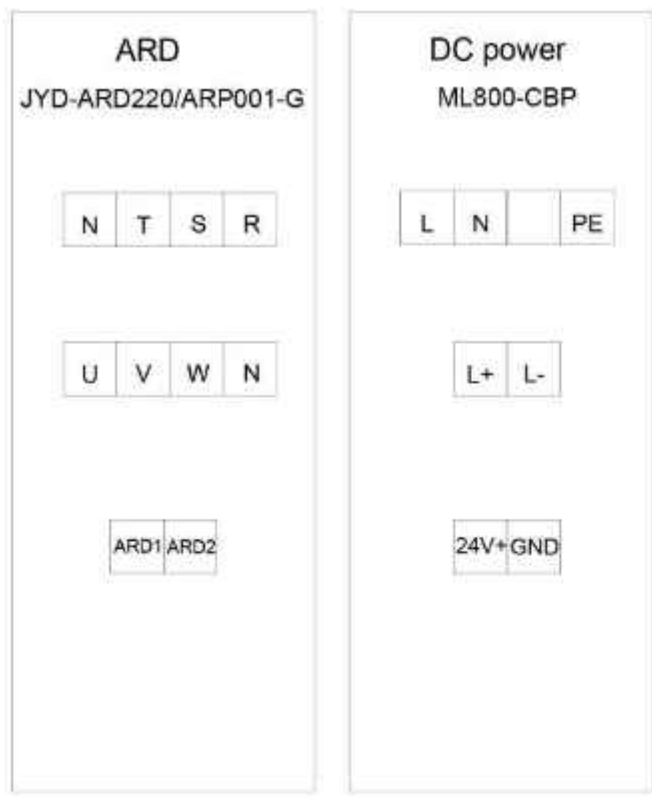
4. This schematic diagram is applicable to the modular villa elevator integrated cabinet produced by our company.

5. Applicable scope of drawings:

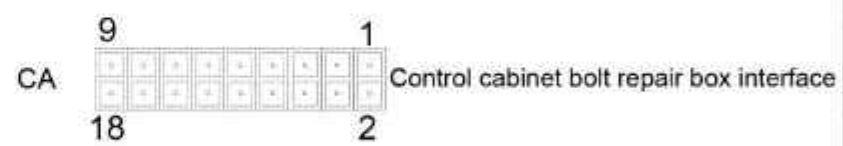
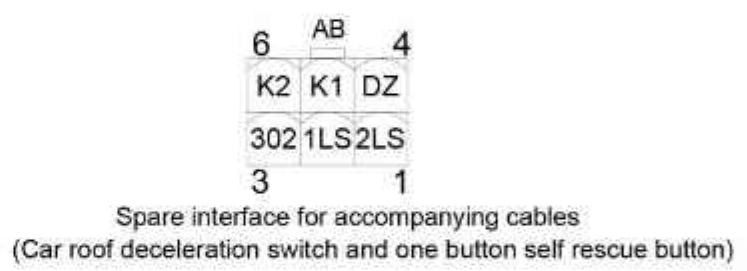
Synchronous control cabinet.

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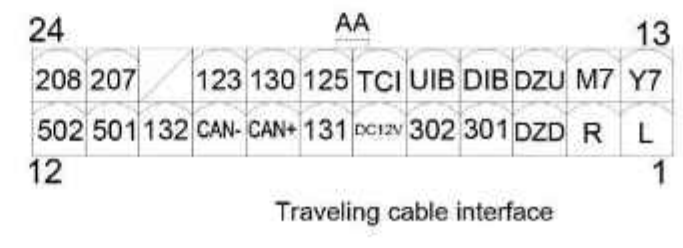
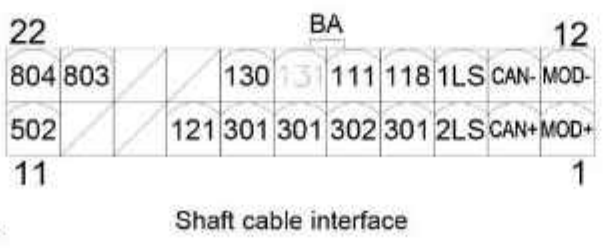
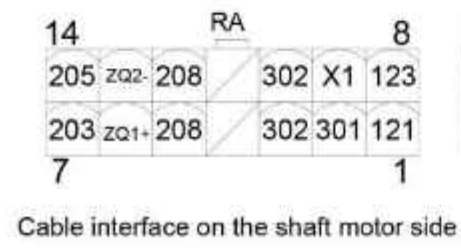
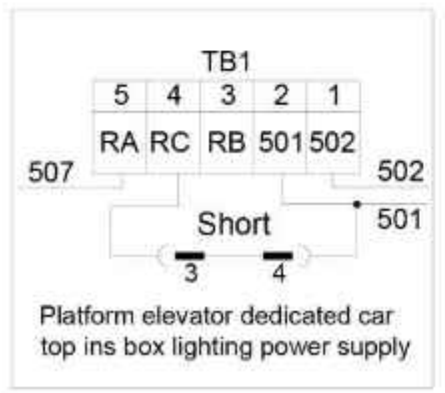
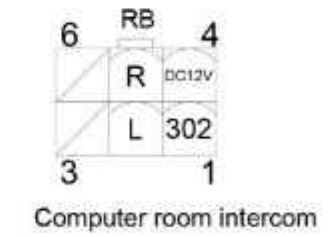
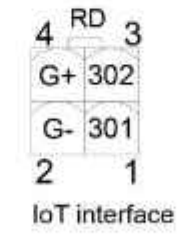
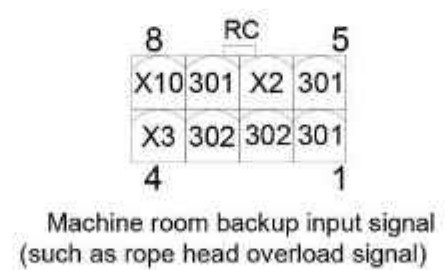
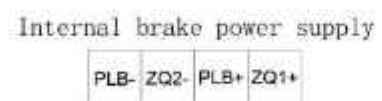
I/O terminal comparison	
Name	Definition
DFC	Car door lock
DW	Hall door lock
ERO	Emergency electric
ES	Safety circuit
UIB	Emergency electric uplink
DIB	Emergency electric down
1LS	Downward deceleration and forced deceleration signal
2LS	Up deceleration and down forced deceleration signal
DZU	Door area switch (UP)
DZD	Door area switch(DOWN)
X1	Motor brake feedback
X2	overload
X3	EDP
X4	Bypass Normally Closed
X5	ARD
X6	brake contactor feedback
X7	reserve
X8	reserve
X9	reserve
X10	REDP
K1	(Y1) Brake output
K5	
K2	Electric brake release output
K7	
K3	Speed limiter test
K4	Speed limiter reset
K9	Electronic safety gear output
K10	(Y3) Hand operated door opening signal



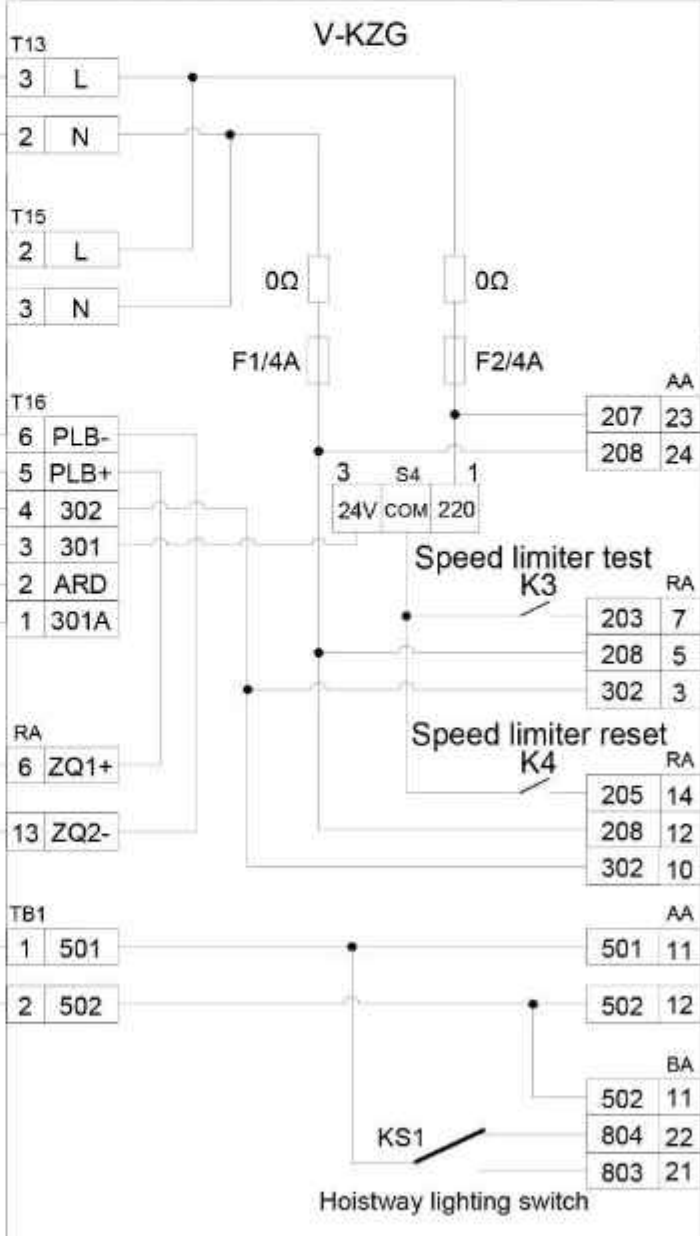
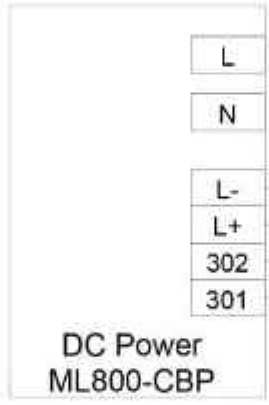
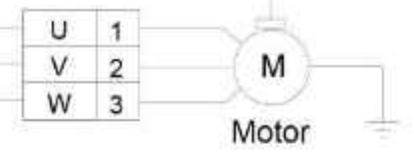
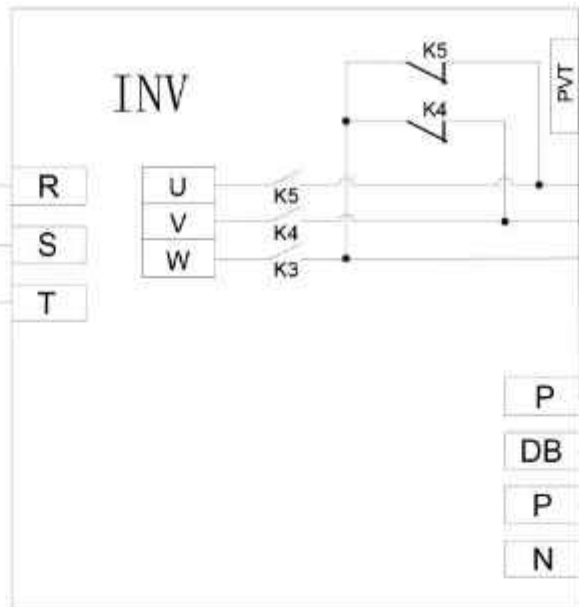
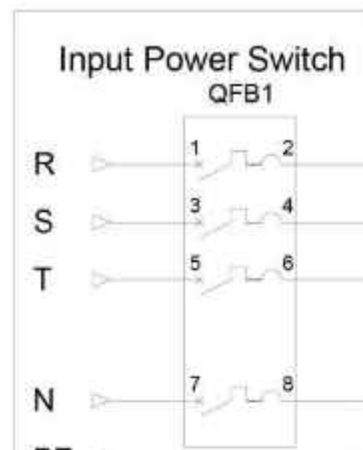
Short circuit of enclosed hall door or enclosed car door



Short circuit according to the voltage of the speed limiter
Example: If the speed limiter is 220V, then pins 1 and 2 are short circuited



