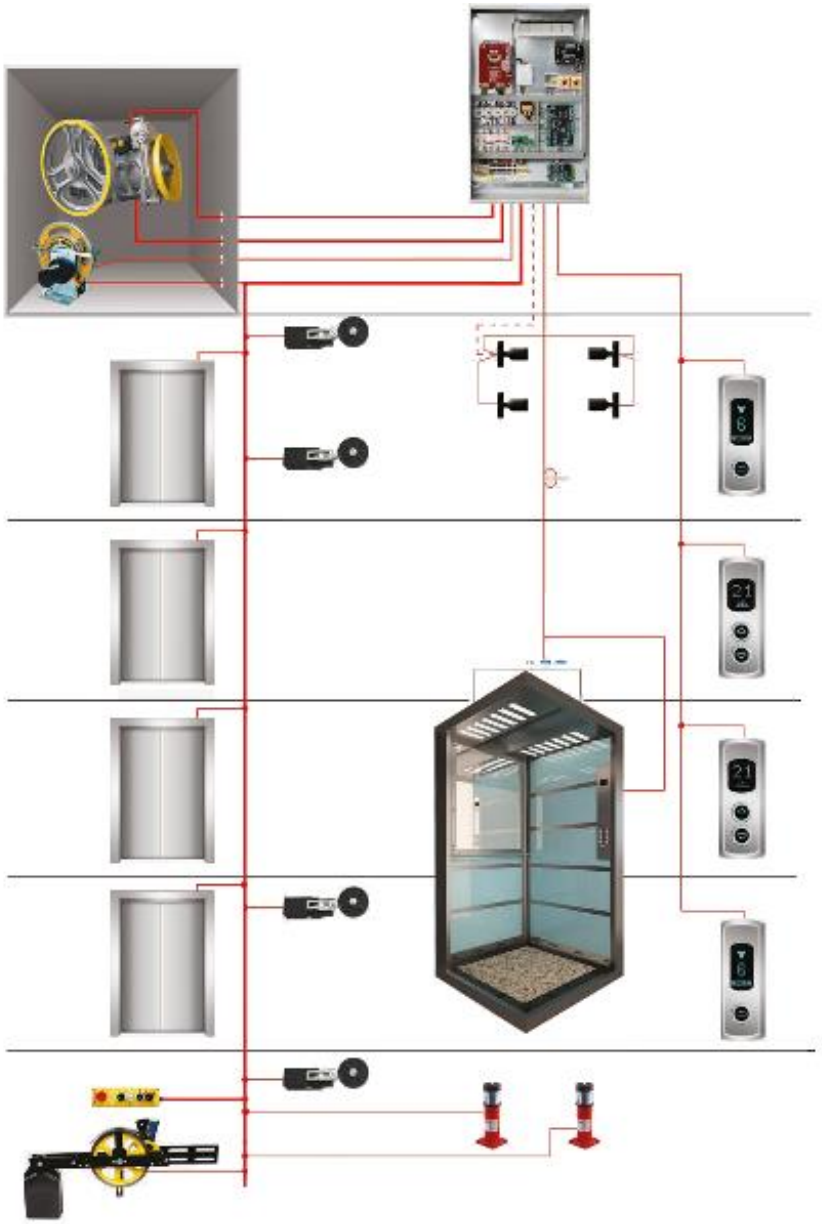
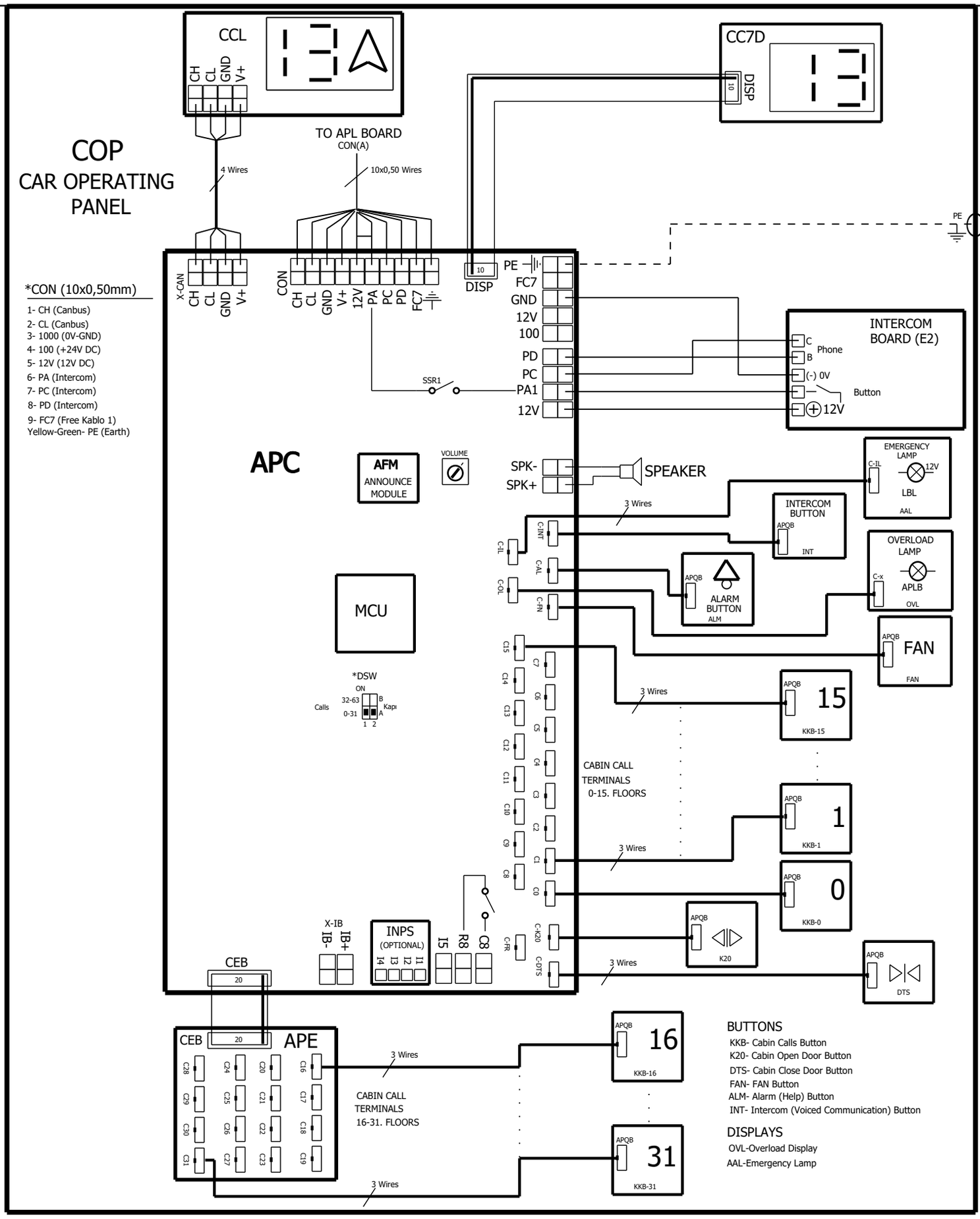
AYBEY ELEKTRONİK



