

EcoLogic User Manual

eem
LIFT CONTROLLER and RESCUE SYSTEM

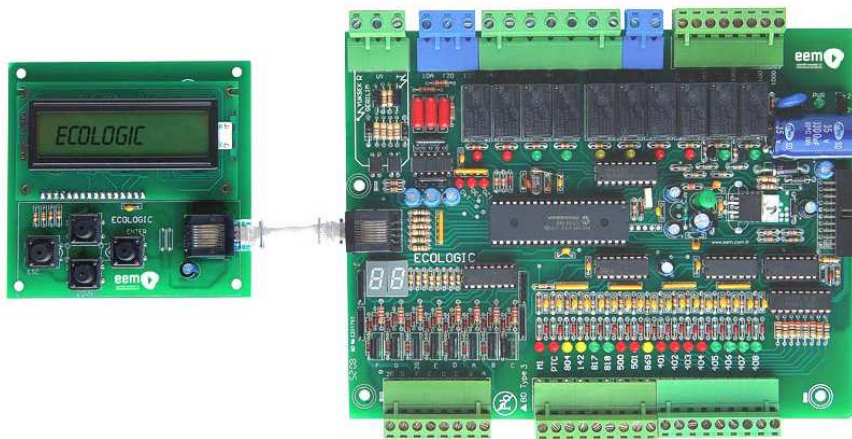


“Beyond Usual Conditions”



EcoLogic

LIFT CONTROLLER BOARD USER MANUAL



Serial Number:.....

Version: 1.00

NOTE: Make sure that the serial number of the user guide and the product is same. Otherwise, the product you use and the explanations given here may not match.

CONNECTOR NUMBERS AND MEANINGS IN ECOLOGIC CONTROL BOARD:

10A	: Neutral of security circuit
120	: Stop return, Door contact start
130	: Door contact return, Lock start
140	: Lock return
Ru1/Rah	: Terminal of down direction for traction elevator or down-fast relay for hydraulic elevator.
Ru2/Ryh	: Terminal of up direction for traction elevator or up-fast relay for hydraulic elevator.
Rh/Ray	: Terminal of down for traction elevator or down-slow relay for hydraulic elevator.
Rf/Ryy	: Terminal of up for traction elevator or up-slow relay for hydraulic elevator.
1, 2	: Normally open (NO) terminals of car lamp relay.
LIR, LIR	: Normally open(NO) terminals of pump relay.
K3	: Closing signal (Common terminal is K15)
K5	: Opening signal (Common terminal is K15)
K15	: Common terminal of K3-K5
K16	: Automatic door opening limit terminal (Common terminal is 100)
K19	: Automatic door closing limit terminal (Common terminal is 100)
100	: +24 Volts
1000	: Common terminal of 100 signal (-24 Volt)
a,b,c,d,e,f,g,2g	: Display outputs (Common terminal is 100)
02	: Out of service lamp (Common terminal is 1000)
12	: Busy lamp (Common terminal is 1000)
031	: Up direction arrow lamp (Common terminal is 1000)
032	: Down direction arrow lamp (Common terminal is 1000)
190	: Outer floor call common for simple control
M1	: Bistable switch input (Common terminal is 100)
142	: JF precise stopper bistable switch if no rescue board is available (Common terminal is 100)
817	: Lower limit stopper bistable switch (Common terminal is 100)
818	: Higher limit stopper bistable switch (Common terminal is 100)
804	: Over load contact (Common terminal is 100)
K20	: Automatic door opening button, photocell contact, thrust force contact (Common terminal is 100)
DTS	: Automatic door closing button (Common terminal is 100)
869	: Well inspection switch (Common terminal is 100)
500	: Inspection down button (Common terminal is 100)
501	: Inspection up button (Common terminal is 100)
KRC	: Contactor – control signal input (Common terminal is 100)
PTC	: Motor termistor connection (Common terminal is 100)
X1-X8	: Call terminals (Common terminal is 100, signal common terminal is 1000)

NOTE: The default adjustment of the common terminals for low arrow, up arrow, busy and out of service lamps are 1000. The common terminal can be arranged as 100 from the jumpers over Ecologic.

CONTROL PANEL CONNECTOR NUMBERS AND MEANINGS:

R,S,T	: Main Phases
Mp	: Neutral
PE	: Ground
U1,V1,W1	: High speed motor outputs for traction lifts, motor winding terminals for hydraulic lifts
U2,V2,W2	: Low speed motor outputs for traction lifts, motor winding terminals for hydraulic lifts
100	: +24 Volts
1000	: Common terminal of 100 signal (-24 Volt)
FR+,FR-	: Brake inductor terminals
PO+,PO-	: Pump inductor terminals
1F	: Direct Phase
1	: Direct phase over the cabin
2	: Cabin lamp
110	: Safety circuit start
111,112,113	: Null connectors
120	: Stop return, Door contact start
130	: Door contact return, Lock start
140	: Lock return
K3	: Closing signal (Common terminal is K15)
K5	: Opening signal (Common terminal is K15)
K15	: Common terminal of K3-K5
K16	: Automatic door opening limit terminal (Common terminal is 100)
K19	: Automatic door closing limit terminal (Common terminal is 100)
24+,24-	: 24V DC door opening voltage if rescue board is available in panel

Dear Customer,

Thank you for choosing Ecologic Board prepared based on the latest advancements of microelectronic systems. We would like to present you the best efficacy by our product that was manufactured in our modern facility and was carefully quality controlled. Therefore, we would like to request you to read this user guide throughly before starting installation and please keep it as a reference.

We give great care to ensure making installation and use of our product accurately and allow it to be in your service for long years. For this, we continuously update and extend our documets. All technical drawings are presented by carefully checking several times. However, should you notice any mistakes please do not hesitate to inform us. We will be in your service with newer and richer up-to-date versions.

Please follow our new products and updates at our web site www.eem.com.tr .

We hope you find our products to be a valuable tool in your business.

ATTENTION ! : All documents given in this user manual are inteded for an advisory. Despite all our attention it may still contain mistakes and flaws. Please apply this information by controlling and throughly questioning.

1. INTRODUCTION:

EcoLogic elevator control board is a microcontroller based electronic lift control system. This board can be used to control traction drive elevators.

2. FEATURES OF THE PRODUCT:

• It provides unique user-friendliness and performance superiorities for all type of elevators using different application macros.

- Adjustable control type.
- Adjustable number of stops.
- Call lamps and buttons can be connected to the system with a single cable.
- All parameters can be adjusted easily using LCD screen and program buttons.
- Simple and error-free installation provides savings from time and number of control panel connectors.

- Short circuit protected display outputs having adjustable codes for every stop is available.
- Overload function is available.
- Adjustable parking stop and park travel time is available.
- For floor selector gray code and counter mode is available.
- Adjustable position reset function is available.
- In case of bistable switch faults, faulty bistable switch can be detected easily.
- Auto reset feature of KRC fault, low-speed fault and hi-speed fault is available.
- Rlir relay can be programmed to be used in a different application.
- Warning function in LCD screen is available in case the door is left open for a long time.
- Adjustable busy time, wait time on the floor, lock wait time, door stay open time, door open error signal time, parking time, maximum high speed time and maximum low speed time features are present.

• For different types of buttons, display output type can be chosen as “a,b,c,d Segment”, “Gray Code”, “Reverse Gray”, “Binary Code”, “Reverse Binary”.

• On the “Kartopu Serial Communication Card”, display output type can be choosed as “a,b,c,d Segment”, “Gray Code”, “Reverse Gray”, “Binary Code”, “Reverse Binary”.

- Password protection can be activated for security.
- Auto-door type is eligible and Open/Closed standby mode for the fully automatic door can be adjusted. Also auto-door type can be chosen seperately for each floor. For example door type can be chosen as full automatic for ground and first floor, and it can be chosen as semiauto for garage floor. Also it can be chosen as “open on floor” for ground floor, “closed on floor” for first floor.

- It stores the latest 50 errors.
- All inputs and outputs can be tested on test menu.
- Turkish and English language options are present as standard feature.