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				LE800/20221216	共 25 页	



Door motor power supply/hall door power supply

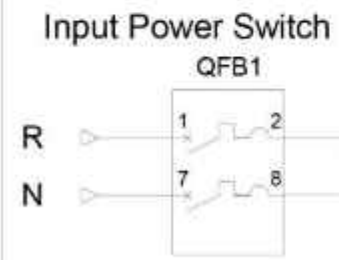
Speed limiter test

Speed limiter reset

24V Speed limiter

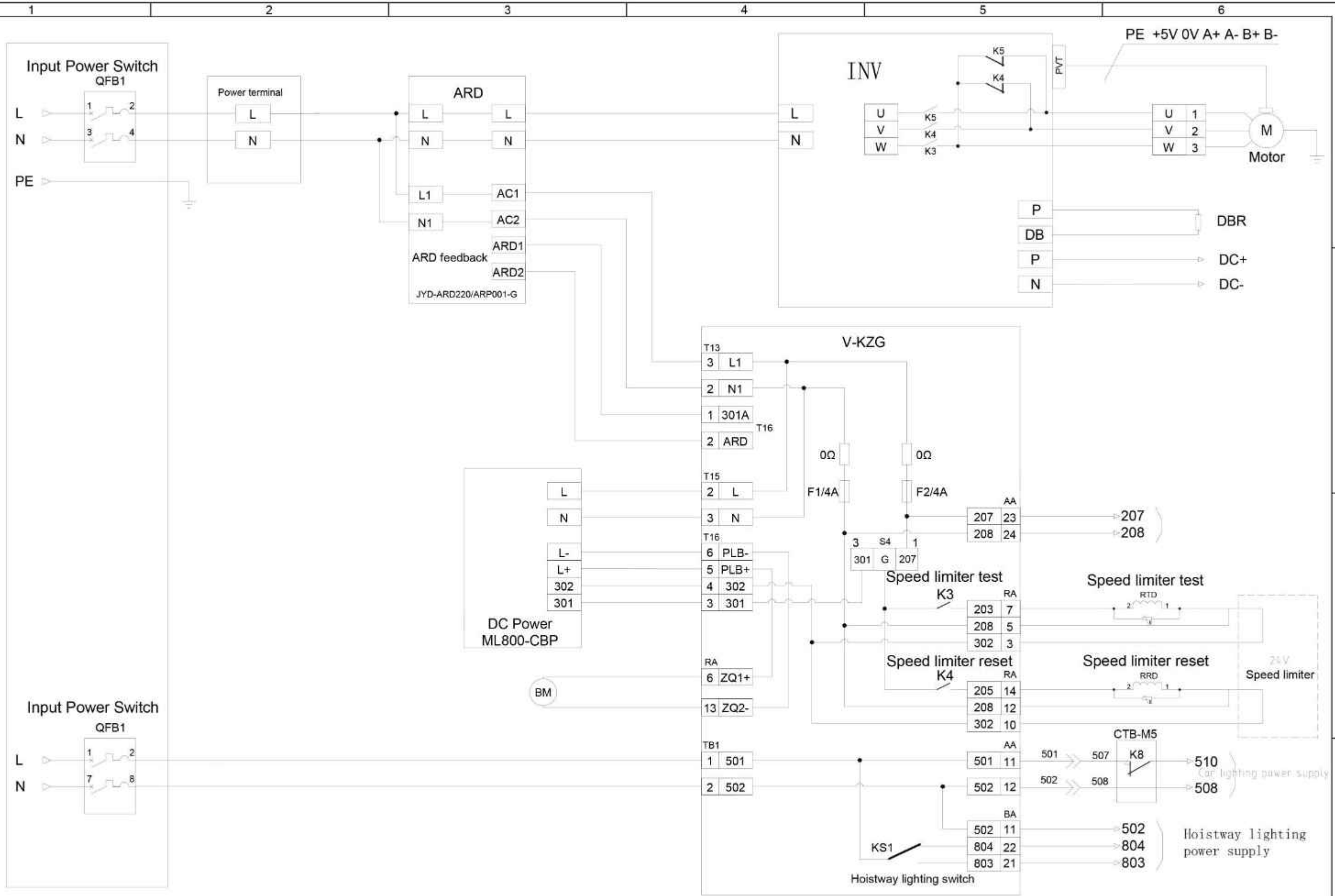
Car lighting power supply

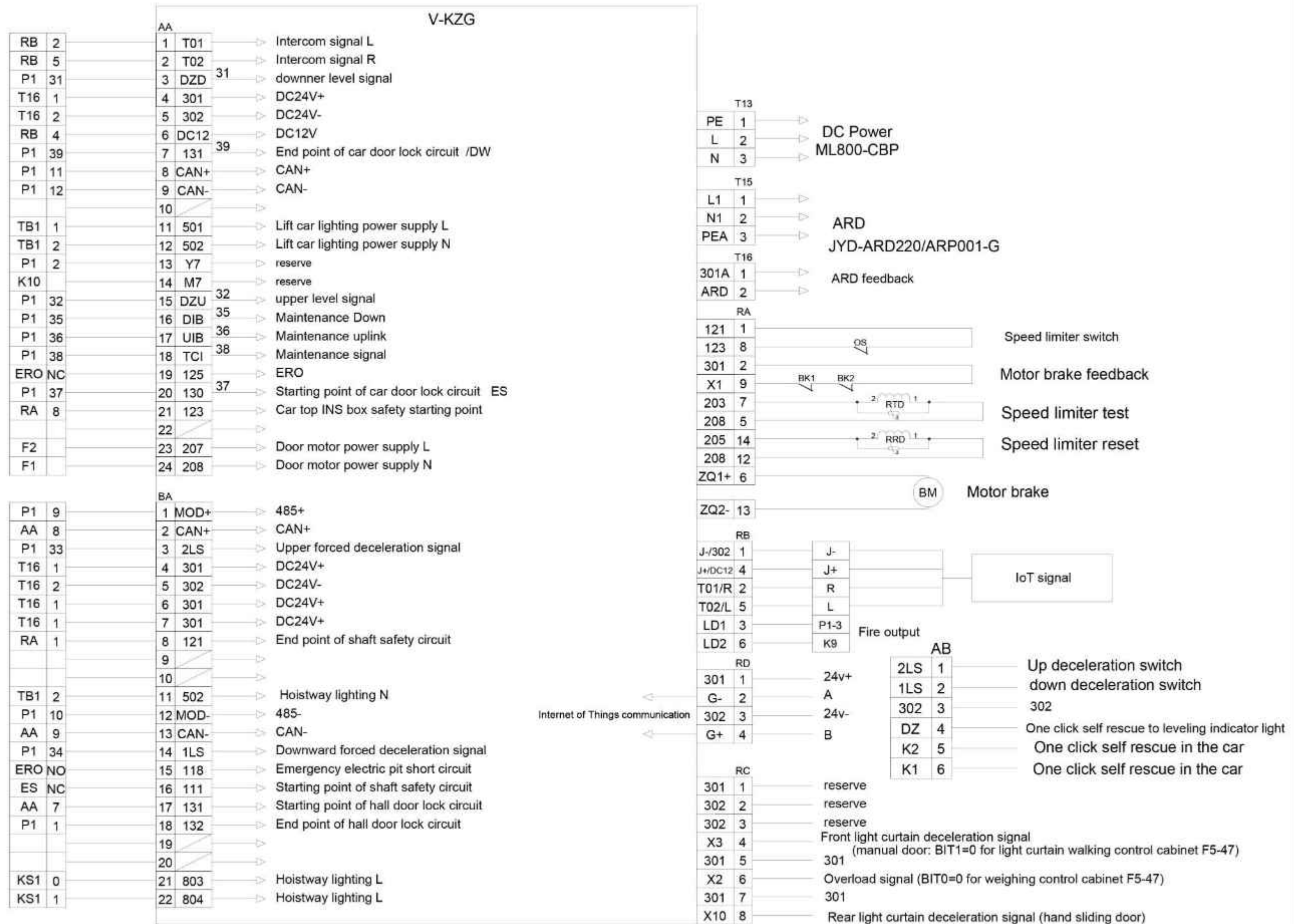
Hoistway lighting power supply

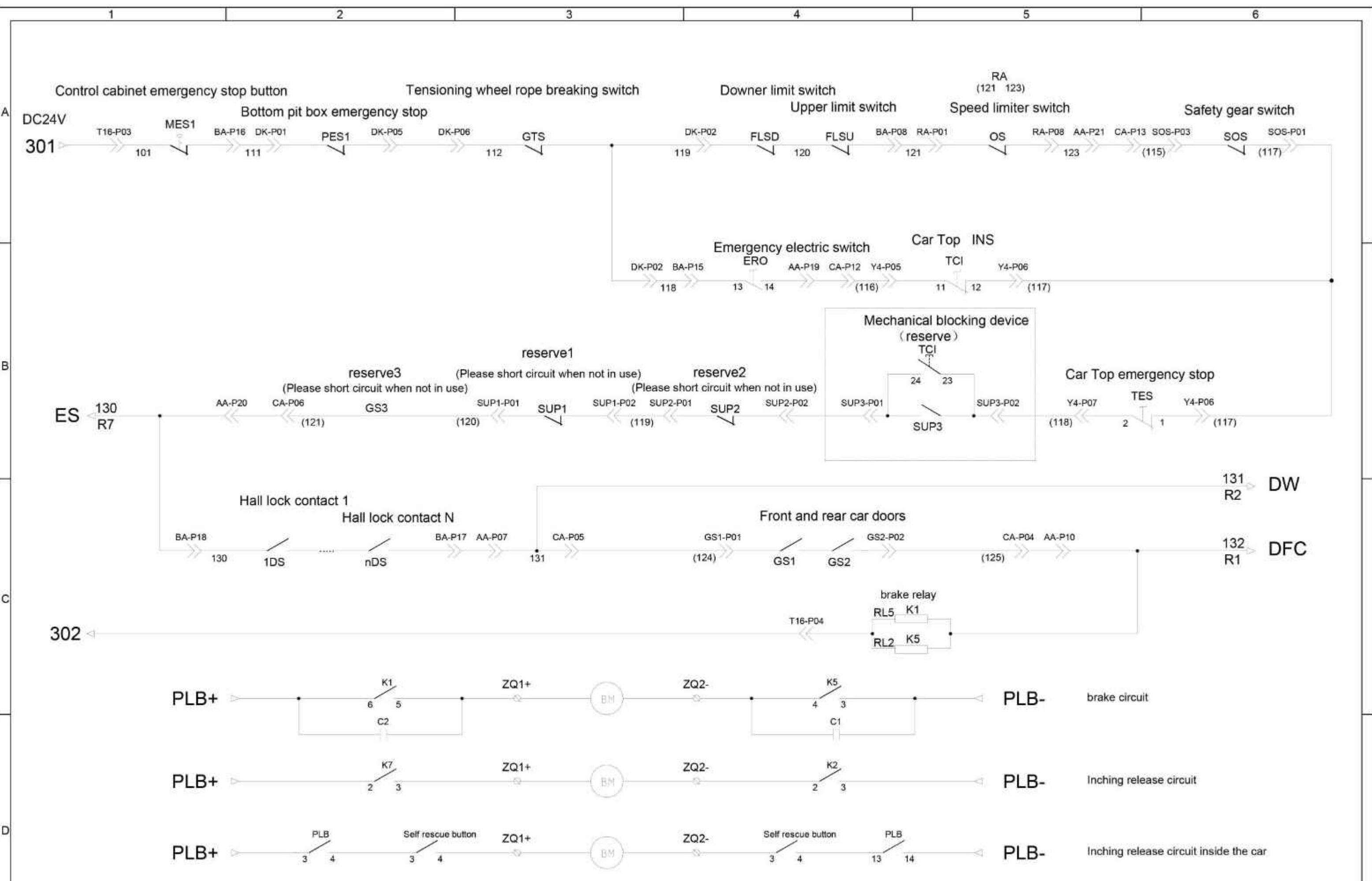


设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 7 页
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批准	于春燕	日期	2023.02.06		