PRE-WIRING INSTALLATION DIAGRAM

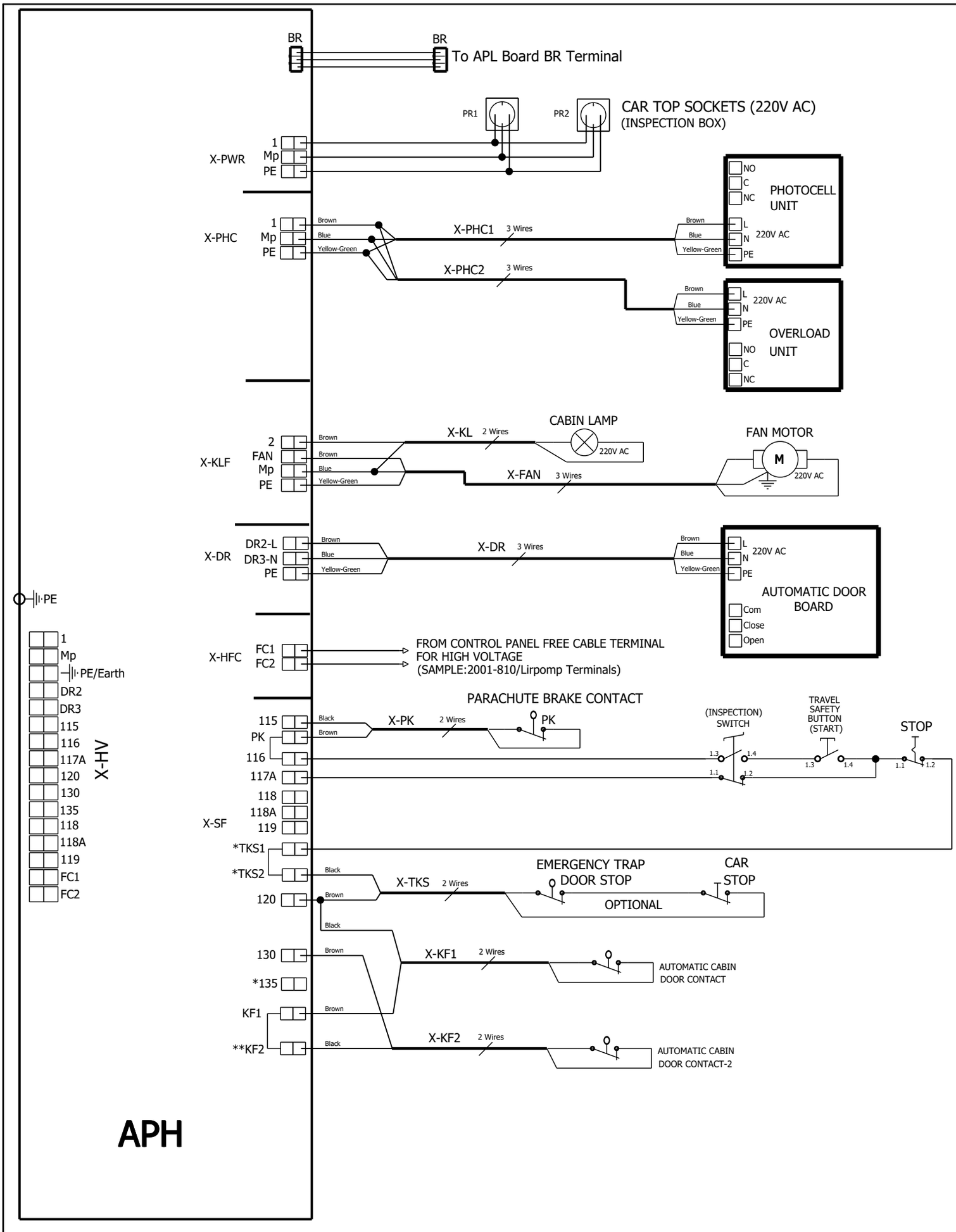
(2016) Version 1.0



PROGRAMMABLE OUTPUT DEFINE		
APC BOARD INPUT TERMINALS	INPS BOARD INPUT TERMINALS	AC BOARD P7- INPUT DEFINE
I5	-	K13
-	I1	K14
-	I2	K15
-	I3	K16
-	I4	-

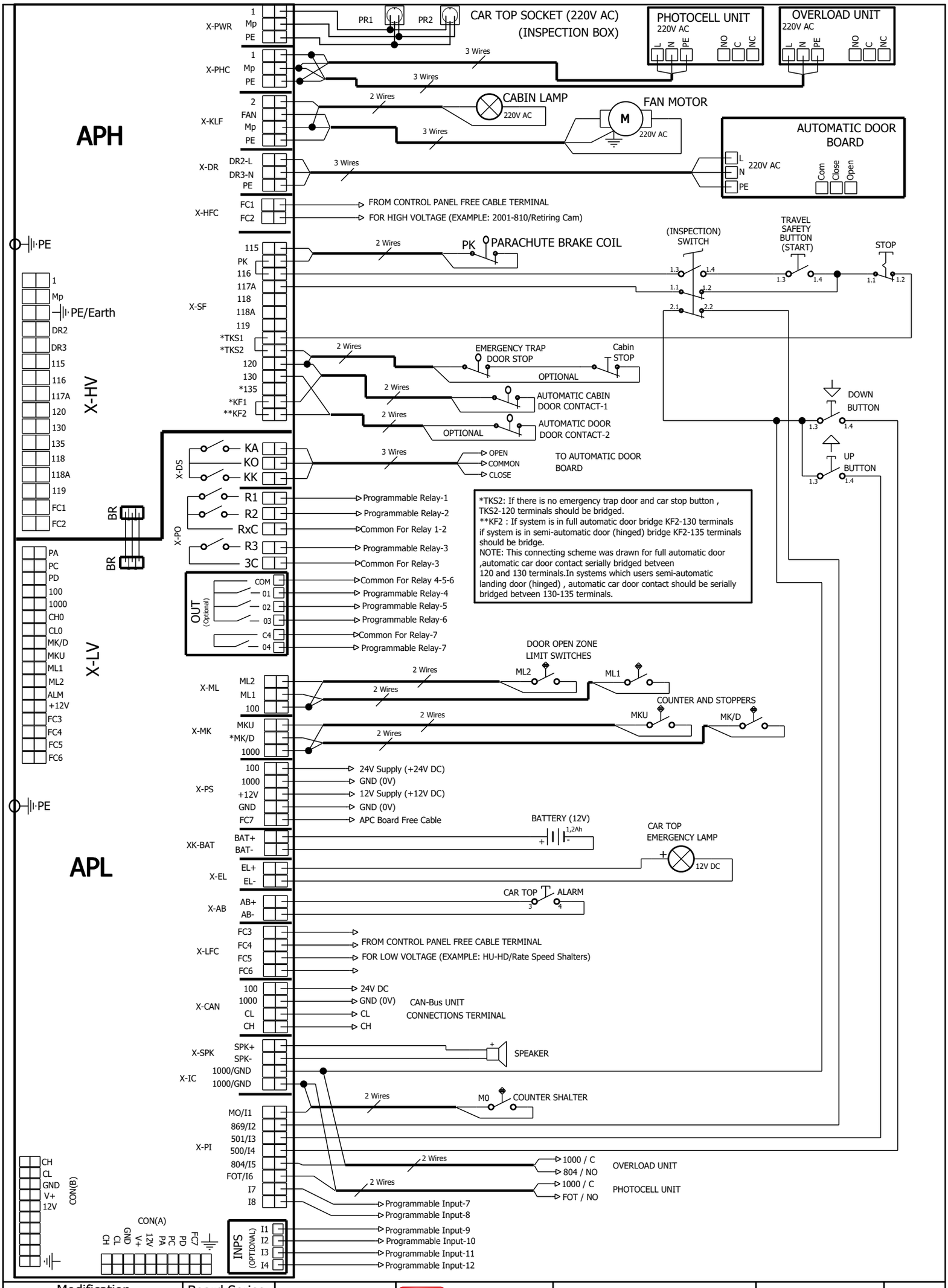
PROGRAMMABLE OUTPUT TABLE	
APC BOARD OUTPUT TERMINAL	AC BOARD P6- OUTPUT DEFINE
R8	R8

Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com	APC	Page Number	1e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					