3. PARAMETERS:

A large number of adjustable parameters are provided to the user to meet all demands of elevator on the field. Because many number of parameters exist, for ease of use, they have been classified in terms of their characteristics and functions. Therefore, compared with the similar systems, reaching to a parameter and changing its value is more practical and easier.

EEM Imp. Exp. Trade.Co. – Lift Control Systems

Fevzi Çakmak Mah. MODESA Sanayi Sitesi 10735. Sok .No:3 Karatay / KONYA / Türkiye
Tel: +90 332 346 46 56-66 Fax: +90 332 346 46 76

Par. No:	Parameter Name	Setting Field	Default Setting	Explanation
1. WELL SETTINGS				
1.1.	Control Type	Simple Collective Complex Collective One button down collective One button up collective One button full collective Two button full collective	Complex Collective	For connection principle look at the drawings numbered 6x.
1.2.	Auto Door	None Semi Automatic Full Automatic Full Automatic, Open at the Floor Special Door	Semi Automatic	
1.3.	Special Door		-	If the type of door was set as special door, this parameter can only be displayed.
2. TIME SETTINGS				
2.1.	Busy Time	1 ~ 20 seconds	8 seconds	
2.2.	Wait Time at Stops	1 ~ 15 seconds	4 seconds	
2.3.	Lock Wait Time	5 ~ 25 seconds	15 seconds	
2.4.	Door Stay Open Time	1 ~ 40 seconds	6 seconds	If the type of door was set as special door, this parameter can only be displayed.
2.5.	Open Door Fault Time	10 ~ 240 seconds	60 seconds	
2.6.	Parking Time	20 ~ 250 seconds	30 seconds	This parameter can only be displayed if "3.6-Parking Stop" parameter was not set as 'cancel'.
2.7.	Slow Travel Time	5 ~ 20 seconds	10 seconds	
2.8.	Fast Travel Time	10 ~ 100 seconds	15 seconds	
3. STOP SETTINGS				
3.1.	Number of stops	2 ~ 8 stops	8	
3.2.	Display Output Type	7 Segment Display Gray Code Inverted Gray Binary Code Inverted Binary	7 Segment Display	
3.3.	Display Settings		-	This parameter can only be displayed if "3.2-Display Output Type" parameter was set as "7 segment display". Also only stops that are adjusted by "3.1-NumberOfStops" can be adjusted.
3.4.	Parking Stop	Cancel, 1 ~ 8 stops	Cancel	You can adjust the parking time by "2.6-Parking Time" parameter.
4. FLOOR SELECTION SETTINGS				
4.1.	Position Reset	Yes No	No	

EcoLogic Parameter List

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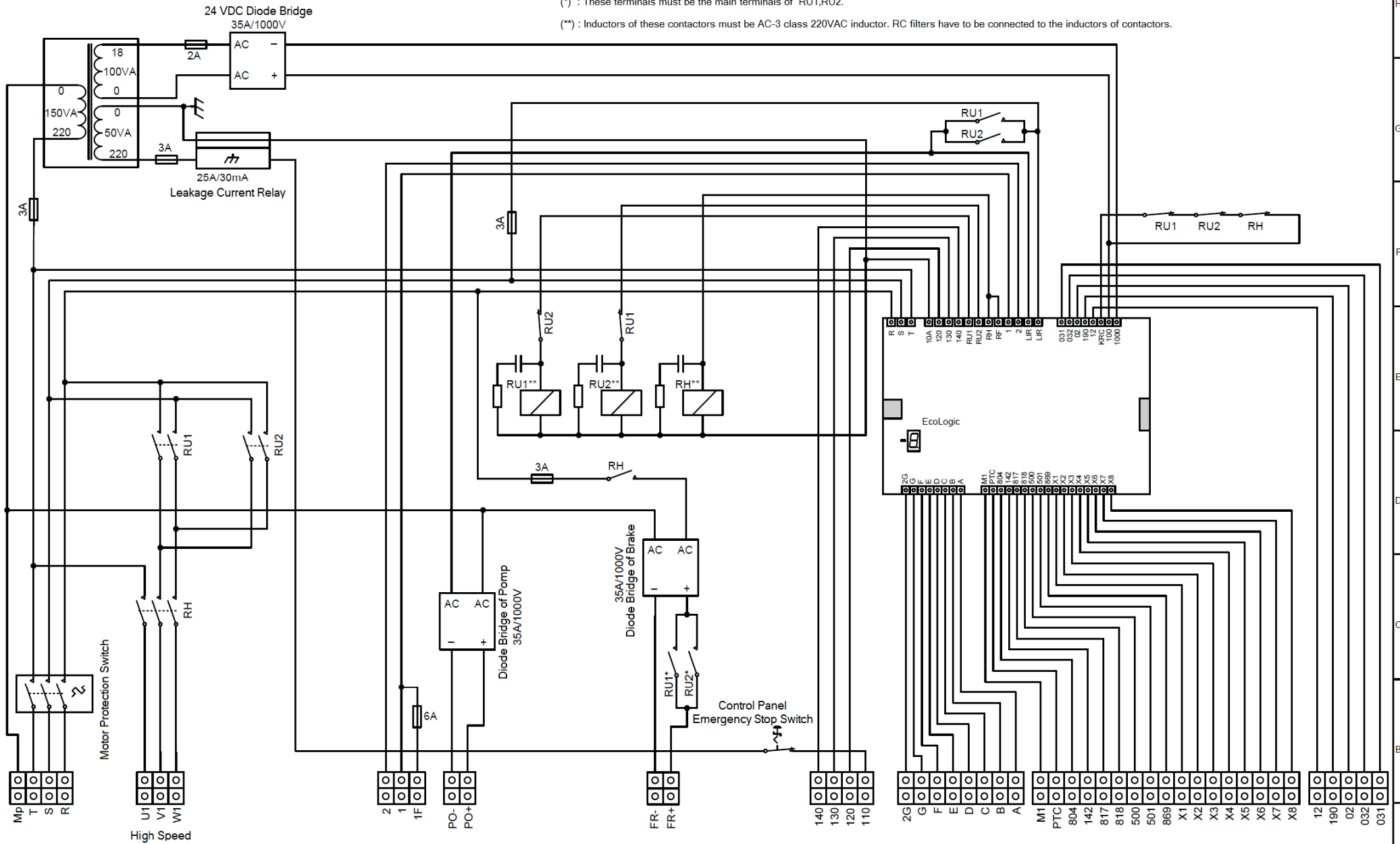
5. OTHER SETTINGS				
5.1.	Phase Protection Control	Yes No	Yes	
5.2.	Automatic Reset KRC	Yes No	No	
5.3.	Automatic Reset Low Speed Error	Yes No	No	
5.4.	Automatic Reset High Speed Error	Yes No	No	
5.5.	Rlir Relay	Cancel Inspection Gong Error Lift Functions Lir	-	This parameter can be displayed if the type of door was set as “full auto” or “full auto-open at floor”. Otherwise, this relay in default operate as a Rlir (Pump) relay.
5.6.	Stop Clear Call	Yes No	Yes	
7. FAULTS				
7.1.	Faults		-	The number of most recent fault is 1.
7.2.	Erase Faults		-	
8. SYSTEM INFORMATION				
8.2.	Version Number		-	
8.3.	Serial Number		-	
8.4.	Manufacturer Info		-	
8.5.	Vendor Info		-	
9. TEST MENU				
9.1.	Input Test		-	The order of the information on the screen and general purpose inputs are same.
9.2.	Call Test		-	The information on the screen is same with the order of call inputs.
9.3.	Relay Test		-	To enter into menu, the elevator must be operated in inspection mode and emergency stop button must be pressed. Also, if KRC signal is cut for any reason, this menu is automatically exited.
10. SECURITY				
10.1.	Password inquiry	On Off	Off	
10.2.	Change password		-	This menu can not be displayed if password inquiry is off.
11. RESTORE DEFAULT SETTINGS				
11.1.	Traction Elevator		-	
12. LANGUAGE				
12	Language	Turkce-English	Turkce	

Ecologic Parameter List

NOTE: If your grounding resistor equals or less than 5 Ohm, there is no need to use the isolation transformer. In this case, residual current relay inputs can be connected to S and Mp terminals directly which are placed on the outputs of motor protection switch. There is no need to ground installation on the primary or secondary of transformer because isolation transformer was not used. However, the body of the transformer must be grounded.

