

Mechanical interlock laser shutter



Front-view of the mechanical interlock laser shutter

Benefits:

- Fast reaction-time
- Easy to use
- No computer or additional software needed
- Compact and flexible modular design
- Automatic beam blocking while power cut
- Low energy consumption and long lifetime

The mechanical interlock laser shutter for our LDV systems is an easy and fast solution for laser safety purpose. Especially the fast time of reaction and the closing function while the device has no power supply shows the advantage of this compact tool.

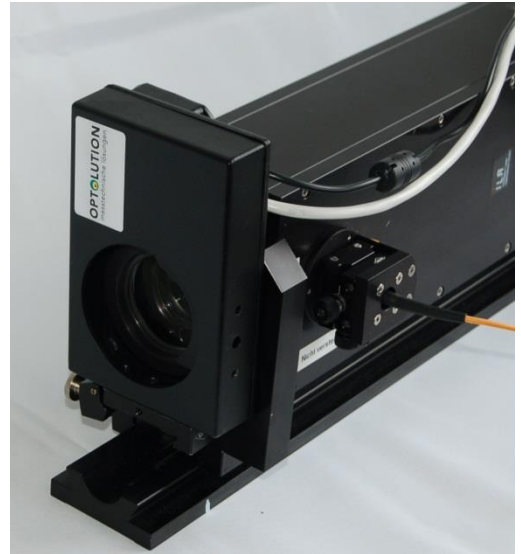
A typical application is at places where people often have to work in front of the LDV probe. This could be e. g. a wind tunnel for calibration of some flow meters, where the test object must be changed. Instead of switching the laser off and on each time, which is time consuming, you can simply interlock the laser beams with the laser shutter and save time. The LDV measurement will not be affected by the laser shutter.

Due to modular and flexible design-concept, the shutter system is highly customizable. The trigger for the system can be modified for each individual requirements of the customer.



Technical Data

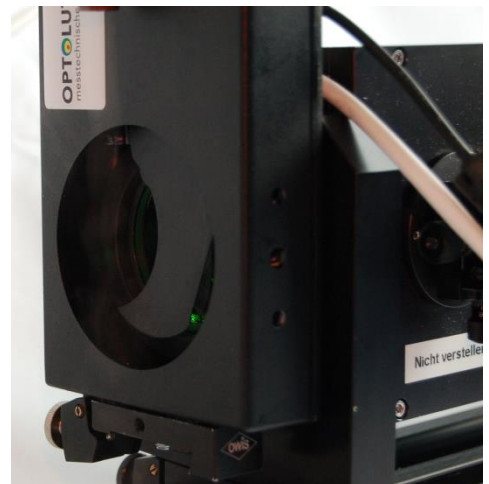
- Power supply: 24 V DC via external power supply
- Power consumption: 2 – 4 W
- Time for reaction: < 50 ms
- Length of the power cable: 3 m
- Without power the shutter is closed
- Usable for lenses with a diameter up to 72 mm
- Max. operating temperature: 75°C
- Return spring torque: 0.0055 – 0.009 Nm
- Cycles of operation: two million
- Black powder-coated aluminium housing
- Dimensions: (L) 145 mm, (B) 95 mm, (H) 31 mm



Shutter system mounted on a LDV probe



Open shutter position



Closed shutter position

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