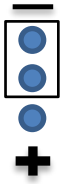
HD Eko 10 Control Card Key Names

Key	Description	
R **S** **T**	Main Supply	
MP	Mains Neutral	
1	Cabine Feed input	
2	Cabine Light Feed	
K3	Door Close Signal	
K5	Door Open Signal	
K15	Common signal of door open and door close	
KN	Safety Circuit Neutral	
120	Stop Circuit	 Maks. 230Vac
130	Door Plug Contact Circuit	
140	Door Lock Circuit	
M0	Floor counter magnetic switch input	
142	142 Signal	
KRC	Feedback Input of the main contactor. The normally closed contacts of the 100 signal of the main contactor must be connected serially to this entry	
S1A-S1B	Cabin Serial Communication Terminals (With HD EKO SERIAL cards)	
100	Control Circuits Feed (+24Vdc)	
1000	Control Circuits Feed (0V)	
PTC	Motor Thermistor & Panel Thermostat. As long as there is a signal	

HD Eko 10 Card Relay Outputs

Key	Description
11	Common RU1, RU2, RH, RF Contactors Feed Voltage
RU2	Up Direction Contactor
RU1	Down Direction Contactor
RH	High Speed Contactor
RF	Low Speed Contactor

HD Eko 10 Jumper Connection

3-jumper connection on the HD Eko 10 Card	
	
If 31, 32, 02 and 12 signal outputs are 100	If 31, 32, 02 ve 12 signal outputs are 1000

HD KLS Card Key Names

Key	Description
869	Revision Key (from the Revision Box)
500	Revision Downward Button
501	Revision Upward Button
FRI	Fire Alarm Contact
DEP	Earthquake Alarm Contact
DTS	Door Close Button
K20	Door Open Button & Door Jam & Photocell Contact
804	Overload Contact
817	Down Obligatory limit Magnetic Switch
818	Up Obligatory limit Magnetic Switch
869P	Revision Key (to Controller Card)
2G	G 7-Segment Indicator Outputs
190	Common Simple Command Output
X1-X10	In/Out Controller Recorder Inputs
31	Downward Arrow Light
32	Upward Arrow Light
2	Out of Service Lights
12	Busy Lights

Magnetic Switch and Magnets SETUP

Standard M0 counter system: Used in double speeds elevators where the decelaration distance is smaller then half of the distance between two floors.

Drive Type	Cabin Positioning Sensor	Early Door Opener Levelling	Magnetic Switch	Magnet
Double Speed	Standard M0 Counter	Not applicable	M0 (Bistable)	Round Magnet

M0 Counter System SETUP

On M0 counter system the cabin movement and floor information is detected with 2 types of magnetic switches.

- Floor counter and decelerating magnetic switch (SM0, Bi-stable)
- Floor stopper magnetic switch (SJF, Bi-stable) On this counter system bi-stable magnetic switches and round magnets are used. M0 is used as the floor counter and also as the decelerator. JF (142) switch works as the floor stopper.
- For the magnet arrangement please consult the connections diagrams.
- Connect the switch ends of the M0-100 and 142-100 terminals respectively.

SAFETY NOTES

An elevator (an elevator with safety measures such as an overload system and with automatic doors according to the standards) is risk free for its user and it falls upon elevator industrial companies like us and companies that take care of the installation and maintenance like yours to reduce any chance of risk of an accident to remissible levels. In the following some basic safety points are discussed in relation to the elevator control system. Please pay attention to all these measures to safely operate our lifts, and hence minimizing any risk of an accident. In order for the lift system to be according to the EN 81-1 / 2 standard, the control card, the control panel and electrical connections must be appropriately done. HEDEFSAN guarantees the compliance of the control card to the standards. But the control panel internal connections, external connections and other electrical connections are the responsibility of the installer. Do not pass the safety circuit in any way through a relay or contact. Hide the connectors of the plug and lock circuits connections in the door's free space in a way that it won't touch the door chassis. Take into account that water can flow from upper floors when the stairway is being cleaned and that also there could be liquid spillage inside the cabin. Therefore if possible the safety connections should be put into isolated boxes. If this it not possible they must be insulated with insulation tape. Door frames must be bounded to the grounding bus bar of the panel. When the grounding is not done, it is possible that the saftey circuit is bypassed through the door frame. Years of operation, dust, dirt, oil may cause the loss of functionality of the safety circuit. Do not forget to check the plug and lock functions on the periodic maintenance. HD ONE X S safety circuit operates with 220Vac voltage. The motor contactors are fed directly from the safety circuit. In this way it prevents involuntary movements outside the control of safety circuits.