(*) : These terminals must be the main terminals of RU1,RU2.

(**) : Inductors of these contactors must be AC-3 class 220VAC inductor. RC filters have to be connected to the inductors of contactors.



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Lift Control System

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Project Name Ecologic Lift Control System

Drawing Name One Speed Control Panel Connection Draw

Description



Drawer ZD - BA

Control SH

Version 1.00

Date 16.01.2009

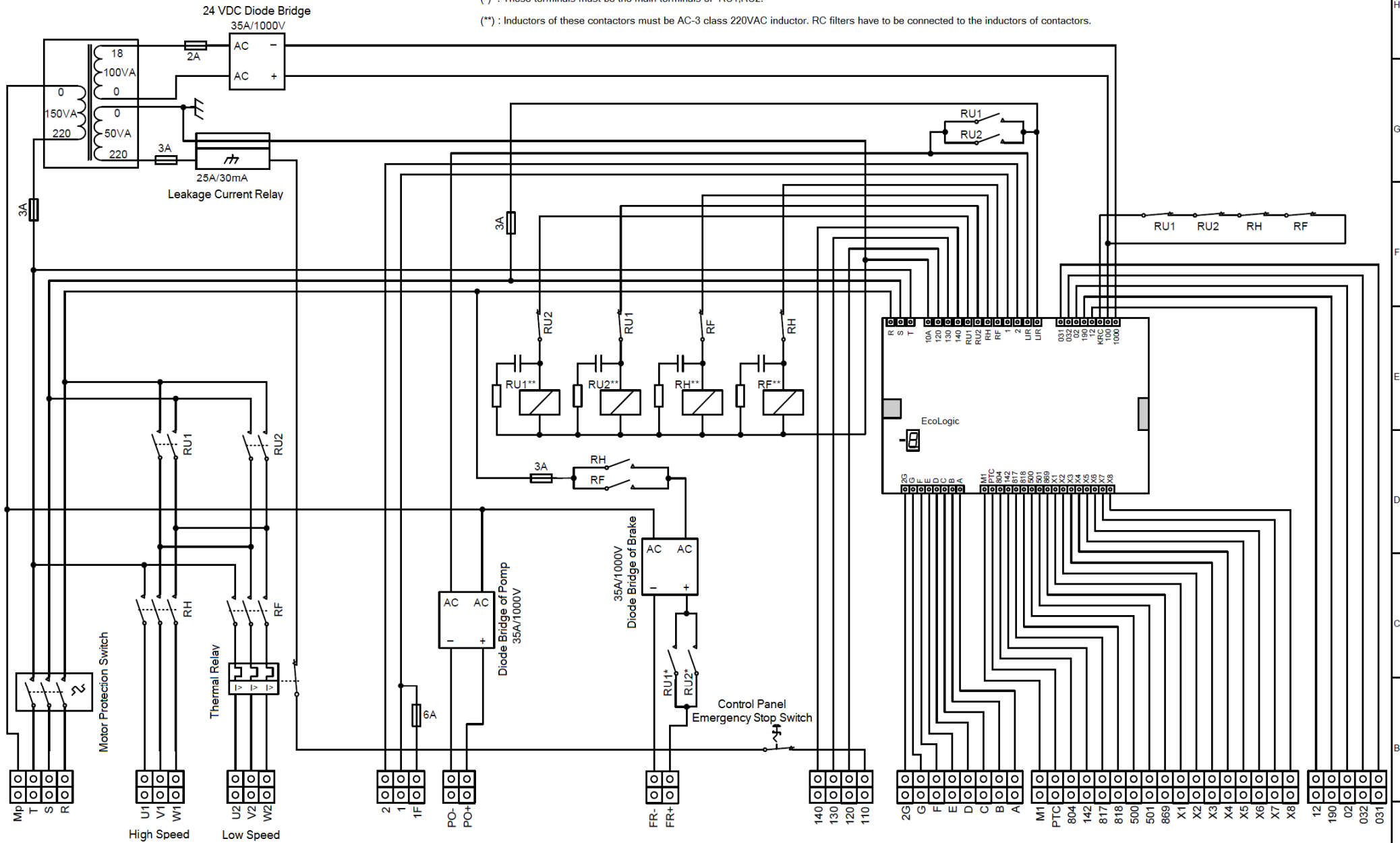
Drawing No: 1A

Page 8

NOTE: If your grounding resistor equals or less than 5 Ohm, there is no need to use the isolation transformer. In this case, residual current relay inputs can be connected to S and Mp terminals directly which are placed on the outputs of motor protection switch. There is no need to ground installation on the primary or secondary of transformer because isolation transformer was not used. However, the body of the transformer must be grounded.

(*) : These terminals must be the main terminals of RU1,RU2.

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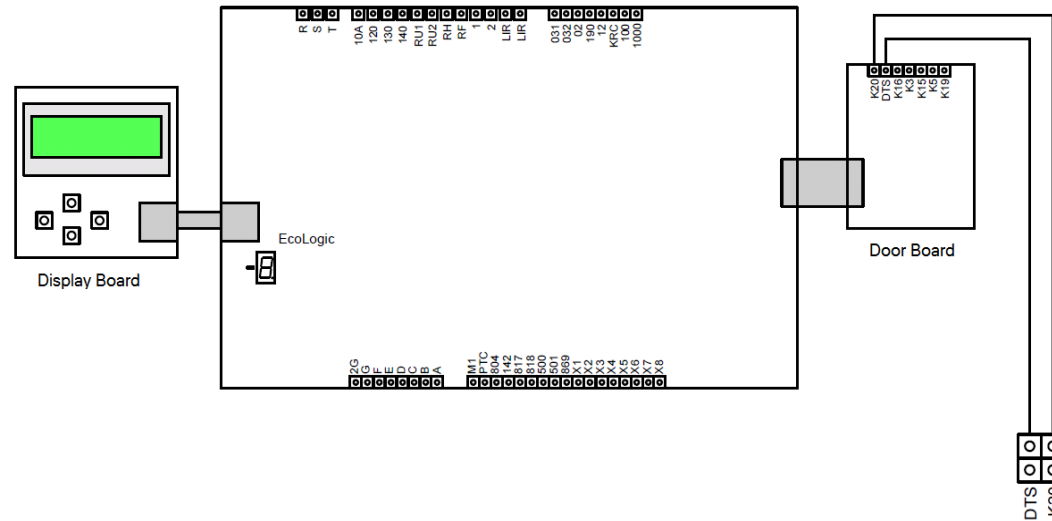


CALL BUTTONS CONNECTION PRINCIPLE

202-216 : Down external calls.
 301-315 : Up external calls.
 401-416 : Car internal calls.
 601-616 : External calls.

