



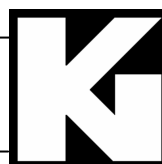
LIFT CONTROL SYSTEM WITH INDUCTIVE TRANSMISSION



GENERAL

The lift control system with inductive transmission was developed to provide a save signal connection between the cabin and the drive station, without using a fixed cable connection.

The signal connection is made via an electrically insulated rope or via special signal lines.



COMPONENTS

The following main components are needed for an elevator control system:

- Drive station
 - Power cabinet
 - Control cabinet
 - Transmitter / receiver coils
 - Charging station for the cabin

- Cabin
 - Power supply
 - Electronic box
 - Connection box
 - transmitter / receiver coils
 - communication box (optional)



Machine room with transmitter / receiver coils

DRIVE STATION



power cabinet



control cabinet

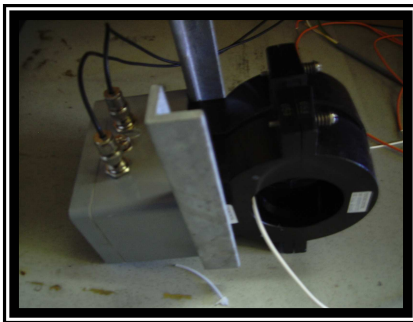
The entire drive control is housed in a power and control cabinet.

Depending on the available space, the whole system can be built in one or two separate cabinets.

The motor control is performed with a frequency inverter.

For the signal transmission to / from the cabine, a transmitter / receiver coil is needed on the regulator rope.

For an uninterrupted power supply of the cabin, batteries are installed in the cabine, which will be charged in a station by conductor rails.



transmitter / receiver coil



conductor rail

CABIN



cabin equipment
(power supply, electronic box, transmitter/receiver coil, connection box)

The cabin control system is divided into several units to optimize the available space in the cabin.

The units are:

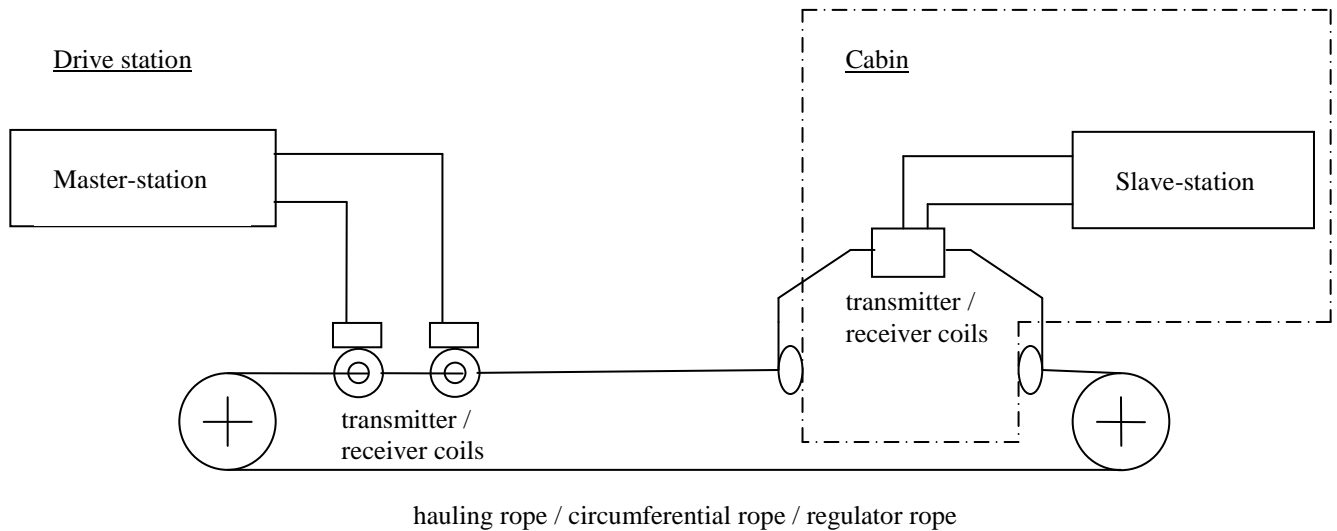
- power supply / battery charger
- electronic box
- connection box
- transmitter / receiver coil
- communication box (optional)

PRINCIPLE OF THE TRANSMISSION SYSTEM

The transmission system is suitable for signal transmission between a master and slave station via an electrically insulated wire / rope.

(hauling rope, circumferential rope, regulator rope etc.)

The signals are transmitted via transmitter / receiver coil to the rope.



One safety signal from a slave station (e.g. cabin) can be transferred to the master station (e.g. drive station).

There can be additional digital signals (cabin calls, control signals) transferred between the master and slave stations.

The master station is prepared, to hold an additional telephone modem to communicate with the slave station (telephone, intercom etc.).

The slave station requires an additional communication box for the voice transmission.

If necessary, several transmission systems can operate over the same rope (e.g. additional connections to the remote station).

In this case, for each transmission system a master and slave station is needed with their own transmitter / receiver coils.

TRANSFERABLE SIGNALS

The following signal connections are possible between two stations:

<u>master - station</u>	<u>transmission - direction</u>	<u>number of signals</u>	<u>slave - station</u>
safety signal	←	1	safety signal
digital signals	→	8	digital signals (relais output)
cabin calls	←	15	cabin calls (max. 8 calls with LED-feedback)
digital signals (relais output)	←	8	digital signals
voice transmission (optional)	↔		voice transmission (optional)

The above shown connections are the maximum possible signals for the standard lift control system.

For the voice transmission, an additional modem is required in the master station. In the slave station, the optional communication box is required.

ADDITIONAL INFORMATIONS

For further informations please contact the following address:

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