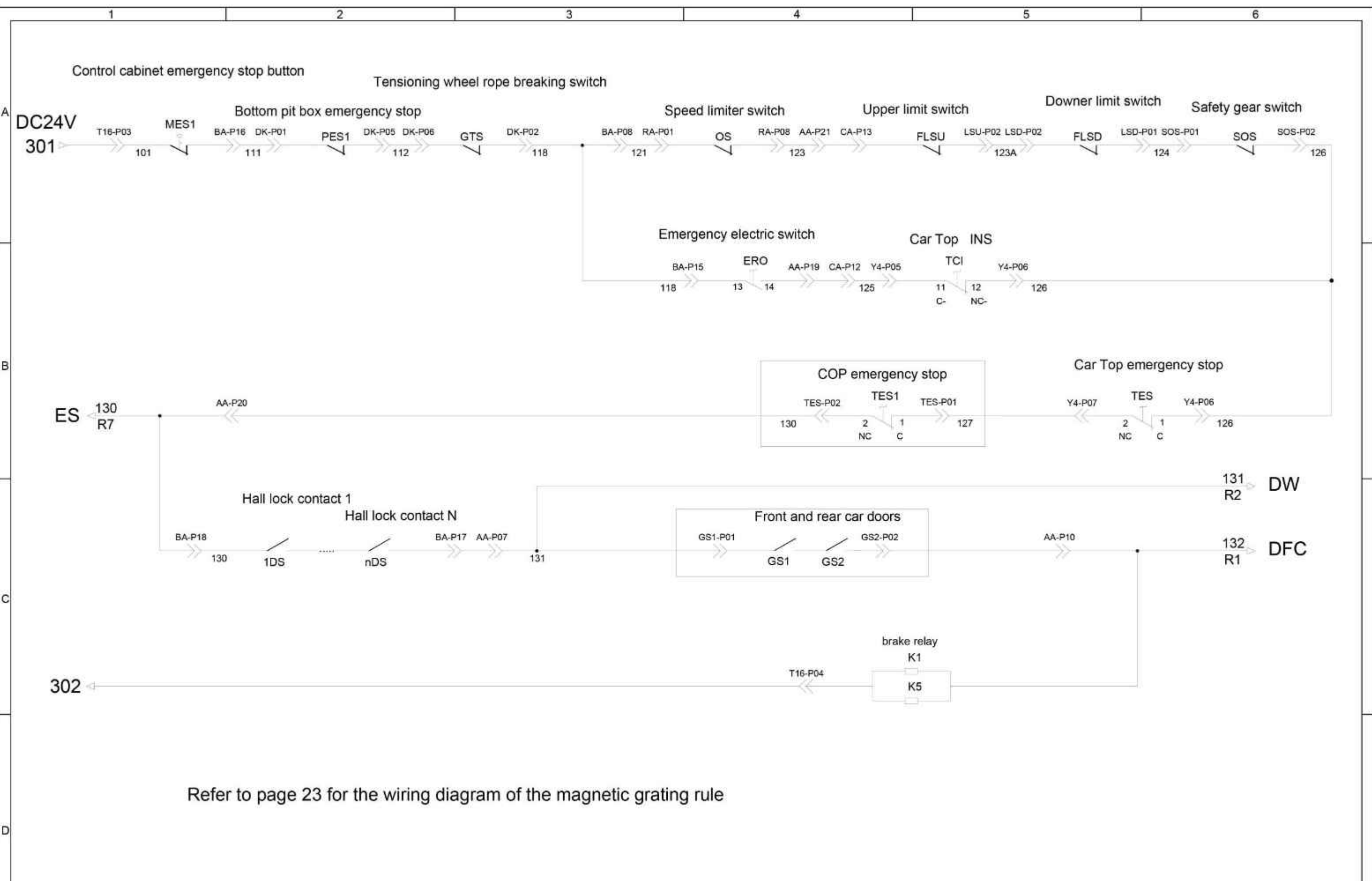
380V Power diagram







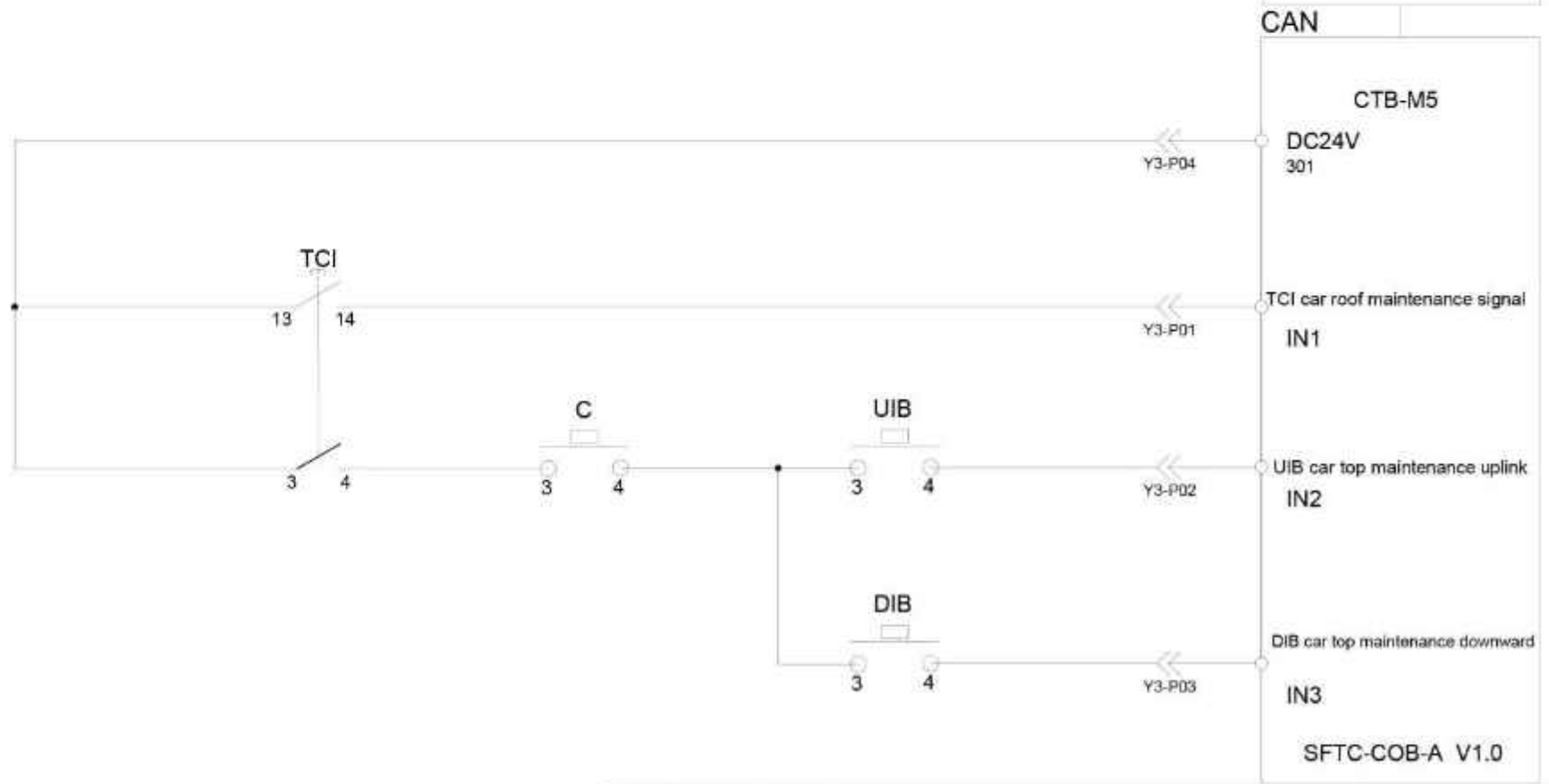
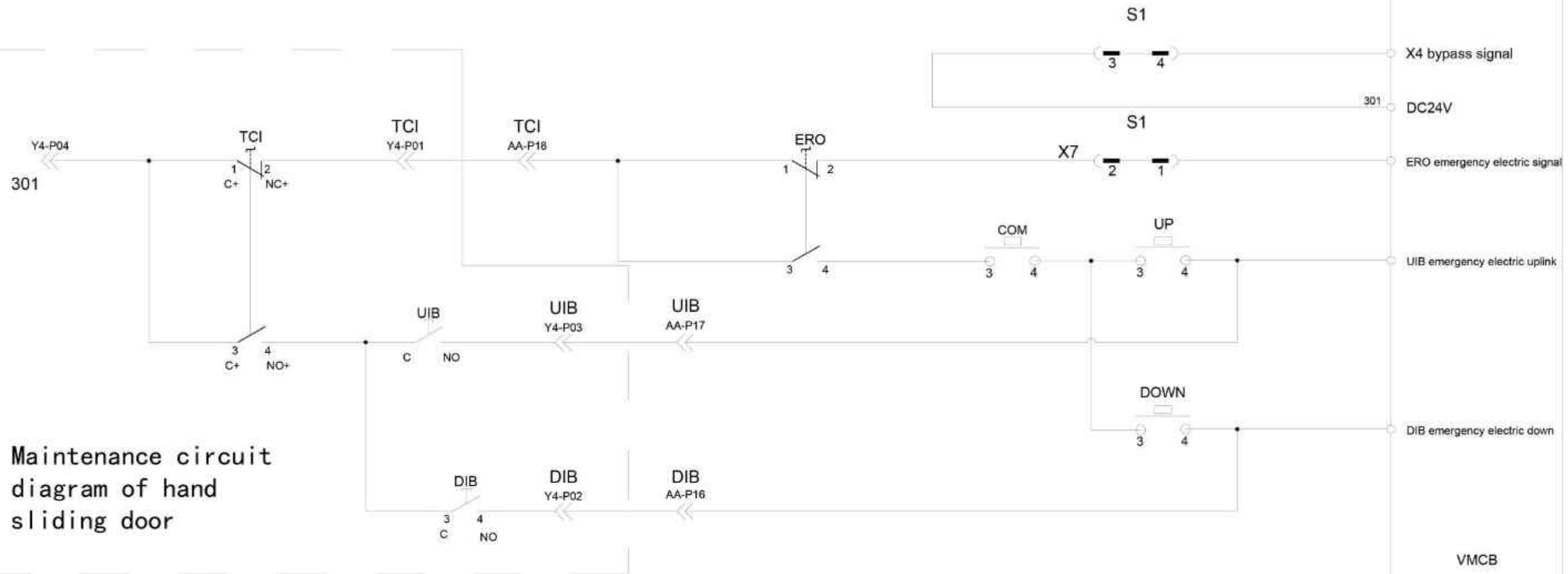
设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 10 页	Safety circuit diagram (Automatic Door)
审核	祝通广	日期	2023.02.06			
批准	于春燕	日期	2023.02.06			
				LE800/20221216	共 25 页	



Refer to page 23 for the wiring diagram of the magnetic grating rule

设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 11 页	Safety circuit diagram (Hand sliding door)
审核	祝通广	日期	2023.02.06			
批准	于春燕	日期	2023.02.06			
				LE800/20221216	共 25 页	

Maintenance circuit diagram of hand sliding door



Terminal block connections:

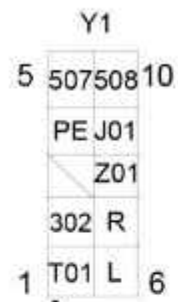
- 301 DC24V
- X4 bypass signal
- ERO emergency electric signal
- UIB emergency electric uplink
- DIB emergency electric down
- VMCB
- CAN
- CTB-M5
- DC24V 301
- Y3-P04
- Y3-P01
- Y3-P02
- Y3-P03
- IN1
- IN2
- IN3
- SFTC-COB-A V1.0

Car top interface board

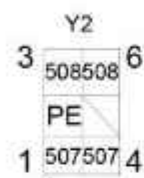
LETC-CTB-M5 V3.1

Control cabinet plug-in version			
CODE	meaning	CODE	meaning
RA	Brake cable	AB	Self rescue
BA	Shaft cable	DK	PIT
AA	Traveling cable		
RC	reserve		
RD	IOT		
RB	intercom		

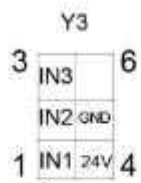
Y1---Y5



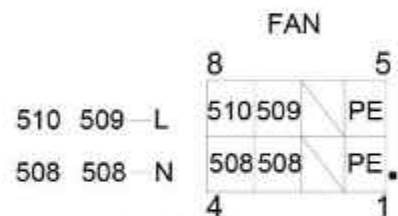
INS box socket and lighting interface



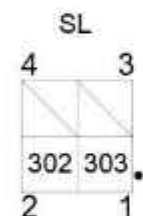
INS communication interface



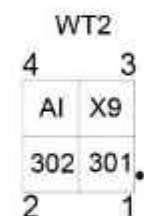
Emergency power interface for INS box



fan/lighting power supply



audible and visual alarm



Analog weighing



Car bottom weighing switch



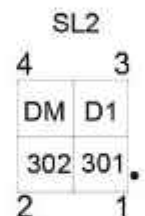
fan/lighting switch



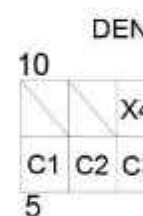
Upper and lower door areas



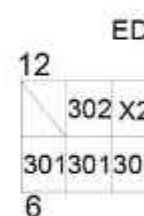
Arrival bell



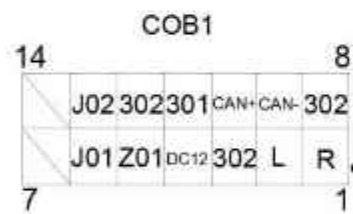
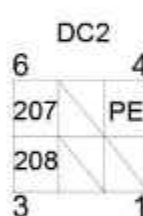
Rear door machine control