Call Inputs of Control Card

CALL TERMINALS	Call Inputs of Control Card							
	X1	X2	X3	X4	X5	X6	X7	X8
CONTROL TYPE								
Simple Collective Complex Collective (Maximum 16 stops)	401	402	403	404	405	406	407	408
One button down collective One button up collective One button full collective (Maximum 8 stops)	601	602	603	604	401	402	403	404
Two button full collective (Maximum 6 stops)	202	203	301	302	401	402	403	Boş



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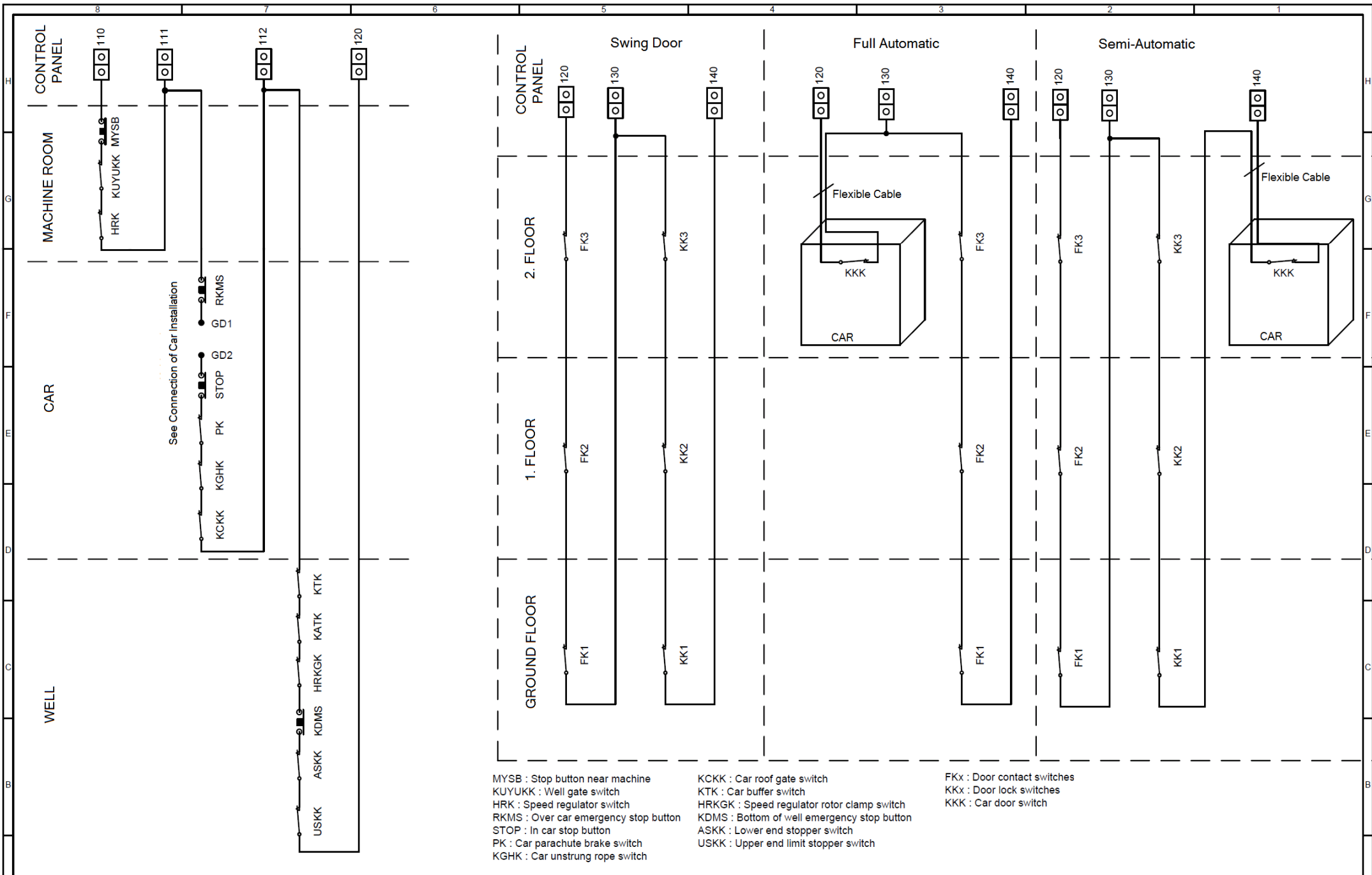
Project Name	Ecologic Lift Control System		
Drawing Name	Display Board, Door Board Connection and Call Buttons Connection Drawing		
Description			
	Version 1.00	Date 16.01.2009	



Drawer ZD - BA

Control SH

Drawing No: 2A Page 10



MYSB : Stop button near machine
 KUYUUKK : Well gate switch
 HRK : Speed regulator switch
 RKMS : Over car emergency stop button
 STOP : In car stop button
 PK : Car parachute brake switch
 KGHK : Car unstrung rope switch
 KCKK : Car roof gate switch
 KTK : Car buffer switch
 HRKGGK : Speed regulator rotor clamp switch
 KDMS : Bottom of well emergency stop button
 ASKK : Lower end stopper switch
 USKK : Upper end limit stopper switch
 FKx : Door contact switches
 KKx : Door lock switches
 KKK : Car door switch

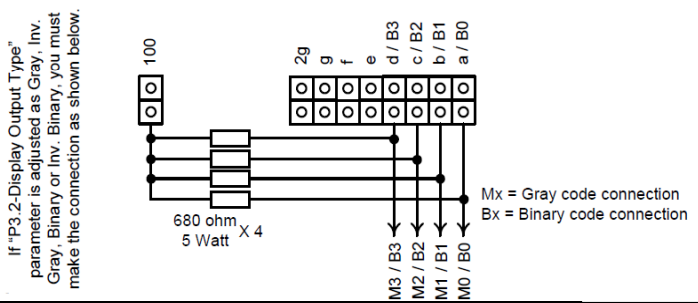
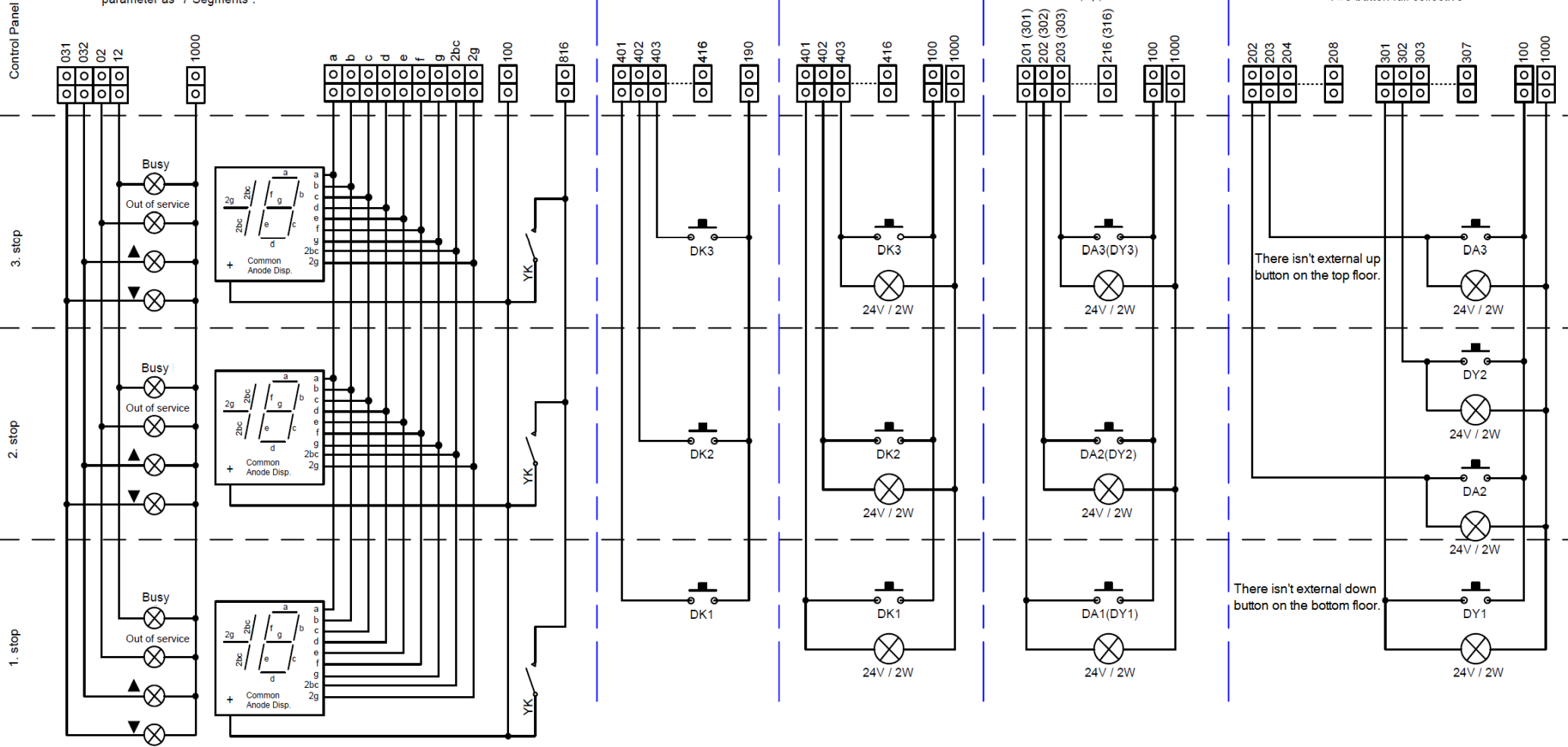
NOTE: To use parallel installed display outputs, adjust "P3.2-Display Output Type" parameter as "7 Segments".