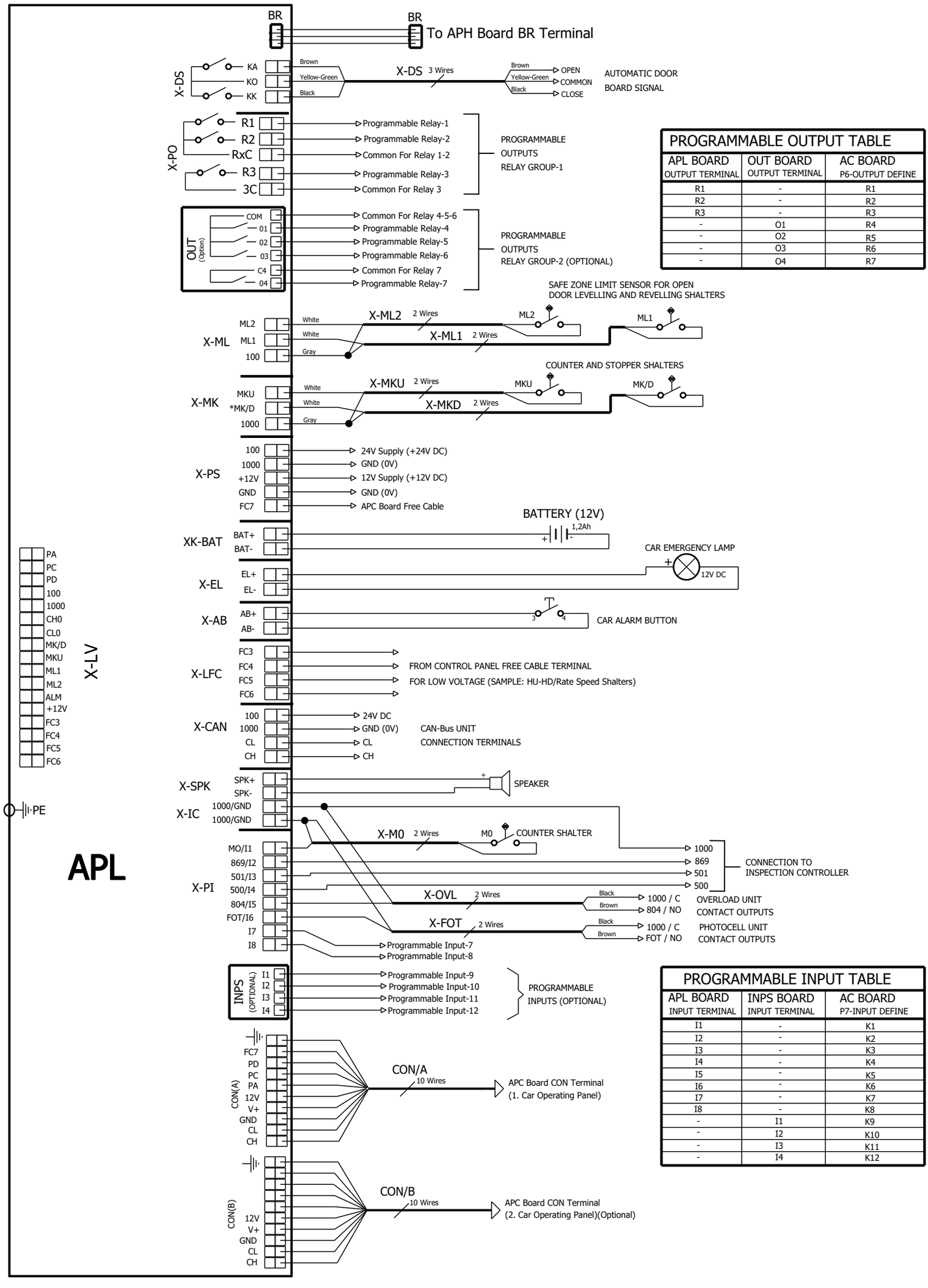


*TKS2: If there is no emergency trap door and car stop button , TKS2-120 terminals should be bridged.
**KF2 : If system is in full automatic door bridge KF2-130 terminals if system is in semi-automatic door (hinged) bridge KF2-135 terminals should be bridge.
NOTE: This connecting scheme was drawn for full automatic door , automatic car door contact serially bridged betveen 120 and 130 terminals.In systems which users semi-automatic landing door (hinged) , automatic car door contact should be serially bridged betveen 130-135 terminals.

Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com	APH	Page Number	2e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					



Modification		Board Series				
Date	13.02.2017	Project No		AYBEY ELEKTRONİK www.aybey.com	REV-CON	Page Number 4e
Draw	H.USTA	Form No				Number of Pages 27



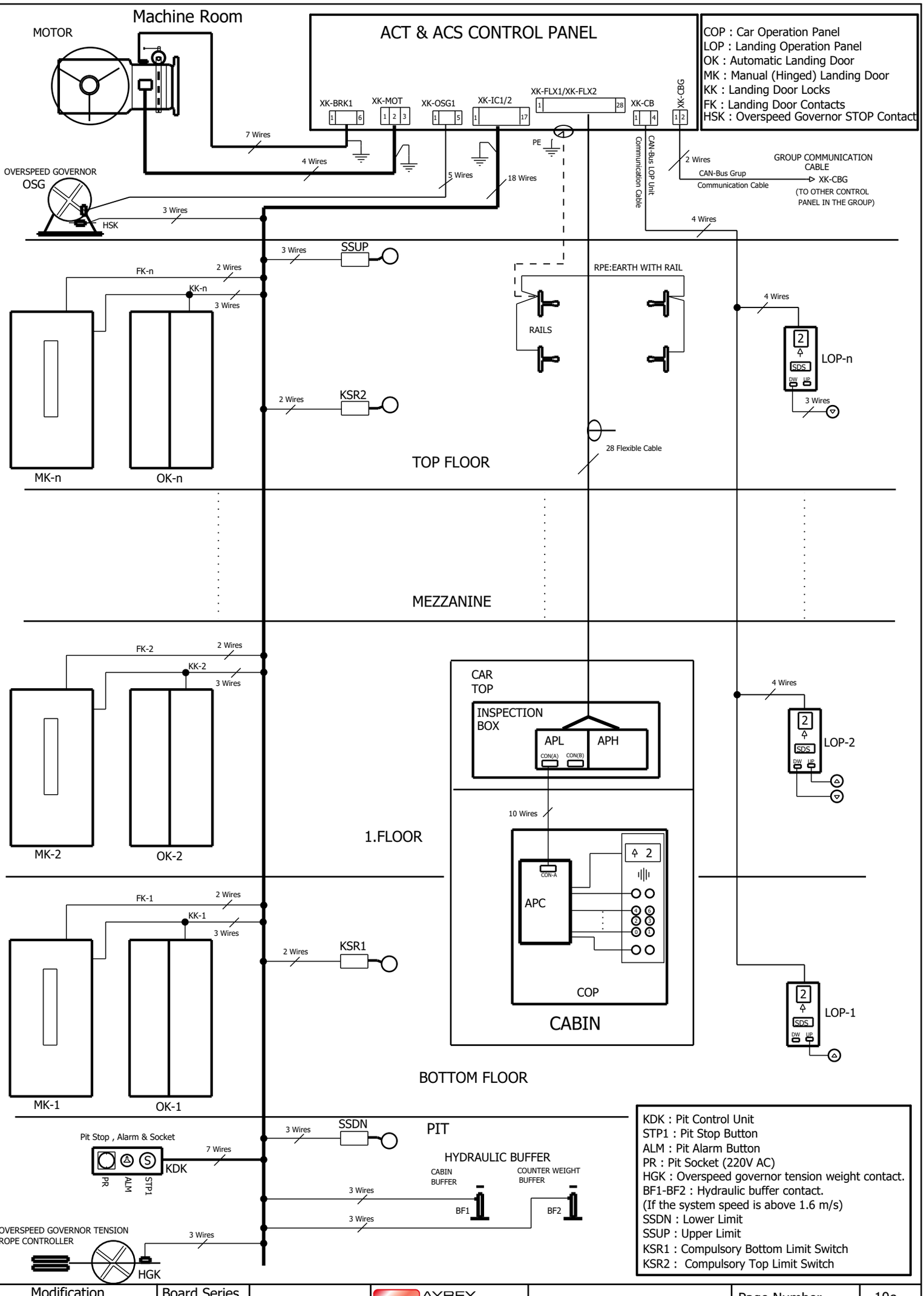
PROGRAMMABLE OUTPUT TABLE

APL BOARD OUTPUT TERMINAL	OUT BOARD OUTPUT TERMINAL	AC BOARD P6-OUTPUT DEFINE
R1	-	R1
R2	-	R2
R3	-	R3
-	O1	R4
-	O2	R5
-	O3	R6
-	O4	R7

