

we invent solutions

Laser triangulation sensor for exact distance determination



for building services, MCR technology

Technology field

Software development, MCR technology, bus systems and radio, optical measuring systems

Project requirements

The **project objective** was the development of a price-optimized laser triangulation sensor for non-contact distance measurement. In addition, the power supply and the data transfer should be done via an USB interface.

Facts/Highlights

- Updates via USB interface directly possible
- Dimensions: L x W x H = 75 x 65 x 25 mm
- 5 V power supply via USB
- Temperature range 0 to 40 °C
- Measuring range: 80 mm to 140 mm
- Accuracy: ± 0,2 mm

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

- High-precision distance measurement in various areas
- Range monitoring by combination with swivel motor
- Measuring ranges and accuracies customizable

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.

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