Simple Collective

In / out complex collective

Down (Up) Collective

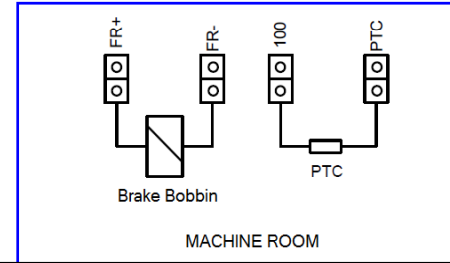
Two button full collective



- DKx : Call buttons and lamps
- DAx : Down call buttons and lamps
- DYx : Up call buttons and lamps
- SDS : Out of service lamp
- YK : Fire switch

: 24V, max 2W lamp

NOTE: The default adjustment of the common terminals for low arrow, up arrow, busy and out of service lamps are 1000. The common terminal can be arranged as 100 from the jumpers over Ecologic.



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Lift Control System

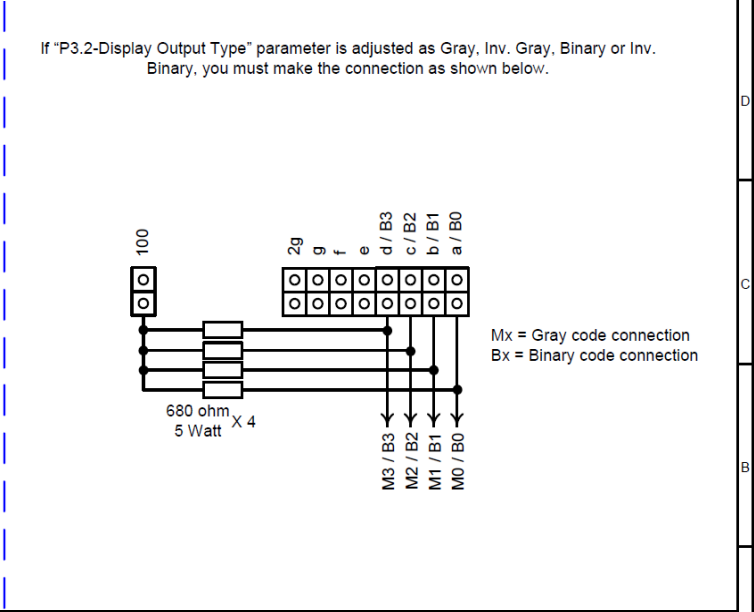
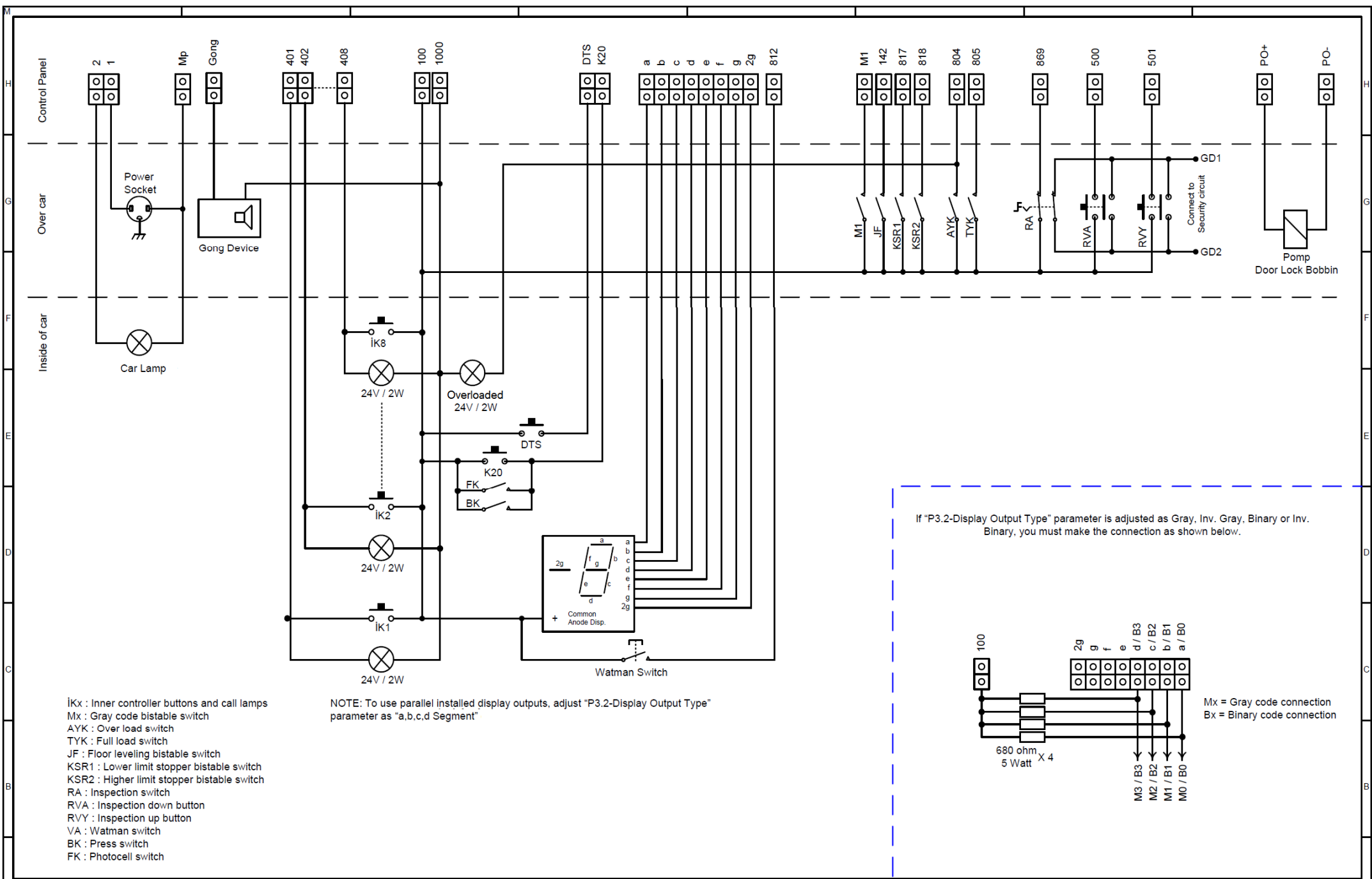
Project Name	Ecologic Lift Control System
Drawing Name	Floor Installation, Brake, Motor, Thermistor Connection
Description	