PROGRAMMABLE INPUT TABLE

APL BOARD INPUT TERMINAL	INPS BOARD INPUT TERMINAL	AC BOARD P7-INPUT DEFINE
I1	-	K1
I2	-	K2
I3	-	K3
I4	-	K4
I5	-	K5
I6	-	K6
I7	-	K7
I8	-	K8
-	I1	K9
-	I2	K10
-	I3	K11
-	I4	K12

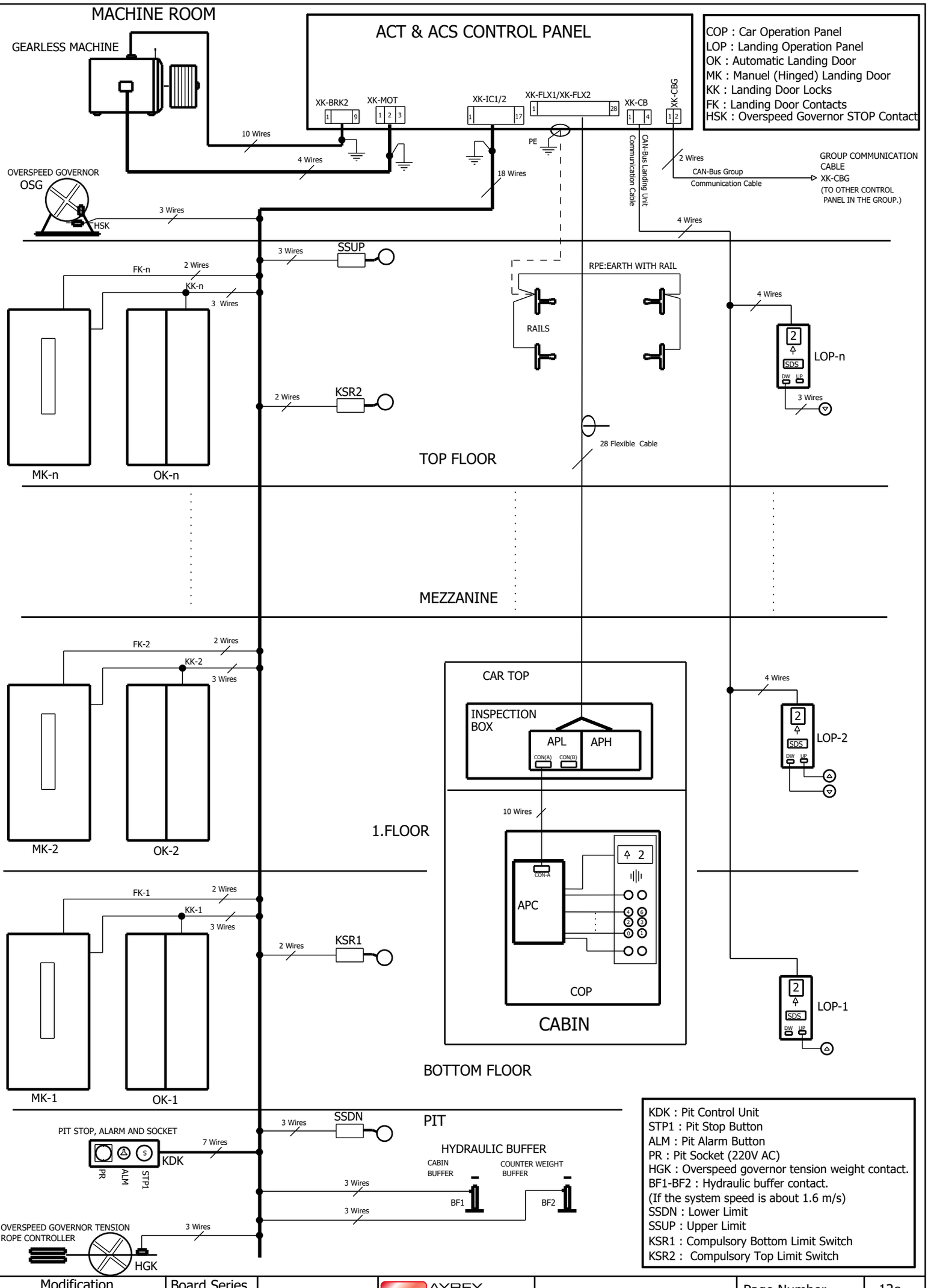
Modification		Board Series		APL	Page Number	3e
Date	13.02.2017	Project No	AYBEY ELEKTRONİK www.aybey.com		Number of Pages	27
Draw	H.USTA	Form No				



COP : Car Operation Panel
LOP : Landing Operation Panel
OK : Automatic Landing Door
MK : Manual (Hinged) Landing Door
KK : Landing Door Locks
FK : Landing Door Contacts
HSK : Overspeed Governor STOP Contact

