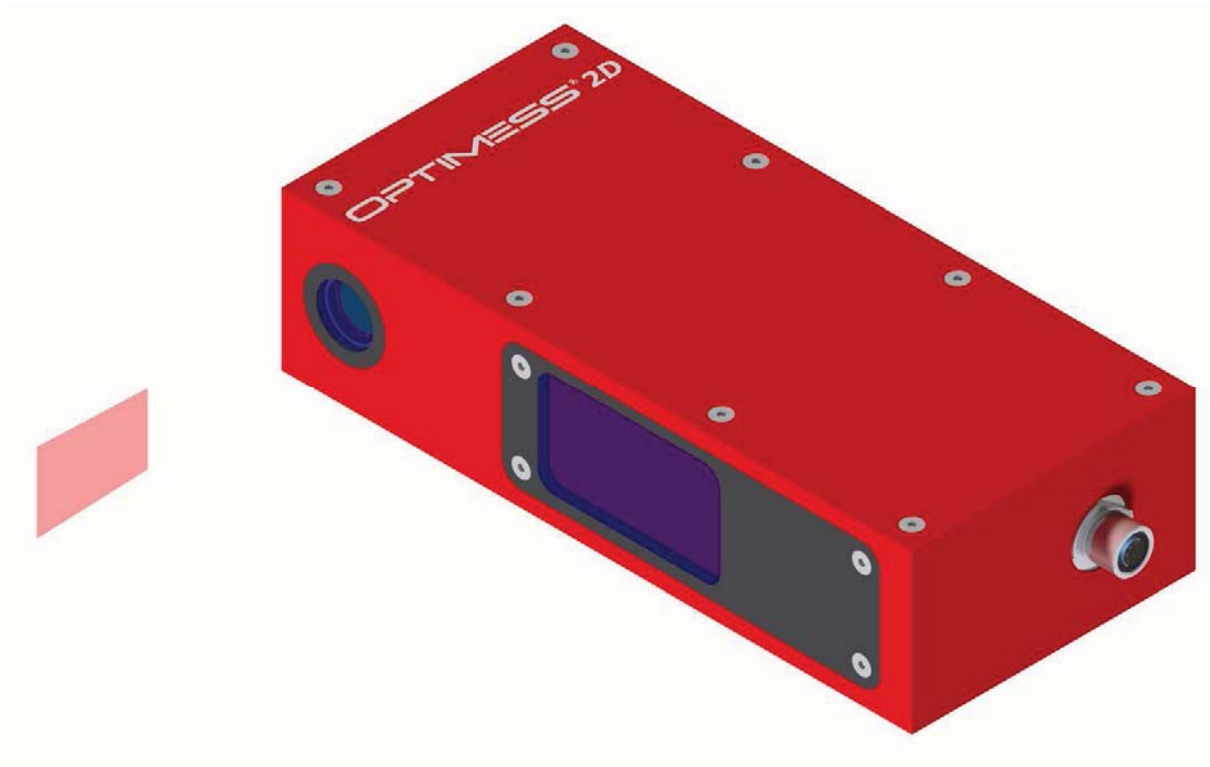


## Non-contact Laser Measuring System



### OPTImess 2D

The non-contact operating, dimensional light section sensor **OPTImess 2D** is a special version of a punctiform **OPTImess** sensor.

In the **OPTImess 2D** sensor, the laser beam is projected as a line on the target by an optical system. This line is deflected to a high resolution CCD matrix by the receiver optic. The integrated controller reads out this projection and calculates X/Y c-ordinates from it. These are output on the CAN-bus interface.

By simple parameterisation with the enclosed PC software, the measuring field of the **OPTImess 2D** can be extended or limited so that an optimum ratio between the resolution and the scan frequency is always achieved. The software integrated in the measuring head enables pre-processing of the measured profile for various standard applications such as gap measurement, weld measurement, angle measurement, step and height measurement etc. The parameterisation also takes place with the enclosed PC program.

Typical applications for the **OPTImess 2D** are:

- Inspection of welds
- Profile measurements
- Geometry measurement
- Gap dimension determination
- Robot positioning and robot control