Drawer ZD - BA
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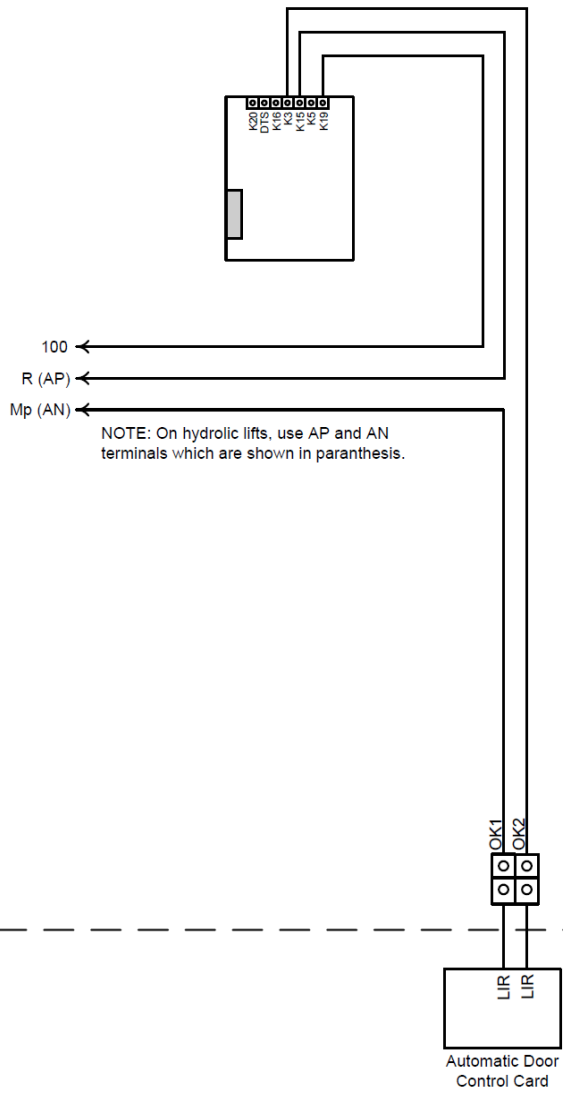
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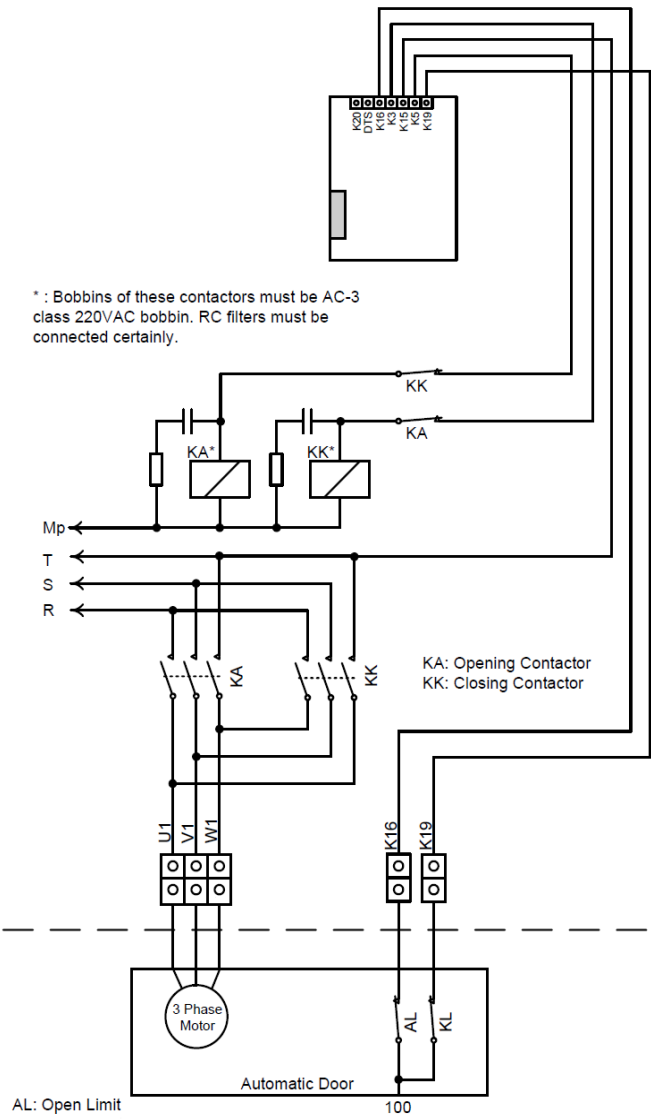
- IKx : Inner controller buttons and call lamps
- Mx : Gray code bistable switch
- AYK : Over load switch
- TYK : Full load switch
- JF : Floor leveling bistable switch
- KSR1 : Lower limit stopper bistable switch
- KSR2 : Higher limit stopper bistable switch
- RA : Inspection switch
- RVA : Inspection down button
- RVY : Inspection up button
- VA : Watman switch
- BK : Press switch
- FK : Photocell switch

NOTE: To use parallel installed display outputs, adjust "P3.2-Display Output Type" parameter as "a,b,c,d Segment"

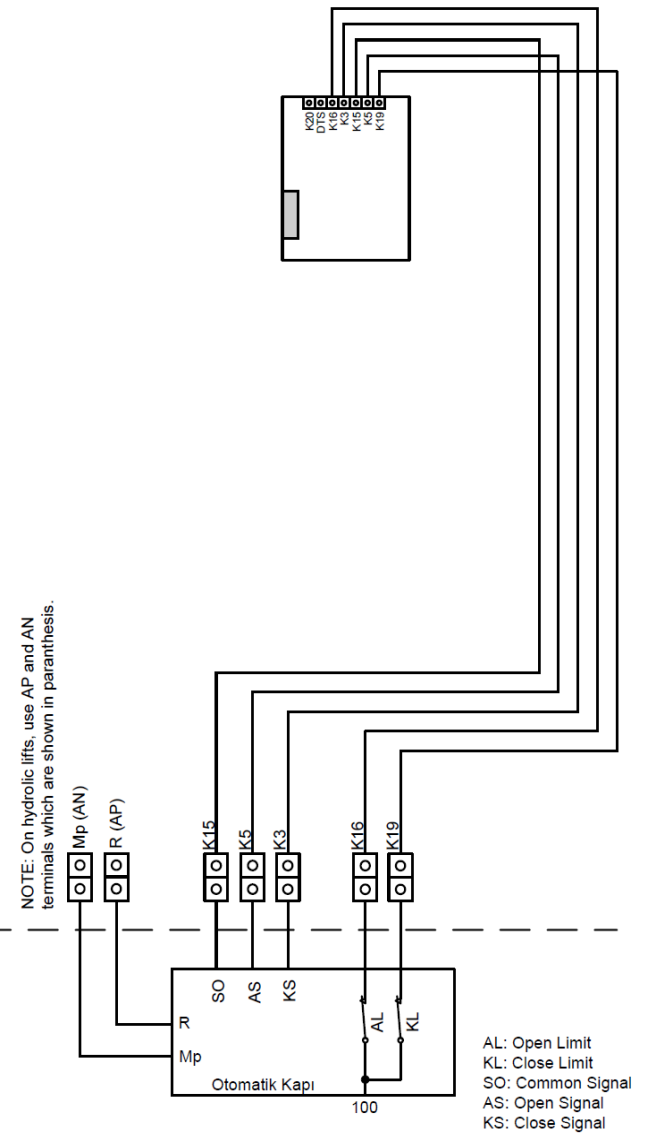
1. AUTO-DOOR CARD CONNECTION WHICH OPERATES BY POMP SIGNAL