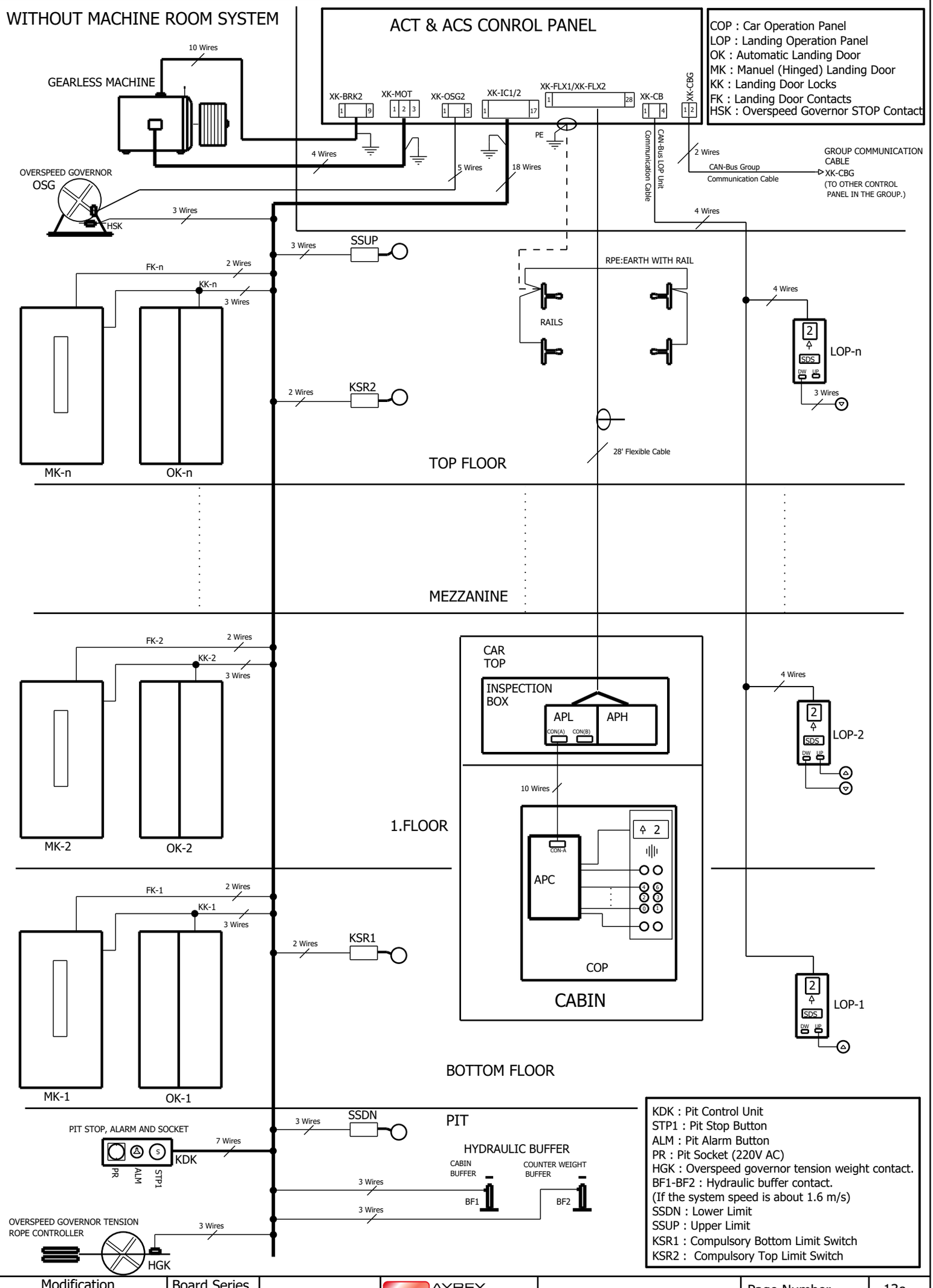
KDK : Pit Control Unit
STP1 : Pit Stop Button
ALM : Pit Alarm Button
PR : Pit Socket (220V AC)
HGK : Overspeed governor tension weight contact.
BF1-BF2 : Hydraulic buffer contact.
(If the system speed is above 1.6 m/s)
SSDN : Lower Limit
SSUP : Upper Limit
KSR1 : Compulsory Bottom Limit Switch
KSR2 : Compulsory Top Limit Switch

Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com		Page Number	10e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					

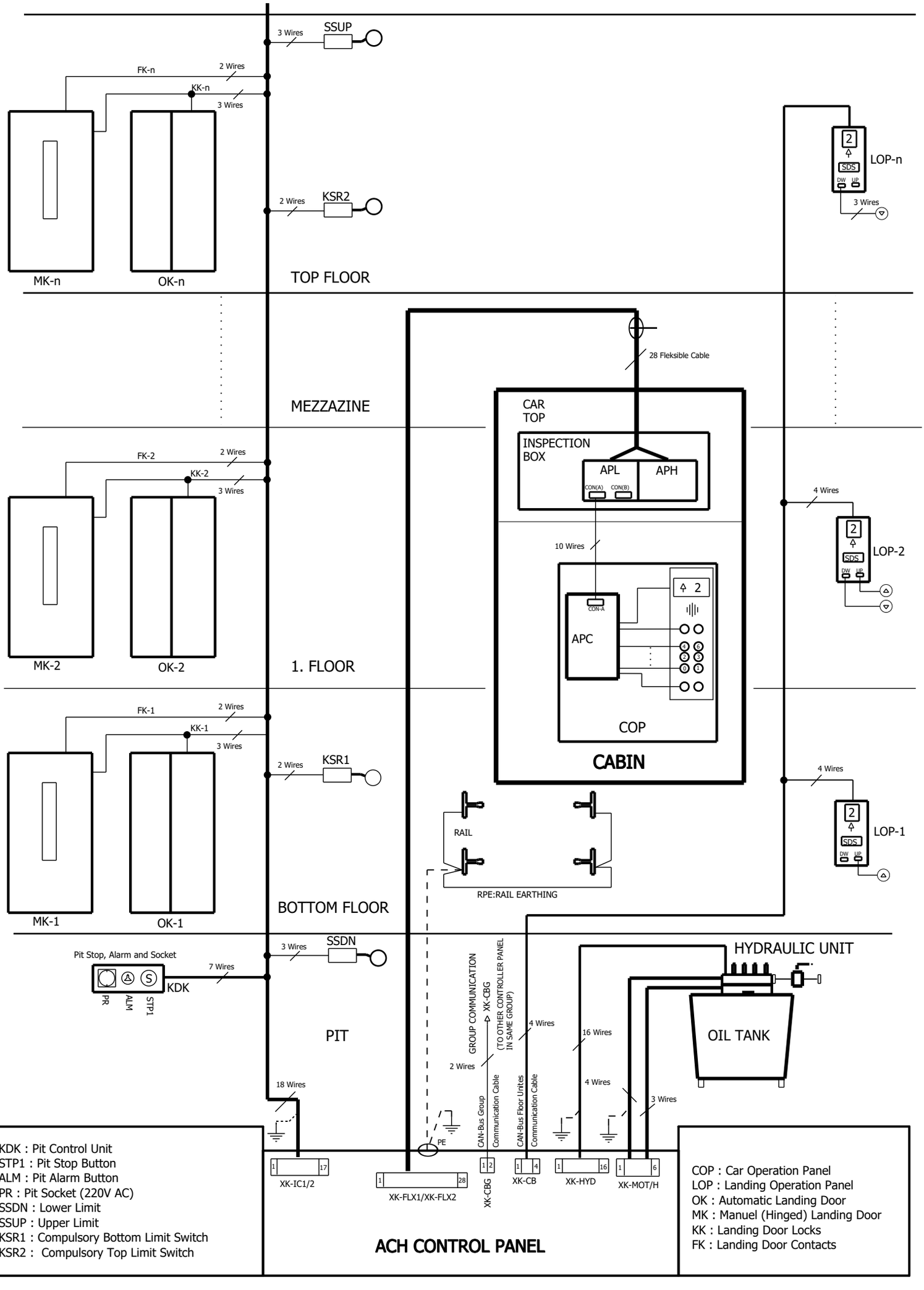


Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com		Page Number	12e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					

