

Frequencyinverter-based ELEVATOR DOOR CONTROL & MONITORING

**MOBILE & TABLET PROGRAMMING
USABILITY**

for facility and propulsion technology



Technology fields

Propulsion technology, MCR technology

Anforderungen an das Projekt

The **project objective** was the development of a control system for lift doors of different weight classes and door widths. In normal operation, a specific and configurable travel profile is traversed. In addition, the controller must detect a door blockage and initiate predefined measures. During commissioning, all relevant parameters can be configured. With a WLAN dongle, the parameters can be accessed from any terminal with a web browser and settings made very easy.

Facts/Highlights

- Control of a three-phase door drive
- Operation of the lift door according to a predetermined and freely configurable travel profile
- blockage detection
- Possibility to connect a light grid to detect objects in the door closing area
- Automatic door width and door weight determination
- Connection of a WLAN dongle for parameterization and for updating the firmware via a web browser (on a smartphone, laptop, etc.)

Services of KNESTEL

Potential analysis, target price estimation, project management, specifications, project planning, development of software and hardware, electrical and mechanical design, EMC test, prototyping, series production

Possible Applications

- Automatic elevator door control
- Gate controls, such as Garage doors, roller shutters and garden gates
- Automatic door systems, such as Sliding door systems, revolving door systems and revolving door system

About KNESTEL: Knestel has been developing and producing customized electronic and mechatronic special solutions in the fields of motor and machine control, frequency converters, image processing, MCR technology, software development, radio, bus systems and gas analysis for 40 years. We support our customers from the idea to the finished implementation. Individual solutions and concepts - technically up to date. Our production - electronics manufacturing, device and switch cabinet construction, Production of subassemblies, assembly and mechanical processing - is equipped with the latest technology.