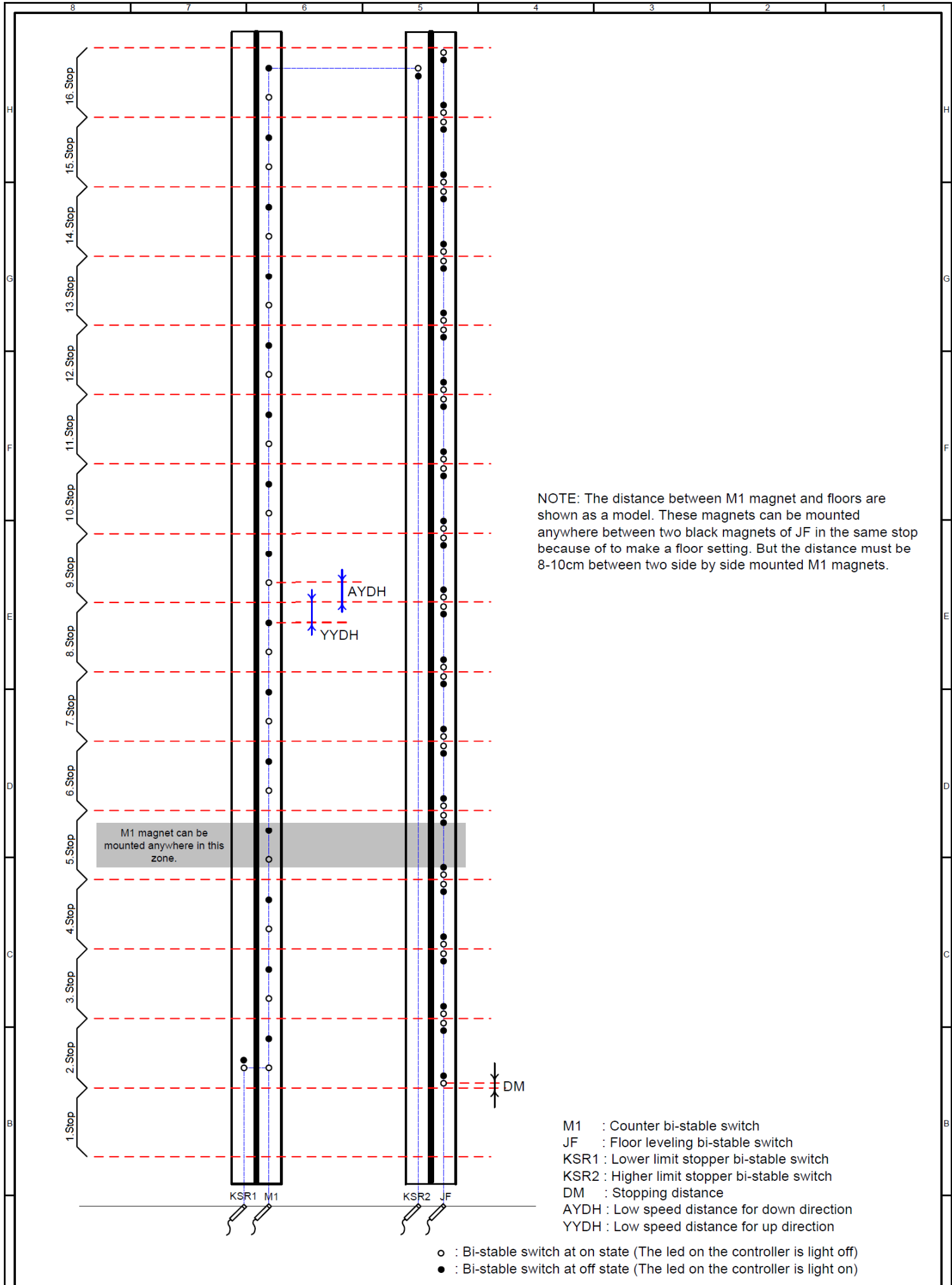


2. 3 PHASES 380V MOTORIZED AUTO-DOOR CARD CONNECTION WITHOUT CONTROL CARD



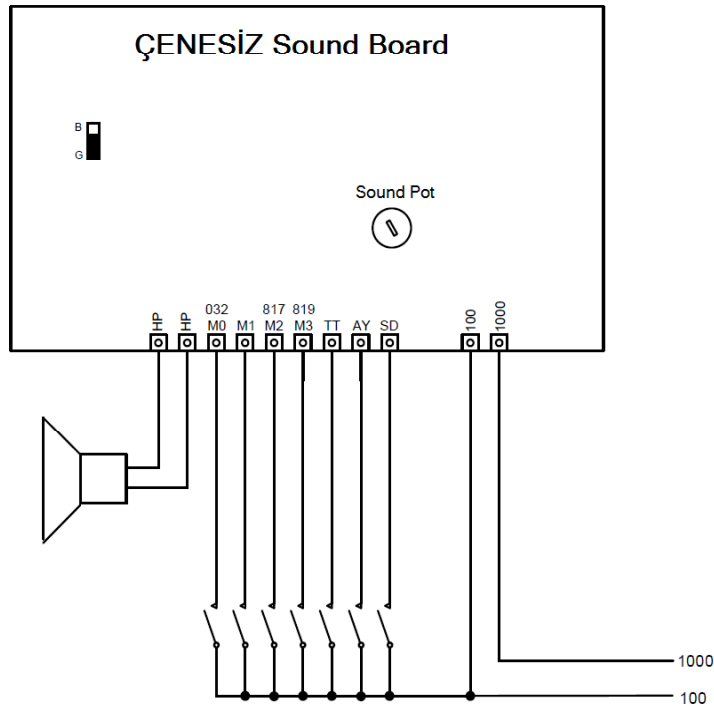
3. AUTO-DOOR CARD CONNECTION WITH CONTROL CARD





Project Name	Ecologic Lift Control System		
Drawing Name	Counter System Bistable Magnets Order		
Description		Version 1.00	Date 16.01.2009





If you use GRAY CODE for floor selection,

1. Plug the jumper on the board to the pins labeled "G"
2. Connect the loudspeaker to Hp,Hp connectors
3. Connect M0 cable to M0/032 connector
4. Connect M1 cable to M1 connector
5. Connect M2 cable to 817/M2 connector
6. Connect M3 cable to 819/M3 connector
7. Connect triggering cable to TT connector
8. Connect 804 cable to AY connector
9. Connect 02 cable to SD connector
10. Connect 100 cable to 100 connector
11. Connect 1000 cable to 1000 connector

If you use COUNTER for floor selection,

1. Plug the jumper on the board to the pins labeled "B"
2. Connect the loudspeaker to Hp,Hp connectors
3. Connect 032 cable to M0/032 connector
4. Connect M1 cable to M1 connector
5. Connect 817 cable to 817/M2 connector
6. For elevators with speeds higher than 1m/s, 819 cable must be connected to 819/M3 connector. For elevators with 1m/s and lower speed leave the connector 819 unconnected.
7. Connect triggering cable to TT connector
8. Connect 804 cable to AY connector
9. Connect 02 cable to SD connector
10. Connect 100 cable to 100 connector
11. Connect 1000 cable to 1000 connector

NOTE 1: Trigger input connect to normally open contact of slow contactor. The audio will be played when the trigger input active. But as long as trigger input is active, the audio will not play. 100 terminal is connected to the trigger input passes in front of the elevator on each floor, the sound will be played.

NOTE 2: "Out of Service" sound is played 5 times in 5 minute.

NOTE 3: "Overloaded" sound is played one time in 5 second.



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Project Name Ecologic Lift Control System

Drawing Name Çenesiz Sound Board Connection

Description

Version 1.00

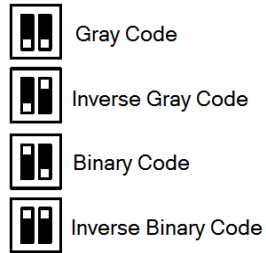
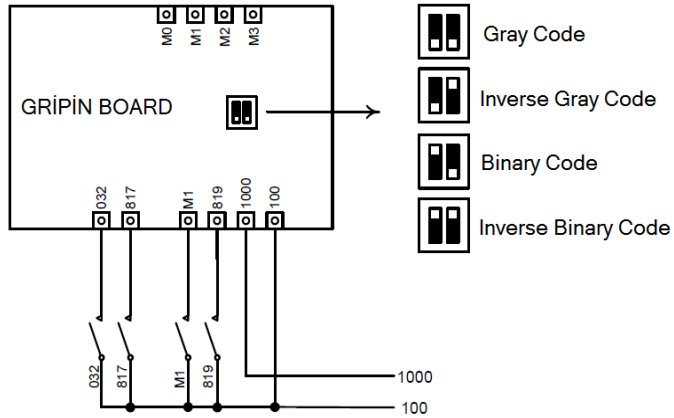
Date 16.01.2009



Drawer ZD - BA

Control SH

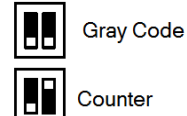
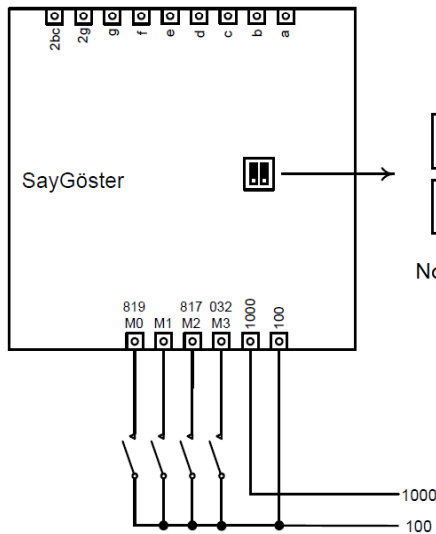
Drawing No: 5A Page 16



Gripin Board:

For elevators, in which COUNTER system has been used as floor selection, Gripin board transforms the floor the cabin is placed to the gray, inverse gray, binary and inverse binary code for different needs.