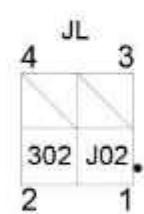
Rear door light curtain



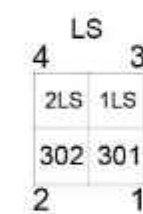
Rear door machine power supply



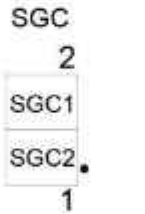
COP



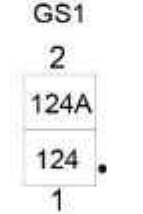
alarm bell



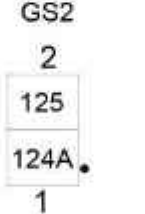
Up and down deceleration switch



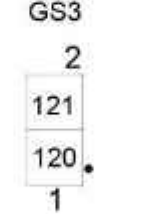
Amplitude door lock



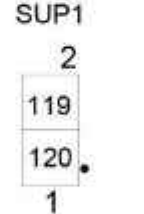
Front car door lock



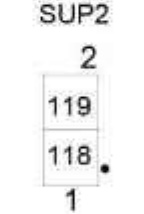
reserve



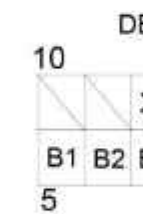
reserve



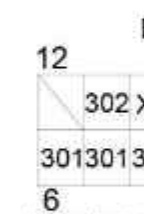
safety pin



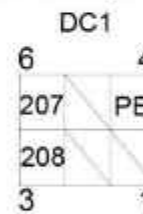
safety pin



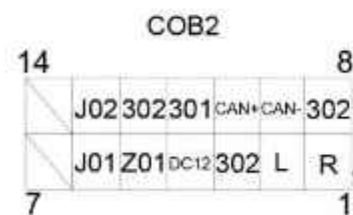
door machine control



door light curtain



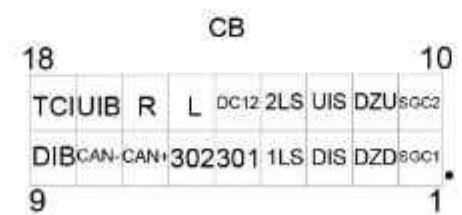
door machine power supply



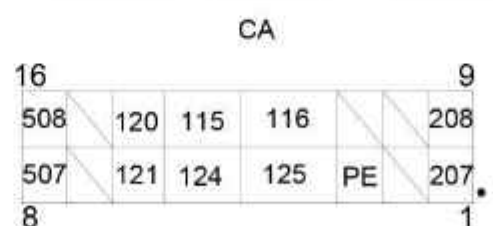
RCOP



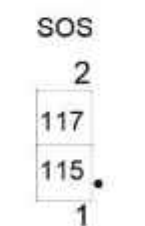
Car top INS box intercom



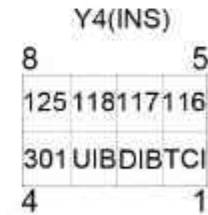
Traveling cable 1



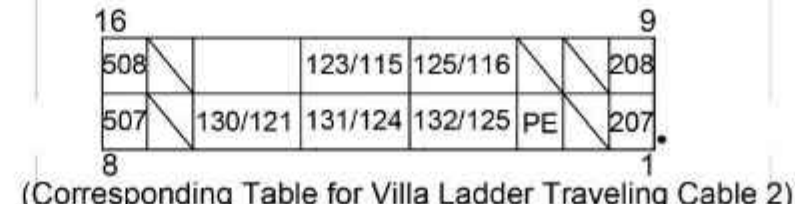
Traveling cable 2



Safety gear

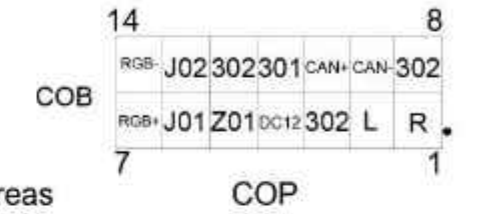
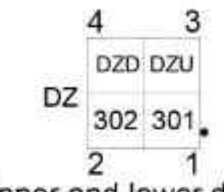
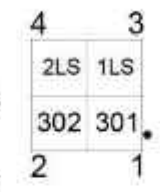
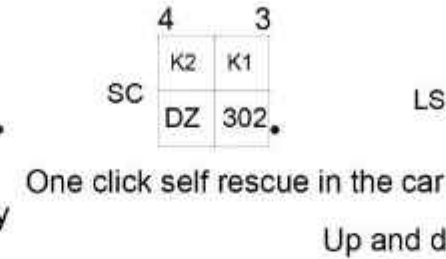
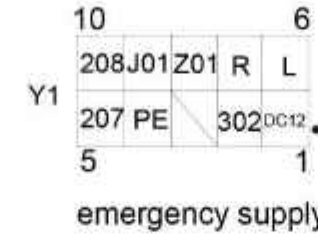
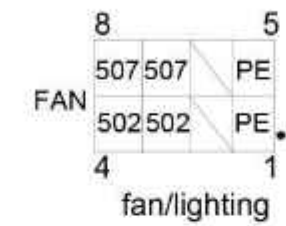
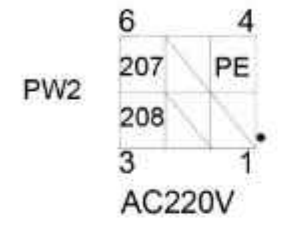
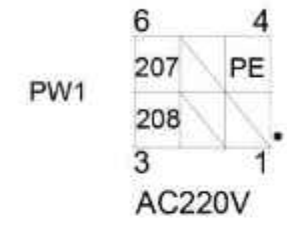
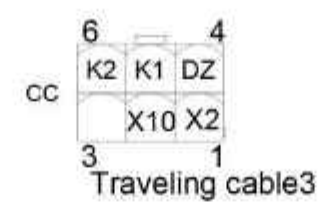
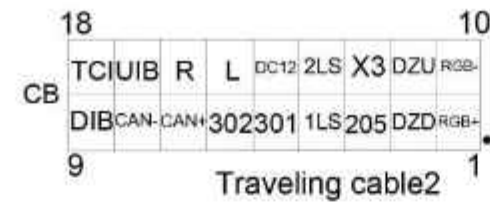


Car roof maintenance and emergency stop



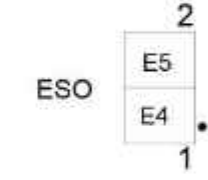
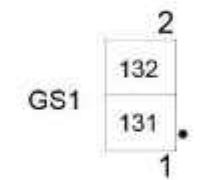
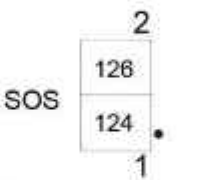
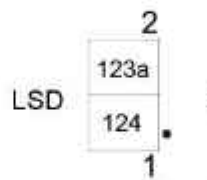
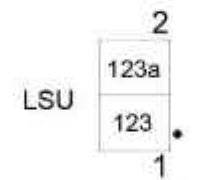
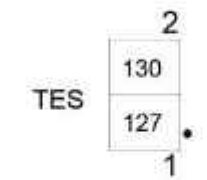
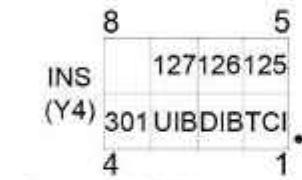
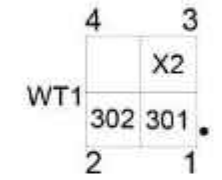
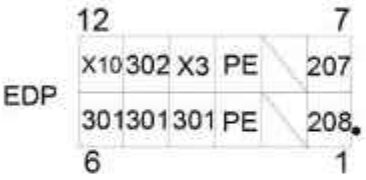
(Corresponding Table for Villa Ladder Traveling Cable 2)

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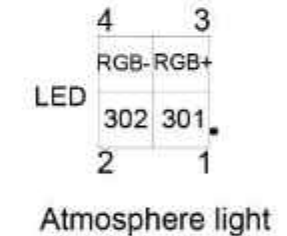
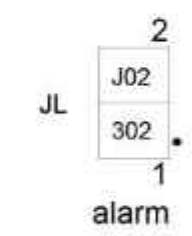
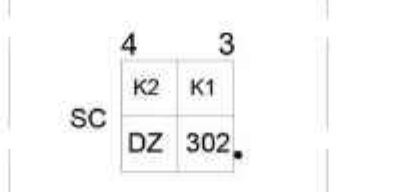
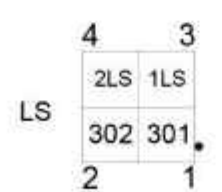
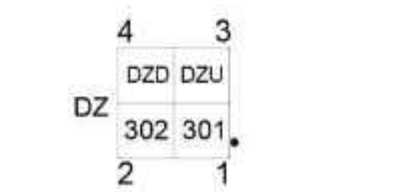
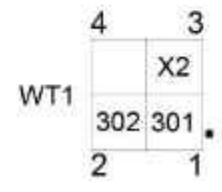
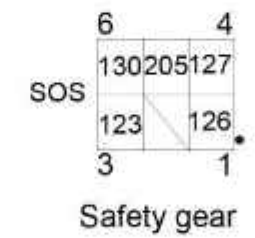
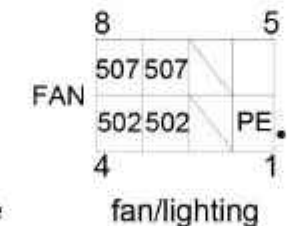
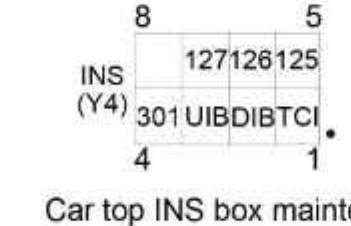
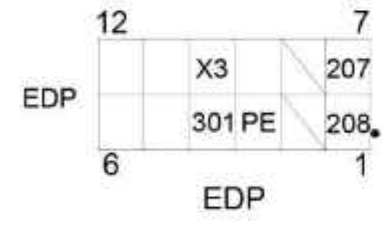
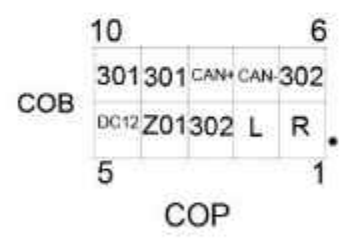


