



Low Pressure Sensor using Optical Measurement Technique

Beck GmbH Druckkontrolltechnik



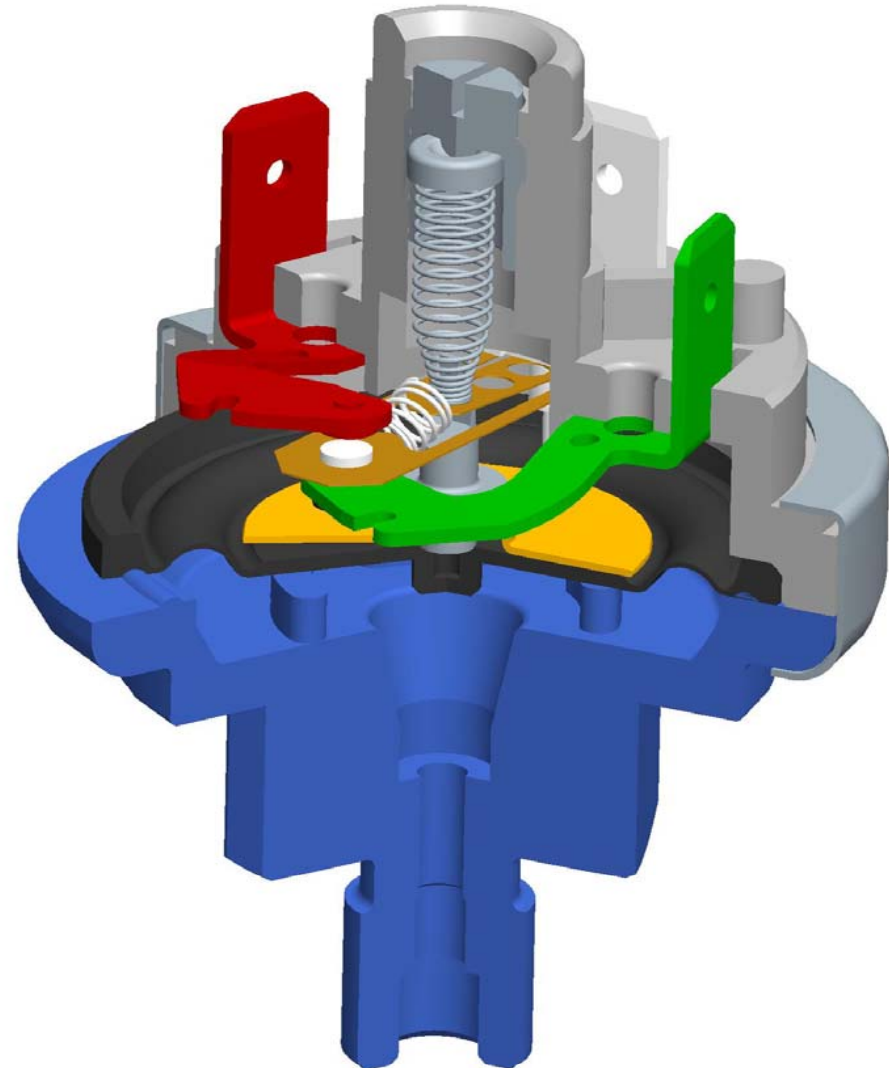
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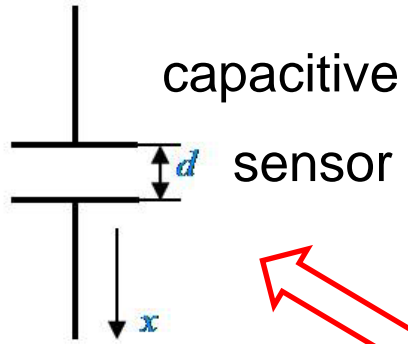
- ❑ state of the art
- ❑ evaluation of measurement principles
- ❑ optical measurement concept
- ❑ status and outlook



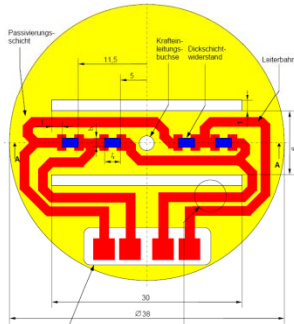
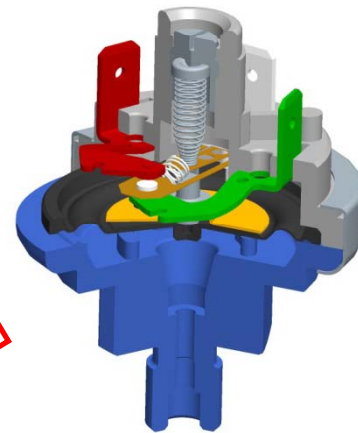
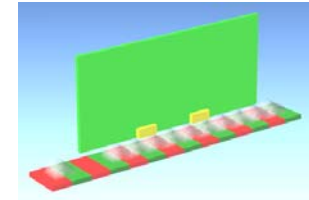
- ❑ switch in the low pressure range (threshold 100mbar)
- ❑ elastomeric membrane as basis
- ❑ continuous detection of deformation
- ❑ double-pole mechanical switch
- ❑ integrated leaf spring



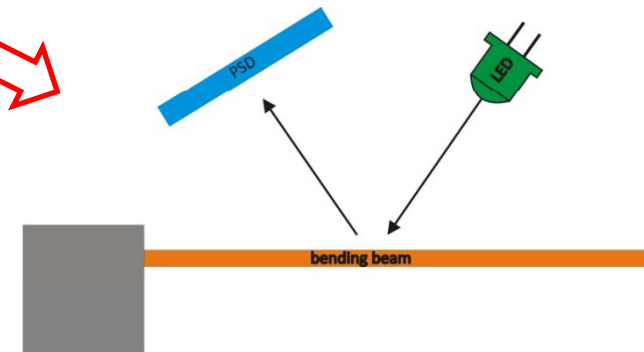
Evaluation of measurement principles



using MR - sensors



resistance strain gauge



optical measurement technique

Actual status of work:

- evaluation model for testing temperature stability and mechanical function
- development of new electronic management
- development of test equipment for later series production

Outlook:

- life tests using prototypes
- preparation of series production
- search of sub-contractors