WITHOUT MACHINE ROOM SYSTEM



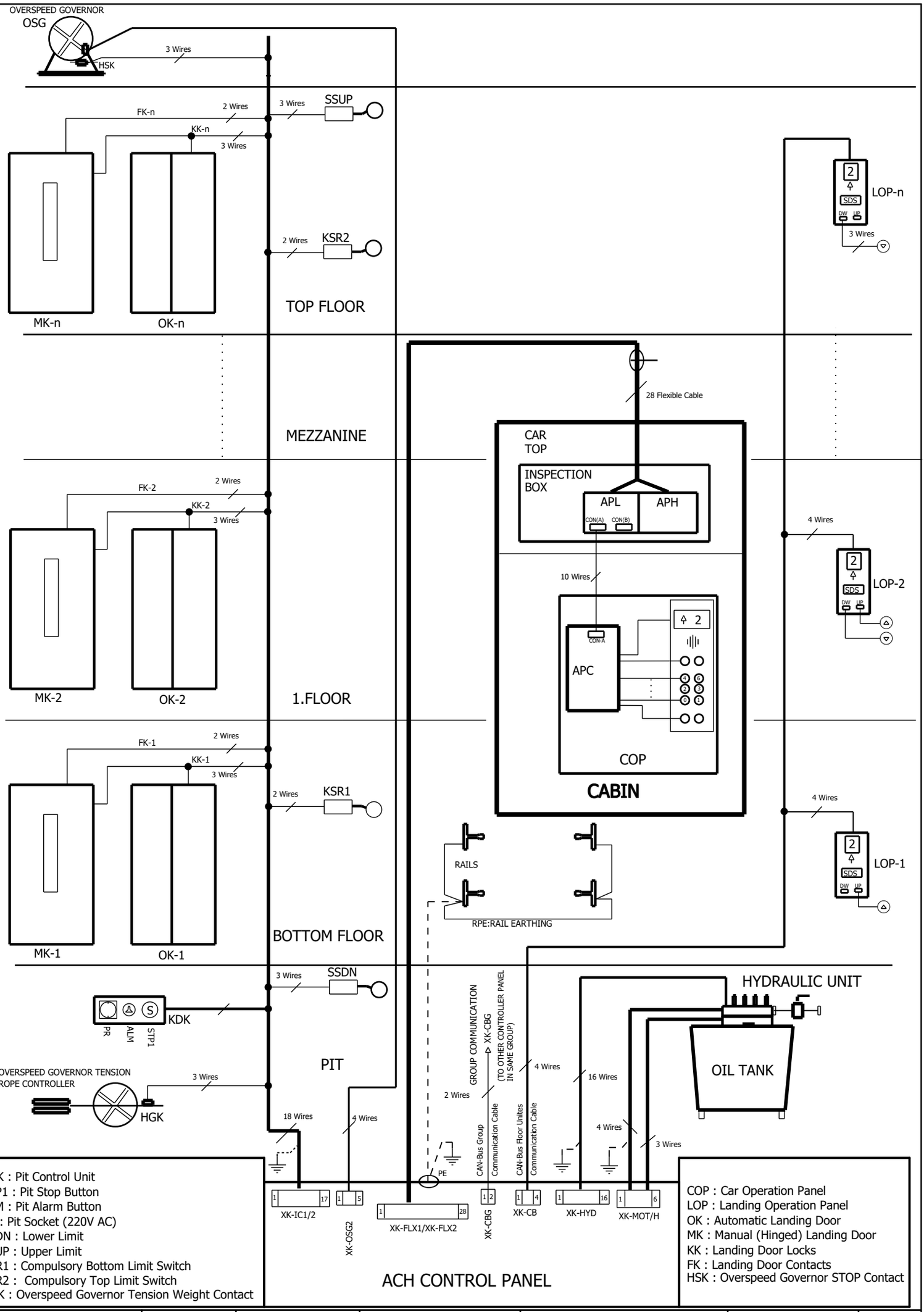
Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com		Page Number	13e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					



KDK : Pit Control Unit
STP1 : Pit Stop Button
ALM : Pit Alarm Button
PR : Pit Socket (220V AC)
SSDN : Lower Limit
SSUP : Upper Limit
KSR1 : Compulsory Bottom Limit Switch
KSR2 : Compulsory Top Limit Switch

COP : Car Operation Panel
LOP : Landing Operation Panel
OK : Automatic Landing Door
MK : Manuel (Hinged) Landing Door
KK : Landing Door Locks
FK : Landing Door Contacts

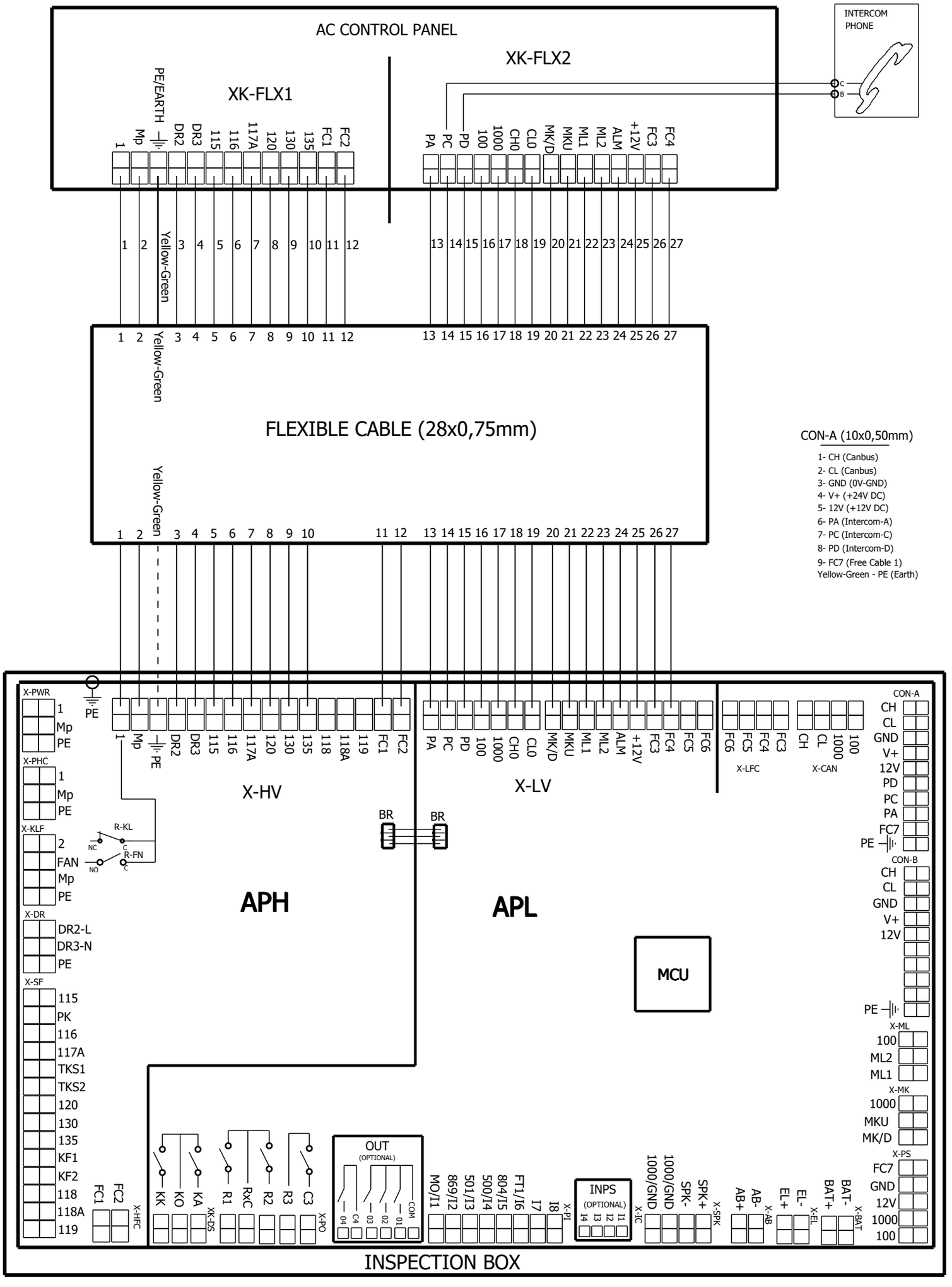
Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com		Page Number	7e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					



KDK : Pit Control Unit
STP1 : Pit Stop Button
ALM : Pit Alarm Button
PR : Pit Socket (220V AC)
SSDN : Lower Limit
SSUP : Upper Limit
KSR1 : Compulsory Bottom Limit Switch
KSR2 : Compulsory Top Limit Switch
HGK : Overspeed Governor Tension Weight Contact

COP : Car Operation Panel
LOP : Landing Operation Panel
OK : Automatic Landing Door
MK : Manual (Hinged) Landing Door
KK : Landing Door Locks
FK : Landing Door Contacts
HSK : Overspeed Governor STOP Contact

Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com		Page Number	9e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					



Modification		Board Series		AYBEY ELEKTRONİK www.aybey.com	APH-APL Flexible Cable	Page Number	6e
Date	13.02.2017	Project No				Number of Pages	27
Draw	H.USTA	Form No					

WELL INSTALLATION (XK-IC) CODES&CABLES TERMINAL

Terminal Code	FK	Landing door contacts (Manual/hinged doors).
CABLE 2x0,75mm	Black	Connected to 120-130 safety circuit serially. (Only used in manual/hinged door system)
	Brown	

Terminal Code	KK	Landing door lock.
CABLE 3x0,75mm	Black	Connected to 130-140 safety circuit serially in automatic door system.
	Brown	Connected to 135-140 safety circuit serially in manual door system.
	Yellow-Green	Earthing Cable.