Touch screen power supply

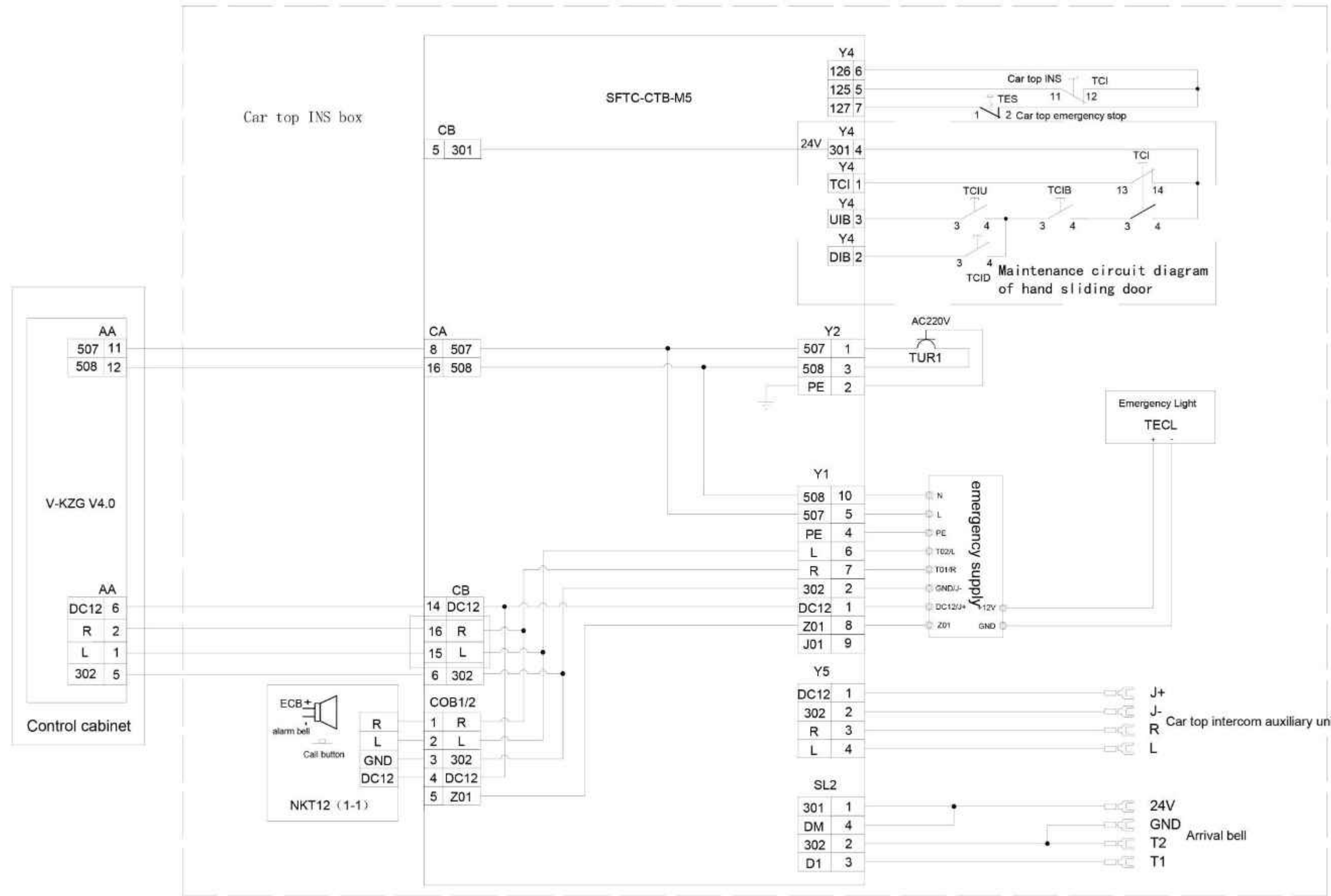
Electronic safety gear power supply

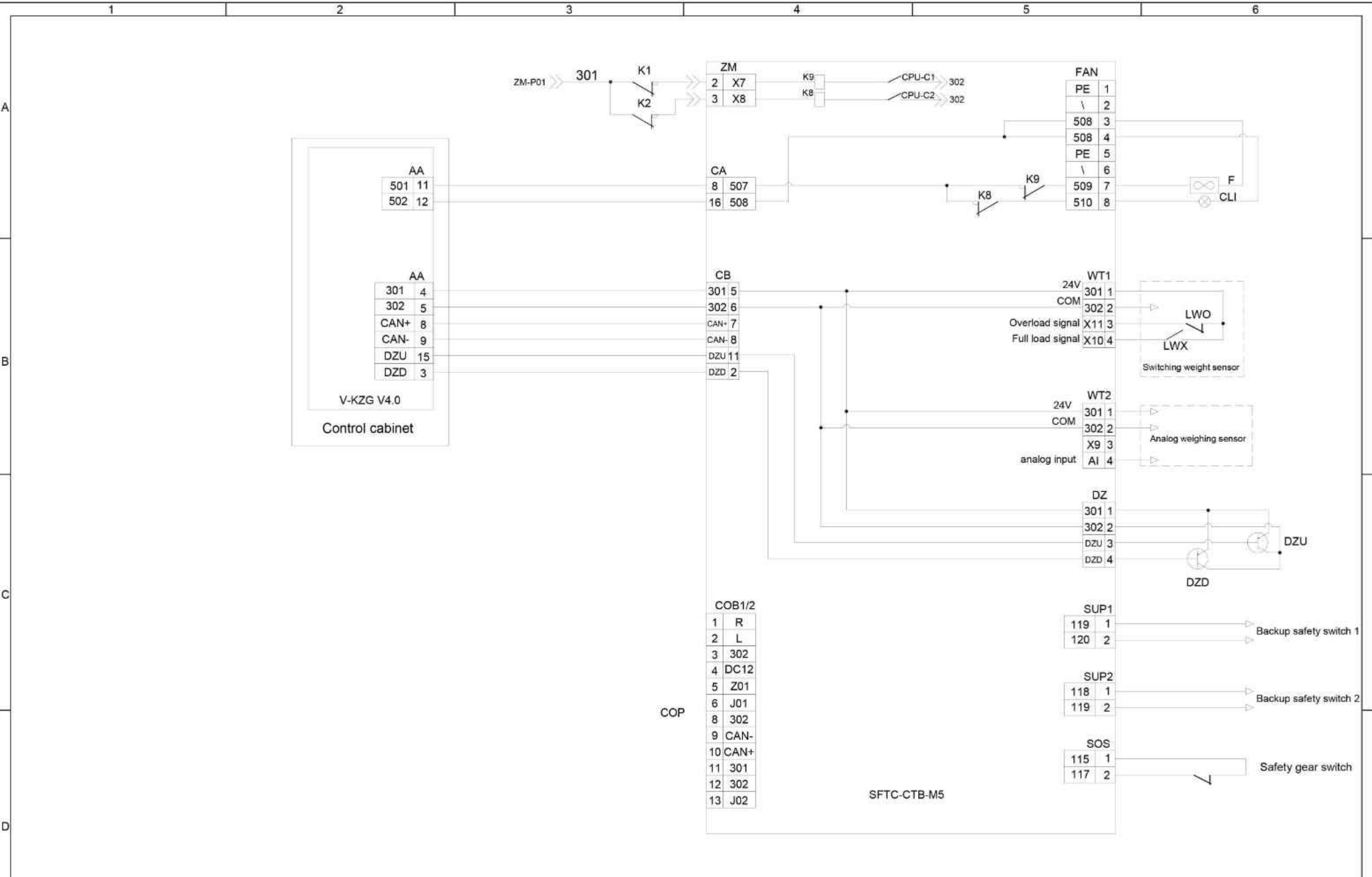


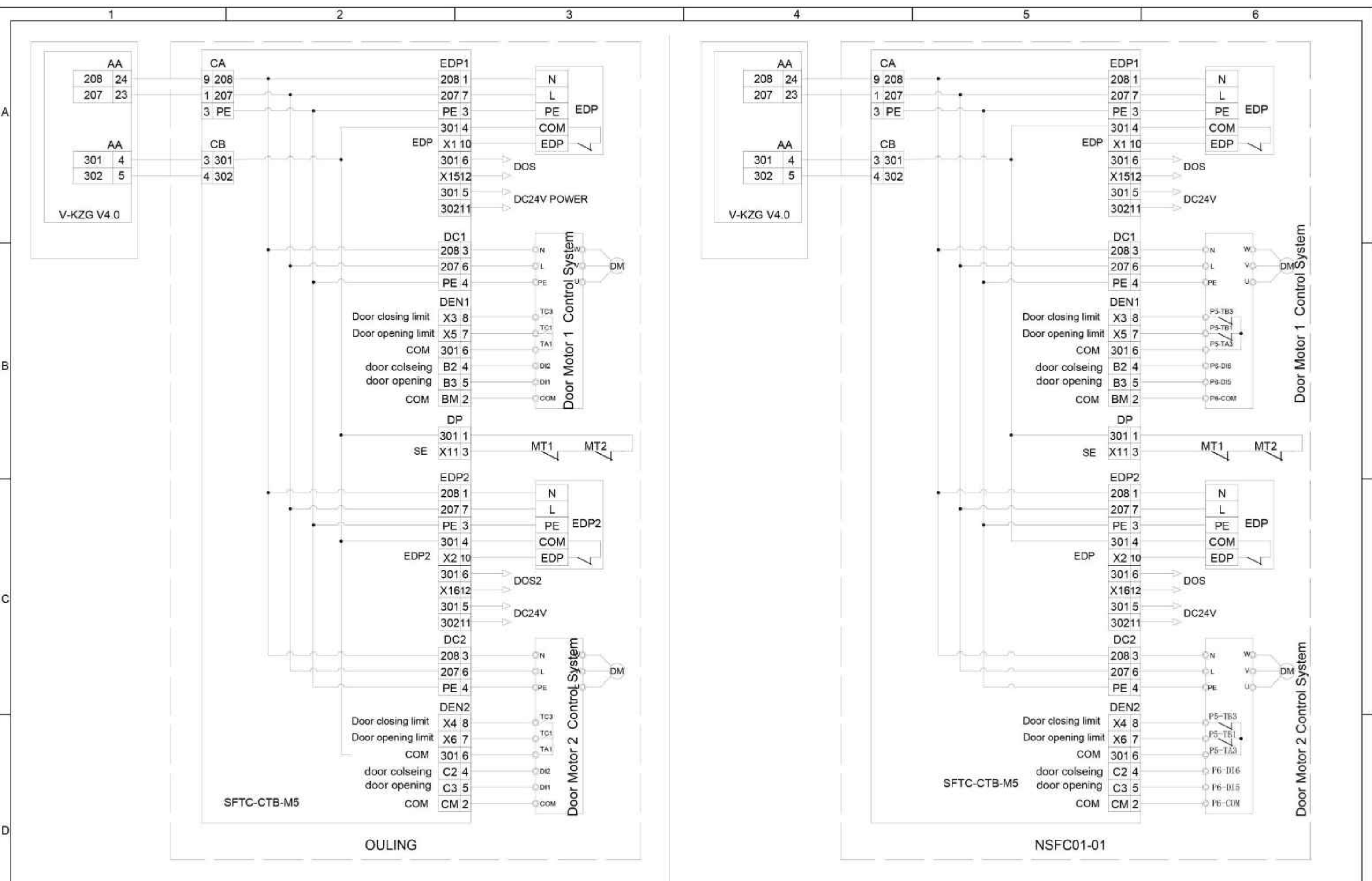
Hand sliding door butt joint (without interface board)



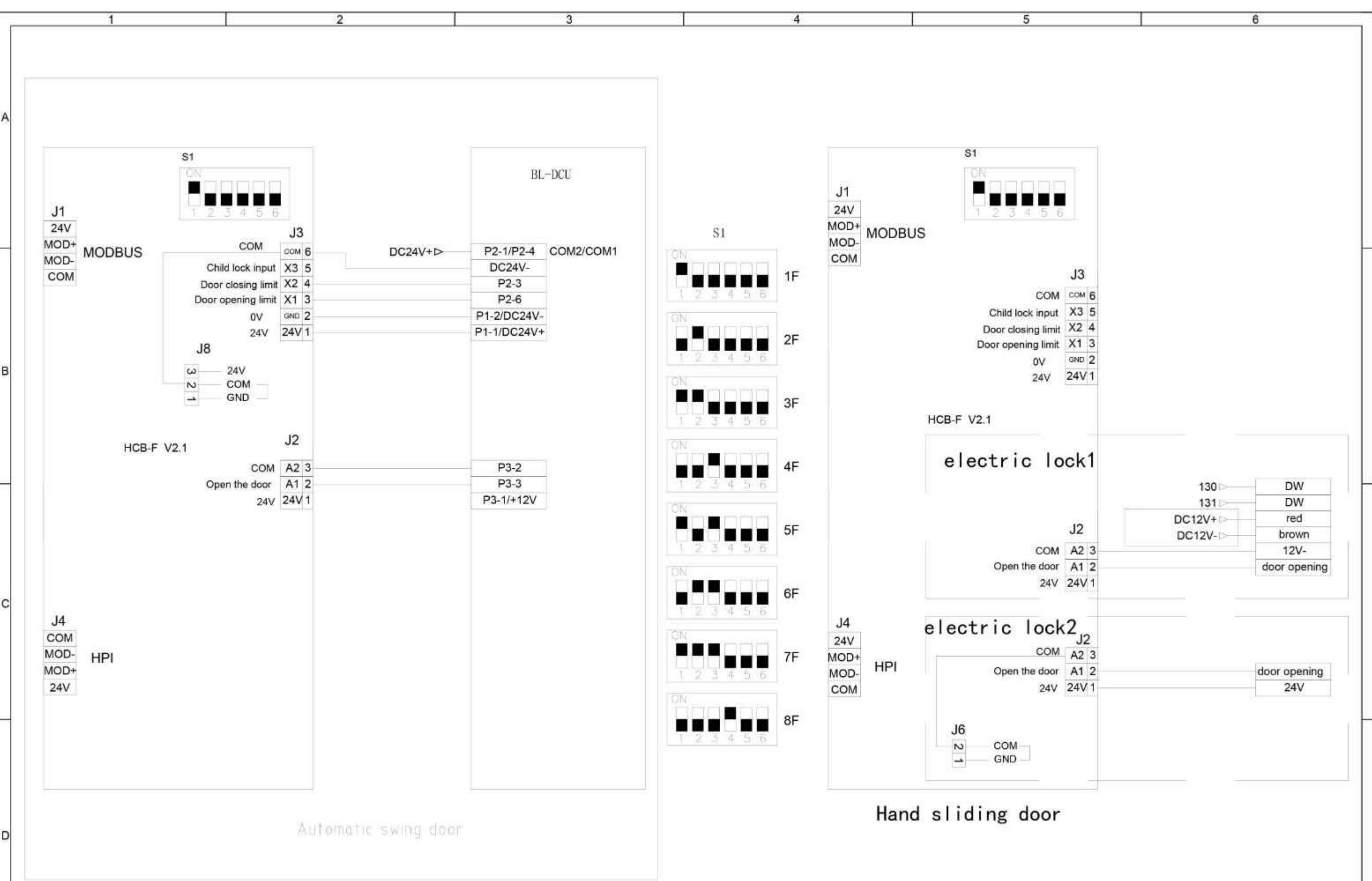
设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 14 页	Layout of Hand Sliding Door Interface
审核	祝通广	日期	2023.02.06	LE800/20221216	共 25 页	
批准	于春燕	日期	2023.02.06			