NOTE: For elevators with 1m/s and lower speed leave the connection 819 unconnected. For elevators with speeds higher than 1m/s, 819 cable must be connected to 819 connector.



Note : Should be energized after mode change

SayGöster Board:

Saygöster board is used to create needed digital terminals for display present in cabin socket over the cabin without any need to cabling from flexible. For elevators, in which COUNTER system has been used as floor selection, Gripin board transforms the floor the cabin is placed to the gray, inverse gray, binary and inverse binary code for different needs.

In systems that use GRAY CODE as floor selection,

1. Connect M0 cable to M0 connector
2. Connect M1 cable to M1 connector
3. Connect M2 cable to M2 connector
4. Connect M3 cable to M3 connector
5. Connect 1000 cable to 1000 connector
6. Connect 100 cable to 100 connector

In systems that use COUNTER as floor selection,

1. For elevators with speeds higher than 1m/s, 819 cable must be connected to 819 connector. For elevators with 1m/s and lower speed leave this unconnected.
2. Connect M1 cable to M1 connector
3. Connect 817 cable to 817 connector
4. Connect 032 cable to 032 connector
5. Connect 1000 cable to 1000 connector
6. Connect 100 cable to 100 connector



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Project Name Ecologic Lift Control System

Drawing Name Gripin and SayGöster Board Connection

Description



Drawer ZD - BA
Control SH

Version 1.00

Date 16.01.2009

Drawing No:5B Page 17



TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

AT UYGUNLUK BELGESİ

Belge No: TR/AT - 014

- Ürün Tanımı** : ASANSÖR KUMANDA KARTI
- Ticari Marka, Ürün Tipi** : "EEM" Markalı, Tipi: "ECOLOGİC"
- İmalatçının Adı ve Adresi** : EEM İTHALAT İHRACAT PAZARLAMA VE TİC.A.Ş.
Fevzi Çakmak Mah. Yaş Meyve ve sebzeçiler Sit. 10515 Sok No:24
KARATAY /KONYA/ TÜRKİYE
- Belge Sahibinin Adı ve Adresi** : EEM İTHALAT İHRACAT PAZARLAMA VE TİC.A.Ş.
Fevzi Çakmak Mah. Yaş Meyve ve sebzeçiler Sit. 10515 Sok No:24
KARATAY /KONYA/ TÜRKİYE
- İlgili Yönetmelikler** : ASANSÖR YÖNETMELİĞİ (95/16/AT)
ELEKTROMANYETİK UYUMLULUK YÖNETMELİĞİ (2004/108/AT)
- Test Laboratuvarı** : ELDAŞ Elektrik Elektronik Sanayi ve Tic.A.Ş.
- Laboratuvar Raporunun Tarih ve Numarası** : 04.03.2009, 06017-01 / EMC-0401 / 03-09
- Açıklamalar** : Asansör Kumanda Kartı EN 81-1/EN 81-2 EK F6'ya göre laboratuvar testlerine tabi tutulmamıştır.
- Sonuç** : Ürün, deney raporlarına göre ilgili yönetmeliğin şartlarını karşılamaktadır.



Mukadder İLHAN
Ürün Belgelendirme Merkezi
Direktifler Müdürü
15.04.2009

TSE tarafından verilen bu belge, kuruluşu uymak zorunda olduğu yasal zorunluluklardan muaf tutmaz.

AB UYGUNLUK BEYANI EC- DECLARATION of CONFORMITY

İMALATÇI / MANUFACTURER :

EEM İTH. İHR. PAZ.ve TİC. A.Ş.

TİP / TYPE :

EcoLogic

İMALATÇI ADRESİ / MANUFACTURER ADRESS :

Fevzi Çakmak Mah. Yaş Meyve ve Sebzeciler Sit.
10515. Sok. No:24 Karatay / Konya / Türkiye

ÜRETİM YILI / YEAR OF MANUFACTURE :

Etiket Üzerinde / See data label on product

ÜRÜNÜN ADI / PRODUCT NAME :

Asansör Kumanda Kartı / Lift Controller Board

SERİ NO / SERIAL NUMBER :

Etiket Üzerinde / See data label on product

UYGULANAN STANDARTLAR / THE FOLLOWING STANDARTS :

EN 81-1, EN 81-2, EN 61000-6-1:2007, TS EN 61000-6-1:2007-07, EN 61000-6-3:2007,
TS EN 61000-6-3:2007-07, EN12015:2004, TS EN 12015:2006-10, EN12016:2004, TS EN 12016:2007-01

UYGULANAN DİREKTİFLER / THE FOLLOWING DIRECTIVES :

Asansör Direktifi 95/16/AT / Lift Directive 95/16/EC
EMC Direktifi / EMC Directive 2004/108/AT

Üzerinde seri numarası yer alan ürün için, kullanıcıya teslim edilen kullanım kılavuzundaki şartlara uyulması durumunda yukarıda belirtilen standartlara ve direktiflere uygunluğunu beyan ederiz.

We declare eligibility of above mentioned standards and directives to comply with the represented conditions on the user manual for the serial number on the product.

TEST LABORATUARI / TEST LABORATORY

Eldaş Elektrik Elektronik A.Ş.
1.Organize San. Bölgesi. Büyük Selçuklu Bulvarı
No:2/A 06935 Sincan / Ankara / Türkiye

ONAYLANMIŞ KURULUŞ / NOTIFIED BODY

Türk Standartları Enstitüsü Ürün Belgelendirme
Merkezi Direktifler Müdürlüğü
Necatibey cad. No:112 Bakanlıklar / Ankara / Türkiye

EMC TEST BELGE NO / EMC TEST CERTIFICATE NUMBER : EMC-090213-01

FİRMA SORUMLUSU / RESPONCE OF COMPANY : Yön.Kur.Bşk. Aşır AKDEMİR

YER-TARİH / PLACE-DATE : KONYA / TÜRKİYE / 15.04.2009

YETKİLİ İMZA / LEGALLY BINDING SIGNATURE :

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10515. Sok. No:24 Karatay / Konya / Türkiye
Sicil No: 091 010 98 85
www.eem.com.tr / bilgi@eem.com.tr

Dear Customer,
 We, as EEM Co., Ltd. give utmost importance to the customer satisfaction. We are seeking your help about this. Please contribute developing our products by kindly spending a few minutes of your precious time to fill up this form and send it to us by post or fax. Thank you very much for your contribution.

❖ Please introduce us your firm?

Firm Name: _____ Contact Person : _____
 Address : _____
 Tel : _____
 Fax : _____

❖ What is your firm's area of interest?

- Installation Electronic equipment for lifts
 Equipment wholesale Mechanical parts production
 Control panel production Other

❖ How did you hear about us?

- Fair Internet
 Advise Magazine/Newspaper ads
 Other

❖ Which products of ours have you used? Are you satisfied with our service?

Service\ Product	Rescuer	Control Card	Speed Control Eq.	Control Panel	Revision Set	Door Card
Sale	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
Price	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
Quality	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
Delivery	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
Installation	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
Technical Support	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞
After Sale Service	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞	😊 😐 😞

😊 : Good 😐 : Medium 😞 : Bad

❖ Are you seeking for a new product, technical support or supplier firm?

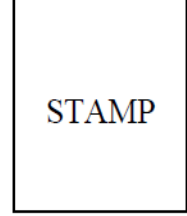
Yes No Explanation:.....

❖ In your opinion, what are the two prime factors for a product? (Please make at most two choices.)

- Confidence Easy Installation Price After Sales Service
 Delivery Time Technical Support



SENDER :



ADDRESS :

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