Terminal Code	SSUP	Upper limit
CABLE 3x0,75mm	Black	Connected to 113-114 safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	SSDN	Lower limit
CABLE 3x0,75mm	Black	Connected to 113-114 safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	KSR2	End of fast speed way (UP)	
CABLE 2x0,75mm	Black	1000	Connected to 1000-818 circuit.
	Brown	818	

Terminal Code	KSR1	End of fast speed way (DOWN)	
CABLE 2x0,75mm	Black	1000	Connected to 1000-817 circuit.
	Brown	817	

Terminal Code	HGK	Overspeed governor tension rope (Weight control) control contact.
CABLE 3x0,75mm	Black	110-111 Connected to safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	HSK	Overspeed governor safety (Stop) contact.
CABLE 3x0,75mm	Black	112-113 Connected to safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	BF1	Pit buffer contact (If the system speed is about 1.6m/s).
CABLE 3x0,75mm	Black	113-114 Connected to safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	BF2	Pit conterweight buffer contact (If the system speed is about 1.6m/s).
CABLE 3x0,75mm	Black	113-114 Connected to safety circuit serially.
	Brown	
	Yellow-Green	Earthing Cable.

Terminal Code	KDK	Pit control box (Socket/Stop/Alarm)	
CABLE 7x0,75mm	1	1-Faz	Connected to pit socket (220V AC)
	2	Mp-Neutral	
	3	STOP	110-111 Connected to safety circuit serially.
	4	STOP	
	5	+12V DC	Connected to pit alarm button.
	6	ALM	
	Yellow-Green	PE	Earthing Cable.

CAR TOP INSTALLATION (APH-APL) CODES&CABLES TERMINAL

Terminal Code	X-PHC	Car top photocell and Overload unit line supply. (two separate lines)	
CABLE 2x3x0,75mm	Brown	1-Faz	Photocell and overload unit supply-phase (220V AC).
	Blue	Mp-Nötr	Photocell and overload unit supply-neutral (0V AC).
	Yellow-Green	PE	Earthing Cable.

Terminal Code	X-KL	Cabin lamp line supply.	
CABLE 2x0,75mm	Brown	2-Faz	Cabin lamp line supply-phase (220V AC).
	Blue	Mp-Neutral	Cabin lamp line supply-neutral (0V AC).

Terminal Code	X-KF	Car top fan unit line supply.	
CABLE 3x0,75mm	Brown	FAN-Phase	Cabin fan supply phase (220V AC).
	Blue	Mp-Neutral	Cabin fan supply neutral (0V AC).
	Yellow-Green	PE	Earthing Cable.

Terminal Code	X-DR	Automatic door board line supply.	
CABLE 3x0,75mm	Brown	DR2-Phase	Automatic door board line supply-phase (220V AC).
	Blue	DR3-Neutral	Automatic door board line supply neutral (0V AC).
	Yellow-Green	PE	Earthing Cable.

Terminal Code	X-HFC	For high voltage free flexible cable terminals.	
		FC1	
		FC2	

Terminal Code	X-SF/PK	Cabin parachute brake contact.	
CABLE 2x0,75mm	Black	115	Connected to cabin parachute brake contact. (Connected to between 115-PK terminals serially.)
	Brown	PK-116	

Terminal Code	X-SF/TKS	Emergency trap door safety contact Cabin stop button. (Optional)	
CABLE 2x0,75mm	Black	TKS2	Connected to emergency trap door and cabin stop button serially. (Connected to between TKS2-120 terminals serially.)
	Brown	120	

Terminal Code	X-SF/KF1	Automatic Cabin Door-1 Safety (Door contact) Contact.	
CABLE 2x0,75mm	Black	120	Automatic cabin door landing door lock (1. Door) (Connected to between 120-KF1 terminals serially.)
	Brown	KF1	

Terminal Code	X-SF/KF2	Automatic Cabin Door-2 Safety (Door contact) Contact.	
CABLE 2x0,75mm	Black	KF2	Automatic cabin door landing door lock (2. Door) OPTIONAL (Connected to between KF2-130 terminals serially.)
	Brown	130	

*CON (B) :If there are two car operating panels inside the car, this connection is used.CON (A) is connected to APC board in the first car operating panel. CON (B) is connected to APC board in the second car operating panel. Based on the door side, dip-switch(2) APC board is set as A or B.

Terminal Code	X-DS	Automatic door board Open-Close signals (1. Door)	
CABLE 3x0,75mm	Black	KK-CLS	Automatic door close signal.
	Brown	KA-OPN	Automatic door open signal.
	Yellow-Green	KO-DCM	Automatic signals common terminal.

Terminal Code	X-ML	Unlocking safety zone shalter connection.	
CABLE 2+2x0,50mm	White	ML1	Door zone shalter 1.
	White	ML2	Door zone shalter 2.
	Gray	100	ML1-ML2 Shalter common terminal (+24V DC).

Terminal Code	X-MK	Safety door unlocking zone shalter connection.	
CABLE 2+2x0,50mm	White	MK/D	MK-Stopper MKD Down counter and stopper.
	White	MKU	MKU Up counter and stopper.
	Gray	1000	MK/D-MKU Shalters common terminal (GND-0V).

Terminal Code	X-LFC	Free flexible cable terminals for low voltage.	
		FC3	
		FC4	
		FC5	
		FC6	

Terminal Code	X-CAN	Cabin top CanBus units connections.
	100	Signal Circuit Supply (+) Positive Terminal +24V DC).
	1000	Signal Circuit Supply (-) Negative Terminal (0V/GND).
	CL	Can-Bus Communication (Can-Low) Channel.
	CH	Can-Bus Communication (Can-High) Channel.

Terminal Code	CON (A/B)	Connection cable between car operating panel COP and inspection box.	
CABLE 10x0,50mm	1	CH	Can-Bus Communication (Can-High) Channel.
	2	CL	Can-Bus Communication (Can-Low) Channel.
	3	GND-1000	Signal Circuit Supply (-) Negative Terminal (0V/GND).
	4	V+-100	Signal Circuit Supply (+) Positive Terminal +24V DC).
	5	12V	+12V DC supply
	6	PD	Intercom phone communication (D) terminal.
	7	PC	Intercom phone communication (C) terminal.
	8	PA	Intercom phone communication (A) terminal.
	9	FC7	Free cable.
	Yellow-Green	PE	Earthing cable.

Terminal Code	X-FOT	Photocell unit connection contact.	
CABLE 2x0,75mm	Brown	FOT/I6	Photocell contact.
	Black	1000	Photocell contact common terminal (GND-0V).

Terminal Code	X-OVL	Overload unit supply contact.	
CABLE 2x0,75mm	Brown	804/I5	Overload contact.
	Black	1000	Overload contact common terminal (GND-0V).