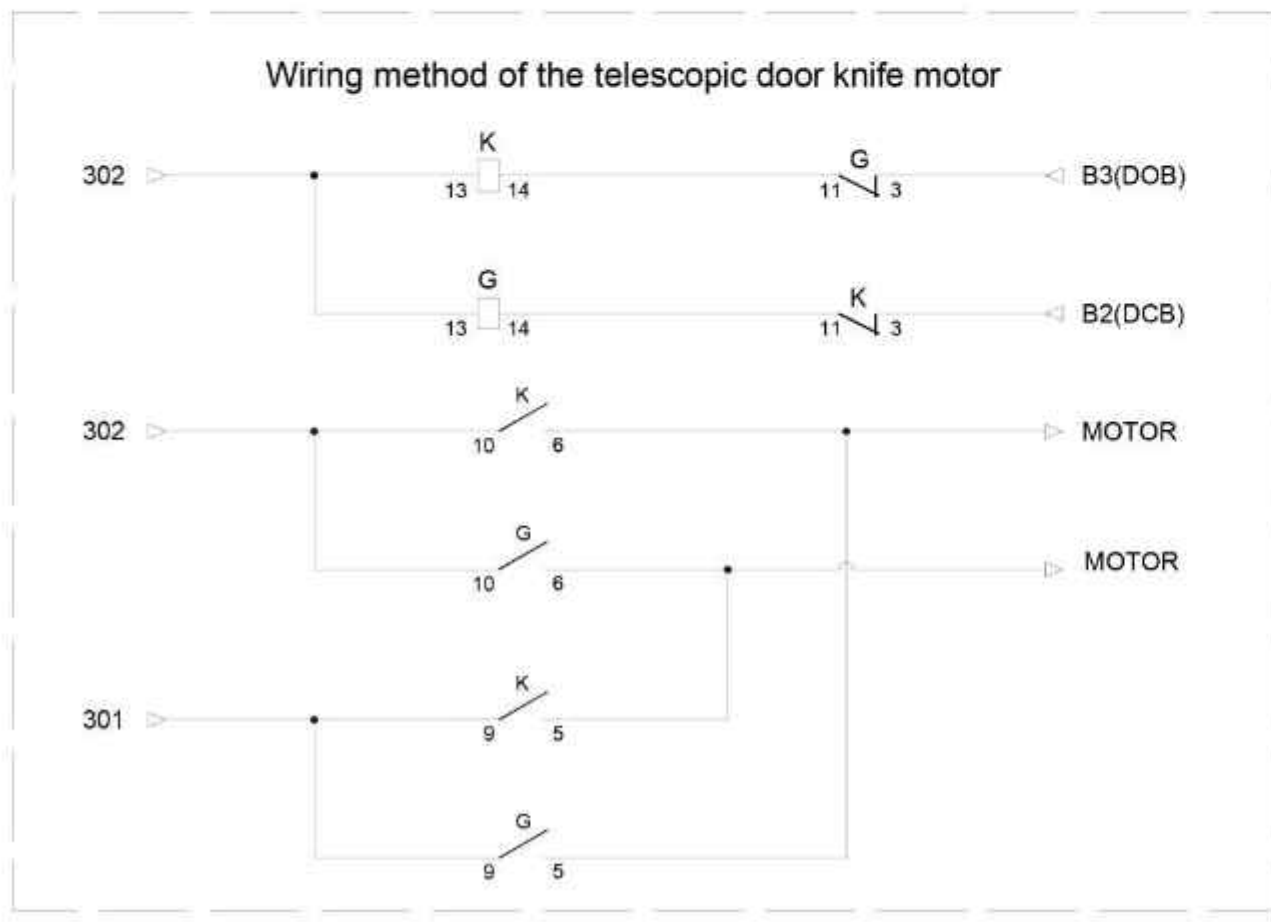
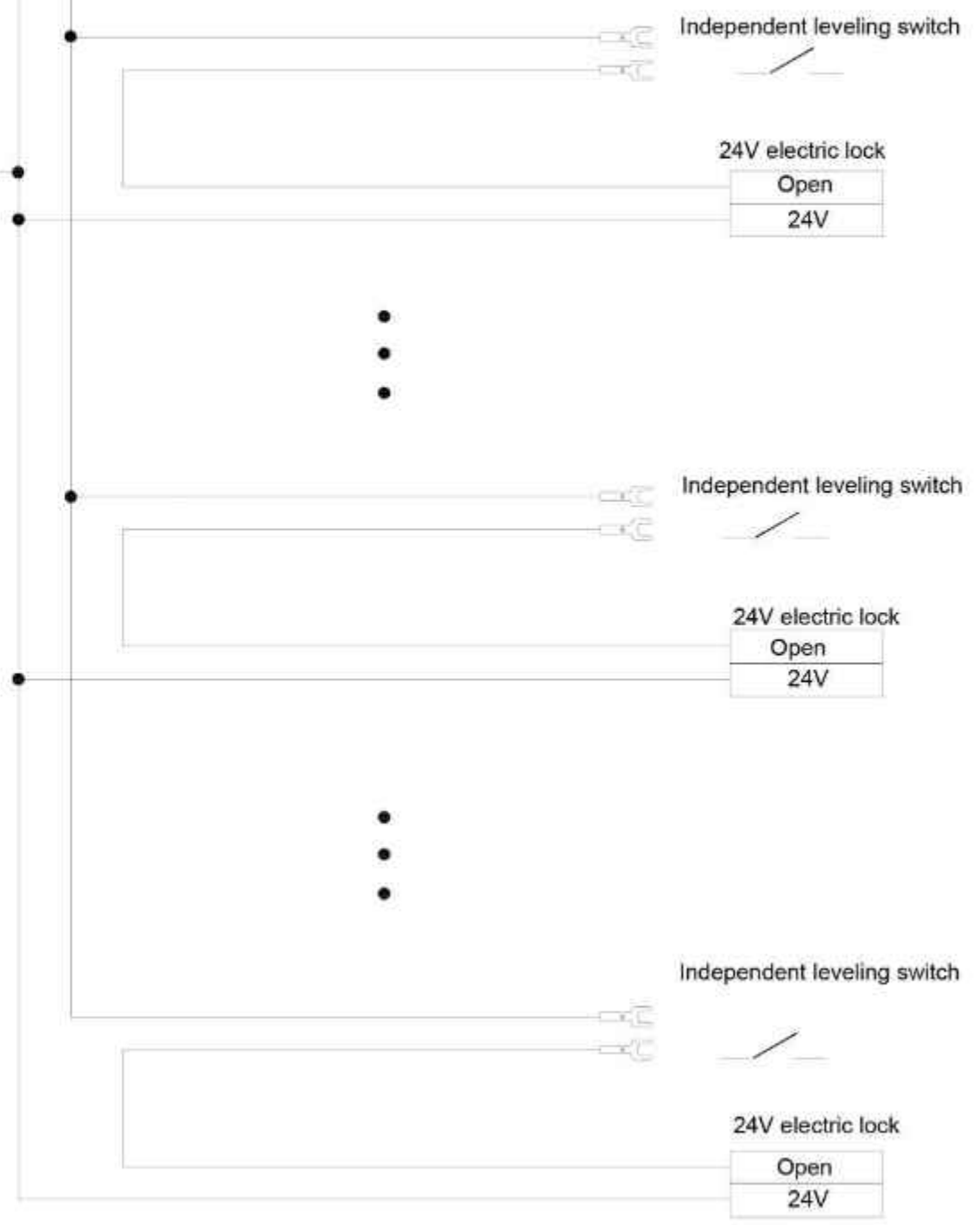
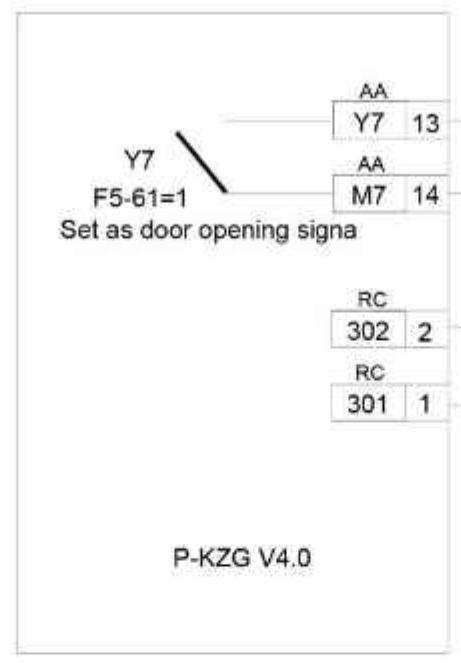


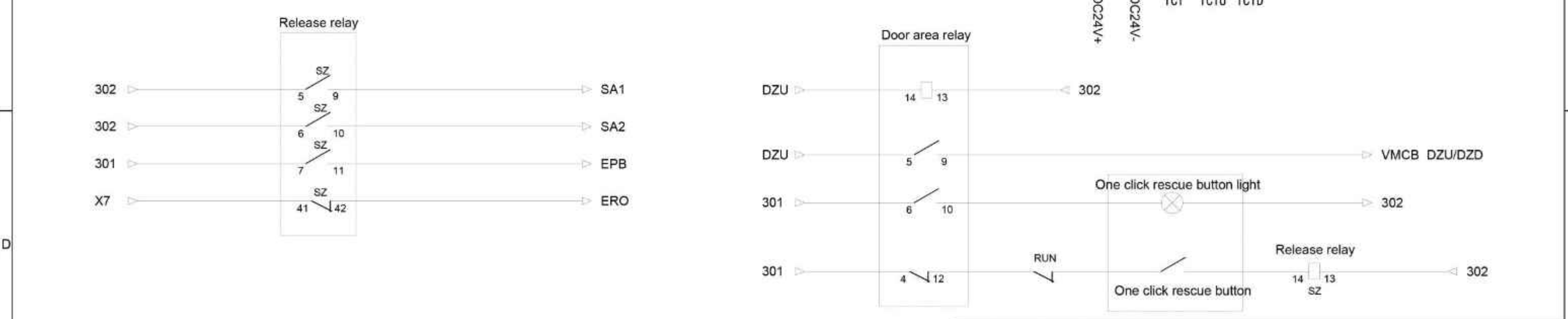
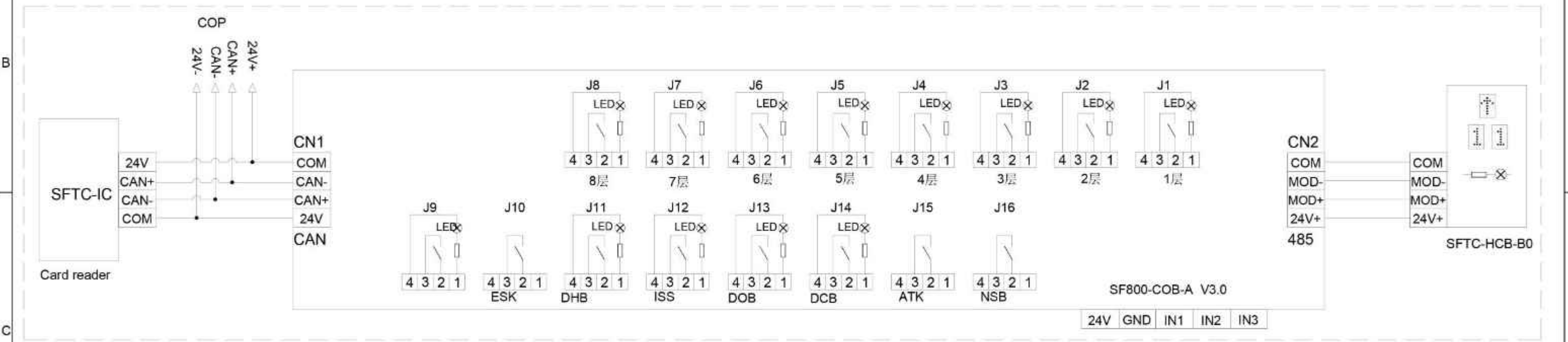
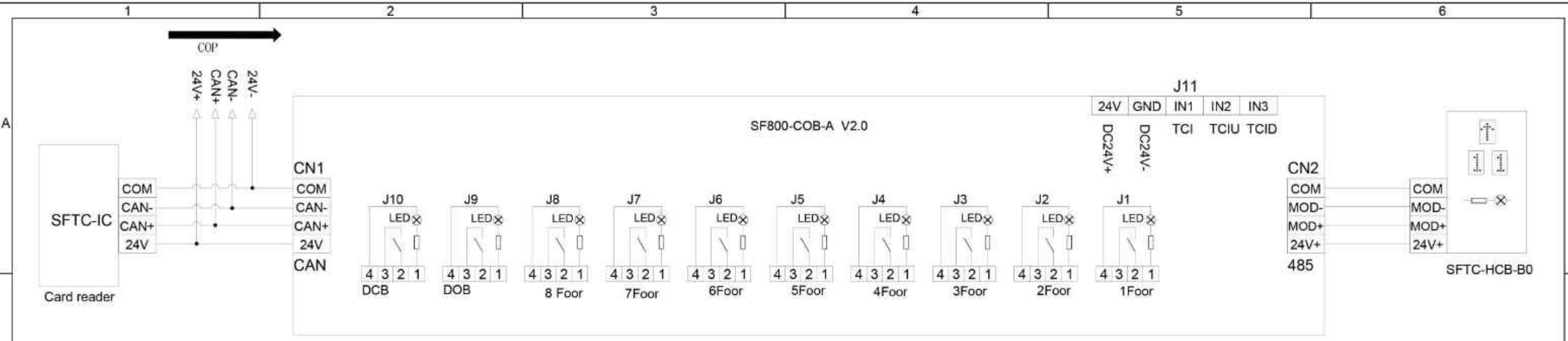


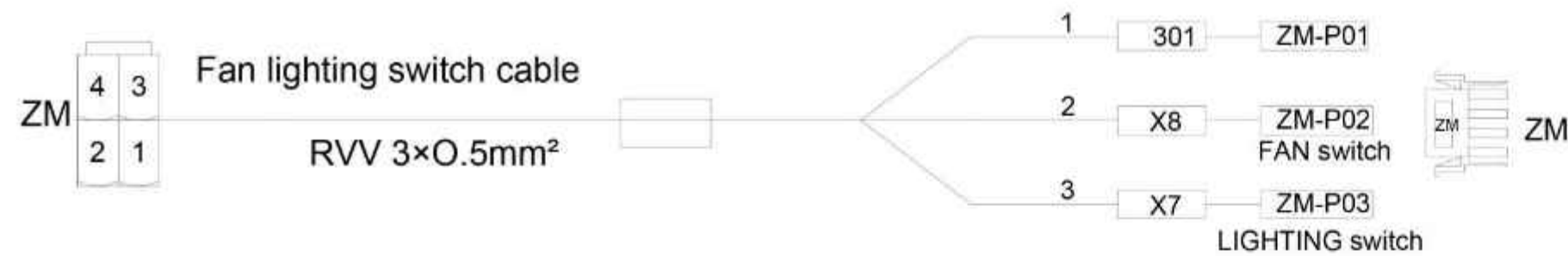


设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 17 页	Door machine wiring diagram
审核	祝通广	日期	2023.02.06			
批准	于春燕	日期	2023.02.06	LE800/20221216	共 25 页	

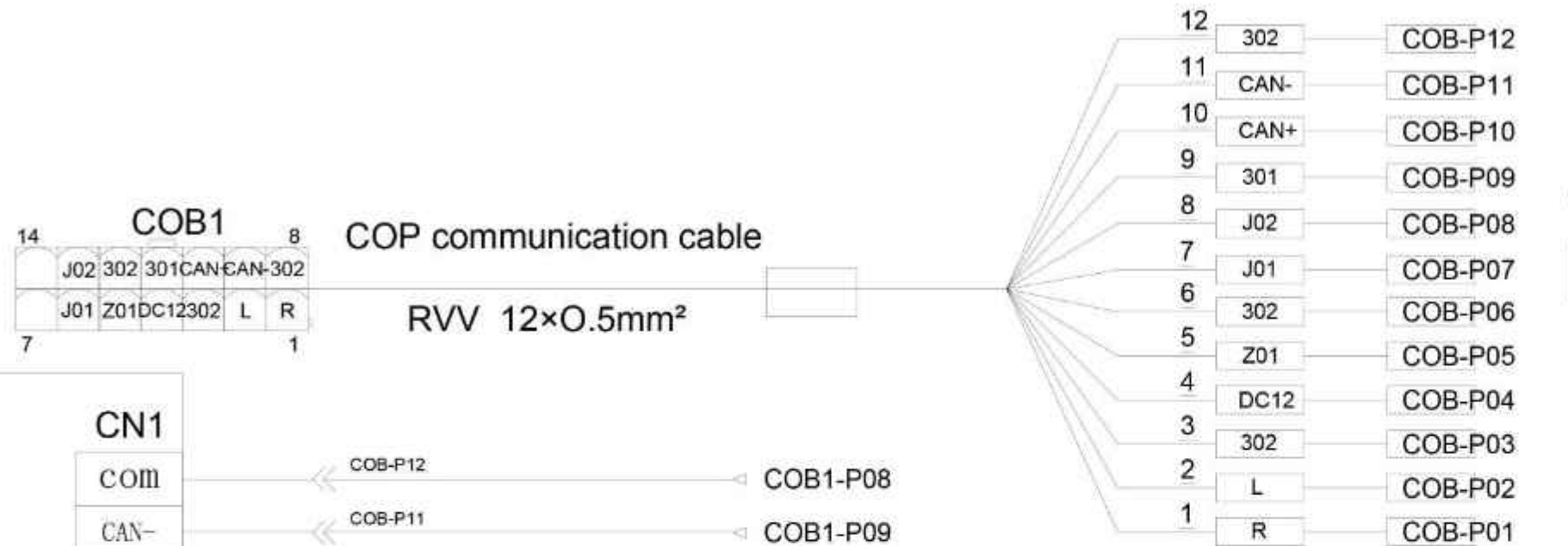




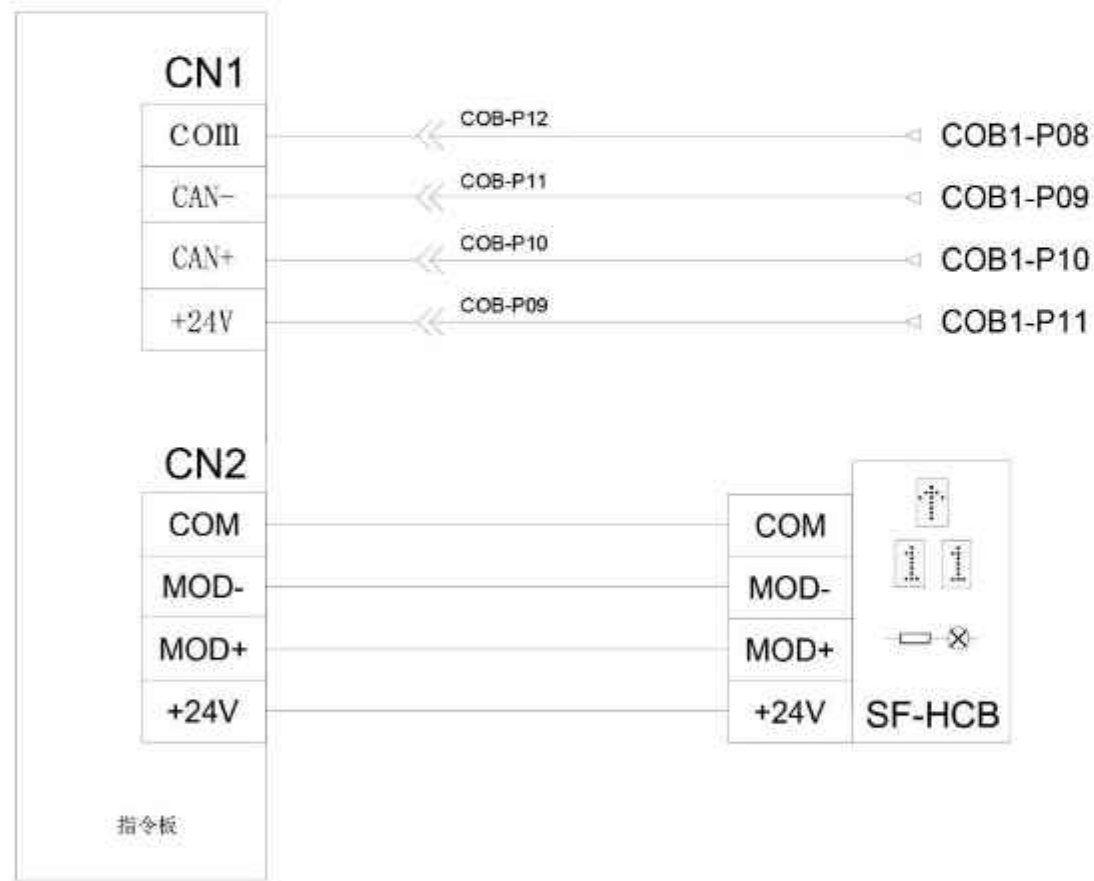




ZM AMP 1-480700-0 (3P)
model:350218-3

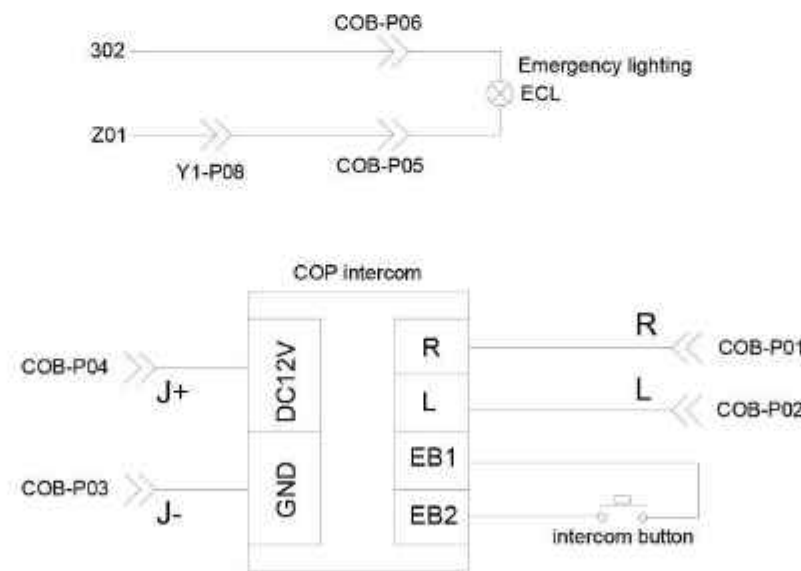


COB AMP 1-480708-0 (12P)
model:350218-3



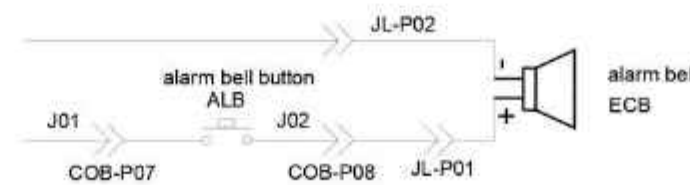
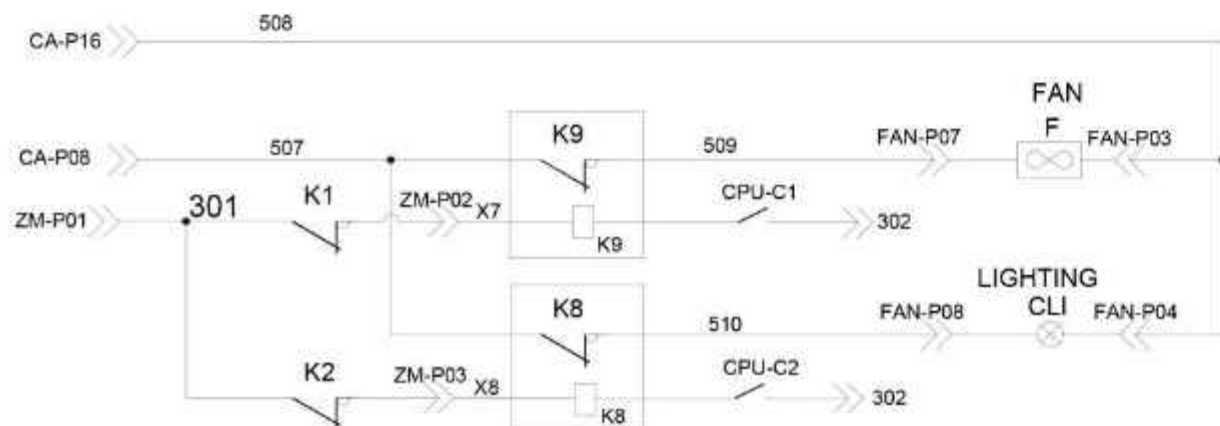
connector	Number	CODE	Meaning
ZM AMP-480701	1	301	+24V
	2	X8	FAN SW
	3	X7	LIGHT SW

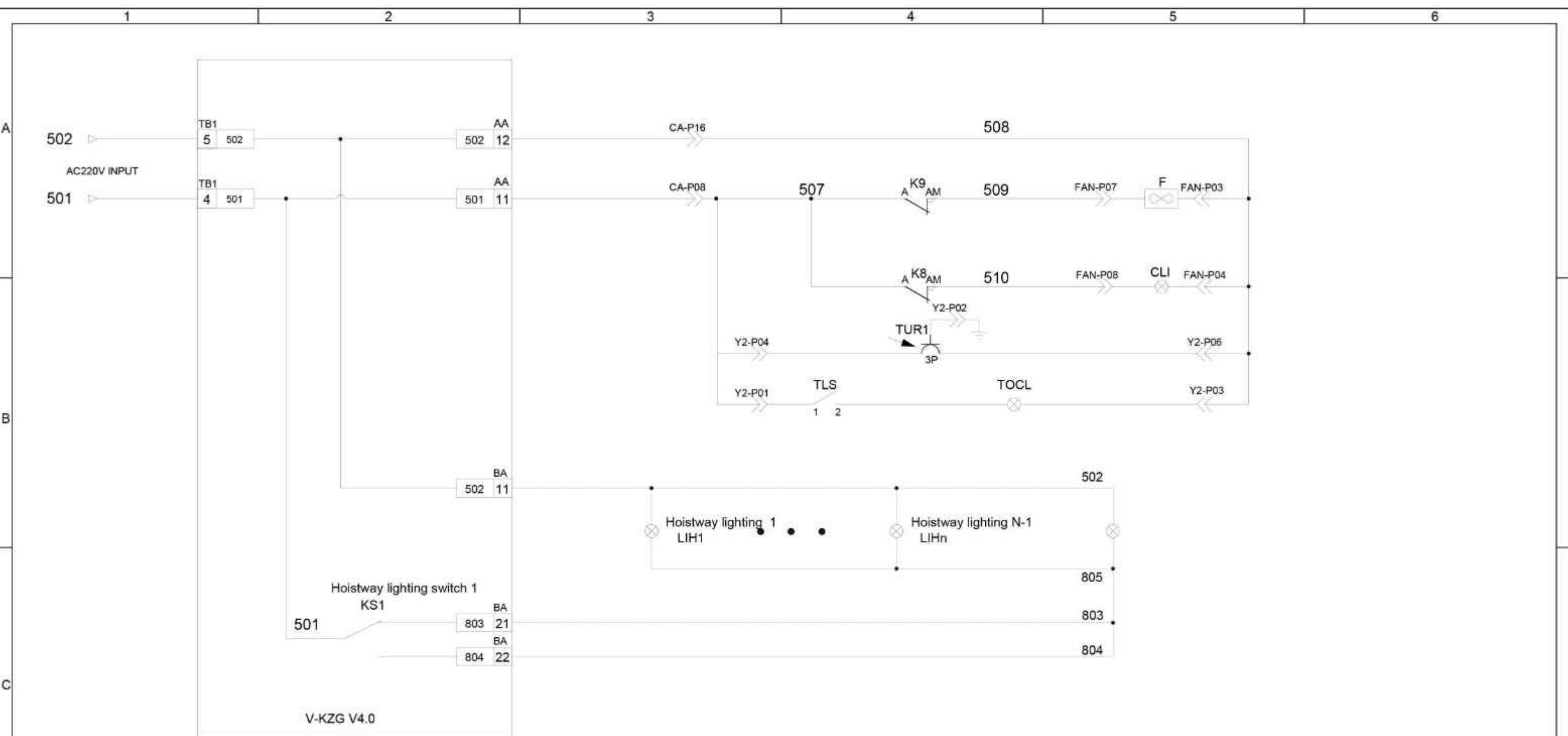
ZM AMP 1-480701-0 (3P)
model:350536-3



CONNECTOR	Number	CODE	Meaning
COB AMP-480709	1	R	Intercom signal
	2	L	Intercom signal
	3	302	POWER
	4	DC12V	POWER
	5	Z01	Emergency lights
	6	302	Emergency lights
	7	J01	Alarm button
	8	J02	Alarm button
	9	301	+24V
	10	CAN+	CAN+
	11	CAN-	CAN-
	12	302	0V