XK-IC1	Well Re-wiring Installation Cable With Automatic Door (18 Wires)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	1	Pit Socket Supply Phase Terminal (220V AC).
2	Mp	Pit Socket Supply Neutral Terminal (0V).
3	110	Safety Line Supply.
4	111	Pit Stop Button.
5	112	Overspeed Governor Safety Contact Supply.
6	113	Overspeed Governor Safety Return Circuit. Safety Contact Feed of Pit Well Limit and Hydraulic Buffer.
7	114	Safety Contact Return Circuit of Pit Well Limit and Hydraulic Buffer.
8	130	Landing Panel Contact Supply.
9	140	Landing Panel Lock Contact Circuit.
10	818	Upper Limit End of Fast Speed Way (KSR2).
11	817	Lower Limit End of Fast Speed Way (KSR1).
12	1000	Signal Line Supply (-) Negative Terminal (0V).
13	100	Signal Line Supply (+) Positive Terminal (24V DC).
14	+12V	Alarm Button Supply (+12V DC).
15	ALM	Pit Alarm Button.
16	YDK1	Free Cable-1.
17	YDK2	Free Cable-2.
Yellow-Green	PE	Earth Cable.

XK-IC2	Well Re-wiring Installation Cable With Manual (Hinged) Door (18 Wires)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	1	Pit Socket Supply Phase Terminal (220V AC).
2	Mp	Pit Socket Supply Neutral Terminal (0V).
3	110	Safety Line Supply.
4	111	Pit Stop Button.
5	112	Overspeed Governor Safety Contact Supply.
6	113	Overspeed Governor Safety Return Circuit. Safety Contact Feed of Pit Well Limit and Hydraulic Buffer.
7	114	Safety Contact Return Circuit of Pit Well Limit and Hydraulic Buffer.
8	135	Cabin Door Return Contact. Landing Door Contact Supply (Hinged Door).
9	140	Landing Panel Lock Contact Circuit.
10	818	Upper Limit End of Fast Speed Way (KSR2).
11	817	Lower Limit End of Fast Speed Way (KSR1).
12	1000	Signal Line Supply (-) Negative Terminal (0V).
13	100	Signal Line Supply (+) Positive Terminal (24V DC).
14	+12V	Alarm Button Supply (+12V DC).
15	ALM	Pit Alarm Button.
16	120	Stop Circuit Return.
17	130	Landing Panel Contact Supply.
Yellow-Green	PE	Earth Cable.

XK-BRK1	Brake Coil and Thermistor Installation Cable of Synchronous Machine (7x0,75mm)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	2000	Brake Coil-1 Supply Negative (-) Terminal.
2	840	Brake Coil-1 Supply Positive (+) Terminal.
3	FAN	Motor Fan Supply Phase Terminal (220V AC).
4	Mp	Motor Fan Supply Neutral Terminal (0V).
5	T1	Motor Thermistor Terminal-1 (PTC).
6	T2	Motor Thermistor Terminal-2 (PTC).
Yellow-Green	PE	Earth Cable.

XK-BRK2	Brake Coil and Thermistor Installation Cable of Gearless Machine (10x0,75mm)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	2000	Brake Coil-1 Supply Negative (-) Terminal.
2	840	Brake Coil-1 Supply Positive (+) Terminal.
3	2000	Brake Coil-2 Supply Negative (-) Terminal.
4	840	Brake Coil-2 Supply Positive (+) Terminal.
5	BRC	Synchronous Machine Brake Control (Common-1000)
6	BR1	Synchronous Machine Brake Control-1 Feedback Terminal (NC).
7	BR2	Synchronous Machine Brake Control-2 Feedback Terminal (NC).
8	T1	Motor Thermistor Terminal-1 (PTC).
9	T2	Motor Thermistor Terminal-2 (PTC).
Yellow-Green	PE	Earth Cable.

XK-OSG1	Overspeed Governor A3 Coil Installation Cable (5x0,75mm)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	SG1	Overspeed Governor A3 Coil Supply Negative (-) Terminal.
2	SG2	Overspeed Governor A3 Coil Supply Positive (+) Terminal.
3	SGO	Overspeed Governor A3 Coil Monitoring Contact (1000/GND).
4	SGO	Overspeed Governor A3 Coil Monitoring Contact (NC).
Yellow-Green	PE	Earth Cable.

XK-OSG2	Remote-Control Overspeed Governor Installation Cable (5x0,75mm)
TERMINAL CODE	TERMINAL KODU	INSTRUCTIONS
1	ORR-	Overspeed Governor Remote-Control Reset Coil Supply Negative (-) Terminal.
2	ORR+	Overspeed Governor Remote-Control Reset Coil Supply Positive (+) Terminal.
3	ORT-	Overspeed Governor Remote-Control Test Coil Supply Negative (-) Terminal.
4	ORT+	Overspeed Governor Remote-Control Test Coil Supply Positive (+) Terminal.
Yellow-Green	PE	Earth Cable.

XK-HYD	Hydraulic Unit Installation Cable (16x0,75mm)											
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS	GMV 3010	OMAR	BUCHER	BUCHER i-Valve	KLEEMANN	MORIS	IGV	START 90E	START 93/E	
1	FAN	Oil Heater and Valve Heater Supply Phase Terminal (220V AC).										
2	Mp	Oil Heater and Valve Heater Supply Neutral Terminal.(0V).										
3	VCM (COM)	Valve Common Terminal.	COM	COM			COM	C.E.	COM	COM	COM	
4	US	Up Slow Valve.	VMP	EVS	6b	M1-	VA	E. λ\△	E. λ\△	20		
5	UF	Up Fast Valve.	VML	EVR	8	M1+	VB	E.A.	EB	22	22	
6	DF	Down Fast Valve.			6a	M0-	VC					
7	DS	Down Slow Valve.	VMD	EVD	7	M0+	VD	E.B.	ED	16	16	
8	COM	Down Added Safety Valve Common Terminal.(Additional A3 Valve)	COM	COM	COM		COM					
9	VA3	Down Added Safety Valve Supply (Additional A3 Valve).	DLV	HDU	DSV		L10				20	
10	1000	Overload Contact and ve Pressure Switch Contact Supply (GND).										
11	804	Overload Hear of Contact Circuit.										
12	DER	Minimum, Maximum Pressure Contacts and Error Circuit Contact.										
13	T1	Motor Thermistor and Oil Thermostat Terminal-1 (PTC).										
14	T2	Motor Thermistor and Oil Thermostat Terminal-2 (PTC).										
15	YDK1	Free Cable.										
Yellow-Green	PE1	Earth Cable.										

XK-CB	Landing Operating Panel CAN-Bus Installation Cable (2x0,75 + 2x0,34)	
TERMINAL ITEM NO	TERMINAL CODE	COLOR CODE	INSTRUCTIONS
1	100	Red	Signal Circuit Supply (+) Positive Terminal +24V DC).
2	1000	Black	Signal Circuit Supply (-) Negative Terminal (0V/GND).
3	CL0	Green	Can-Bus Communication (Can-Low) Channel.
4	CH0	Yellow	Can-Bus Communication (Can-High) Channel.

XK-CBG	Group Communication Installation Cable (2x0,50mm)	
TERMINAL ITEM NO	TERMINAL CODE	COLOR CODE	INSTRUCTIONS
1	CL1	White	Can-Bus Group Communication (Can-Low) Channel.
2	CH1	Gray	Can-Bus Group Communication (Can-High) Channel.

XK-MOT	Motor Power Line Supply Cable (4 TTR Cable)
TERMINAL ITEM NO	TERMINAL CODE	INSTRUCTIONS
1	U1	Motor Supply Cable-1 (U1).
2	V1	Motor Supply Cable-2 (V1).
3	W1	Motor Supply Cable-3 (W1).
Yellow-Green	PE1	Earth Cable.

XK-MOT/H	Hydraulic Motor Star-Delta Power Line Supply Cable (3 TTR Cable)
TERMINAL ITEM NO	TERMINAL KODU	INSTRUCTIONS
4	U2	Motor Supply Cable-4 (U2).
5	V2	Motor Supply Cable-5 (V2).
6	W2	Motor Supply Cable-6 (W2).

**XK-MOT/H Cable ; Hydraulic Lift Unit, Motor Connection Type When Used Star-Delta.