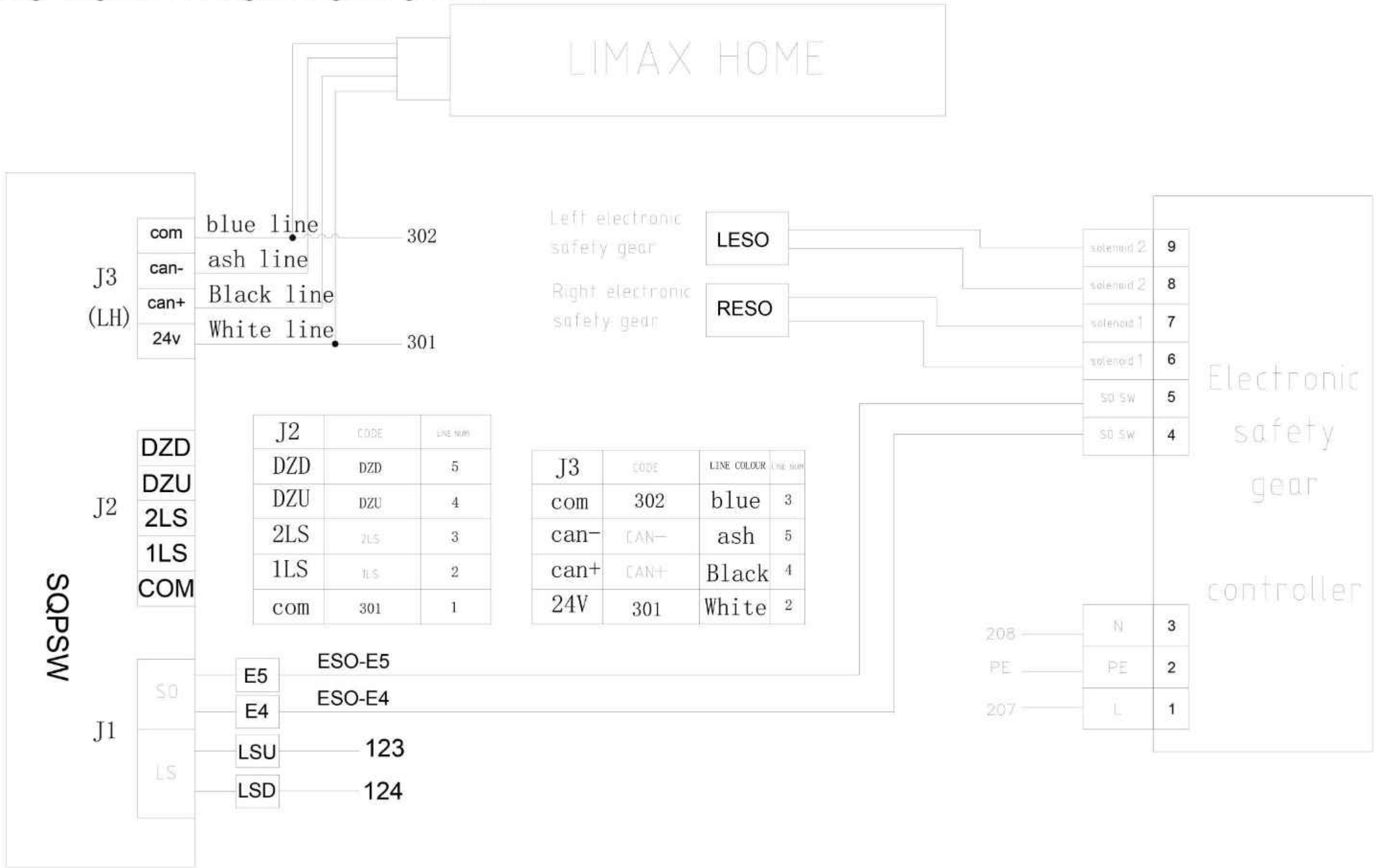
COB AMP 1-480709-0 (12P)
model:350536-3





Hand sliding door lighting power circuit diagram

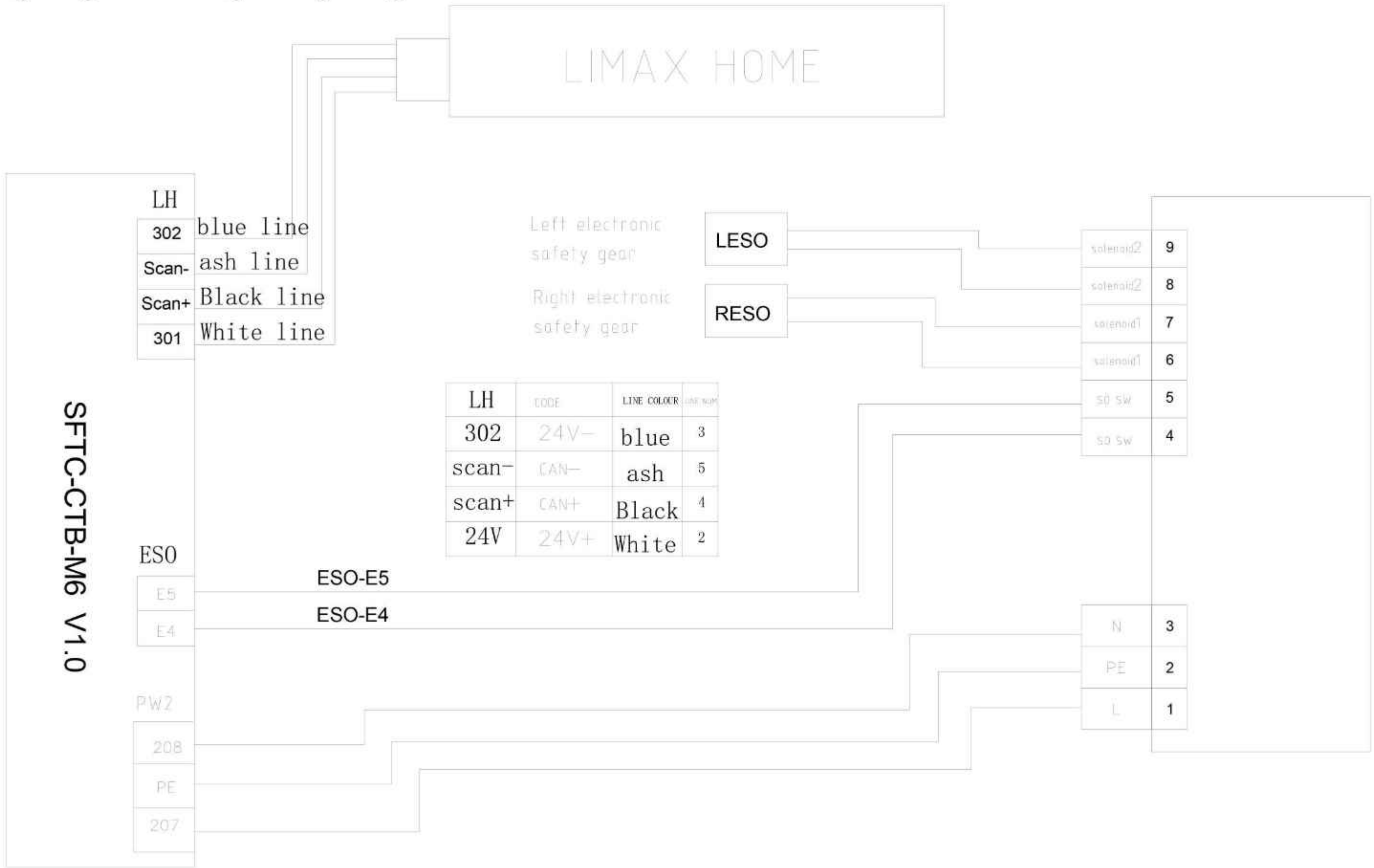
Wiring diagram of magnetic grating ruler



J2	CODE	LINE NUM
DZD	DZD	5
DZU	DZU	4
2LS	2LS	3
1LS	1LS	2
COM	301	1

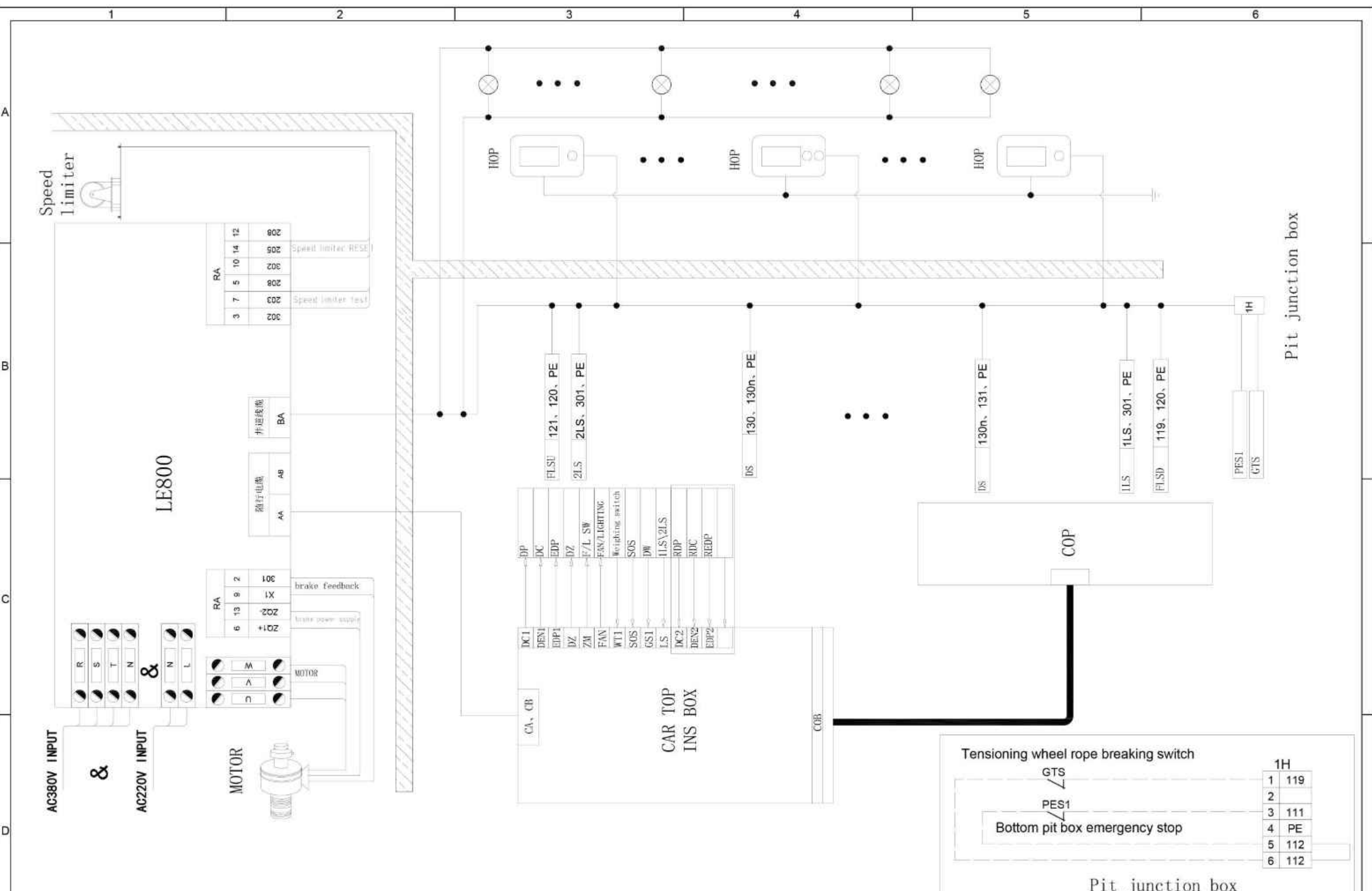
J3	CODE	LINE COLOUR	LINE NUM
com	302	blue	3
can-	CAN-	ash	5
can+	CAN+	Black	4
24V	301	White	2

Wiring diagram of magnetic grating ruler

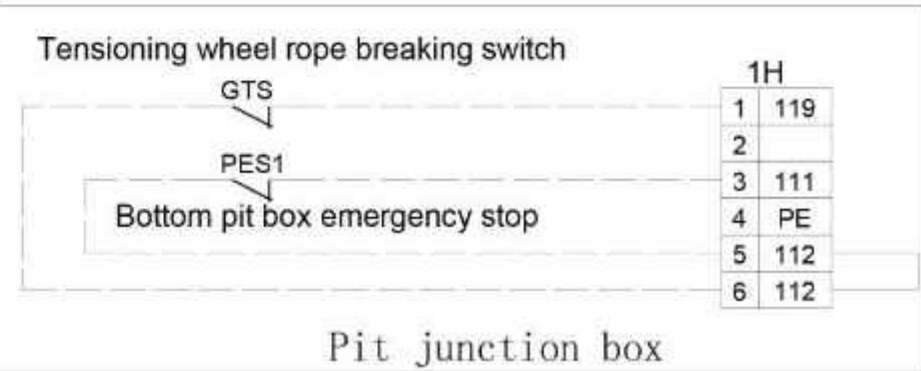


LH	CODE	LINE COLOUR	LINE NUM
302	24V-	blue	3
scan-	CAN-	ash	5
scan+	CAN+	Black	4
24V	24V+	White	2

SFTC-CTB-M6 V1.0



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设计	梁本衡	日期	2023.02.06	LEGEND CONTROLS	第 25 页	Cable wiring assembly diagram
审核	祝通广	日期	2023.02.06	LE800/20221216	共 25 页	
批准	于春燕	日期	2023.02.06			



support@legendcontrols.com
www.legendcontrols.com

