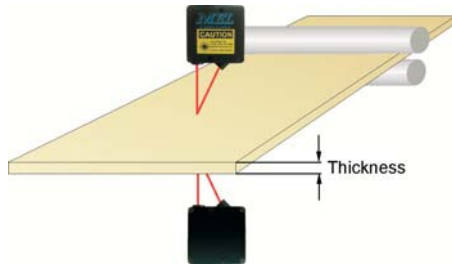


# Thickness Measurement with LASER Sensors

MEL thickness measuring systems are used in many fields of application:

- Woodworking and metal industry: thickness measurement of plates and bands
- Products of extrusion lines and calenders
- Materials like floorings, roofing, sealings etc.
- Textiles
- Control of material doubling to avoid tool or machine damage

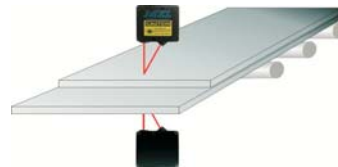
and so on



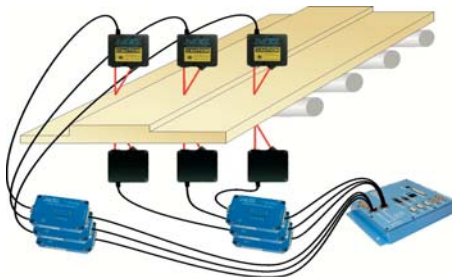
## Double-sided measuring method:

Two sensors measure on the upper and the lower side of the object. The material thickness results from the addition of the measuring signals.

*Application:* Detection of metal sheet doubling:

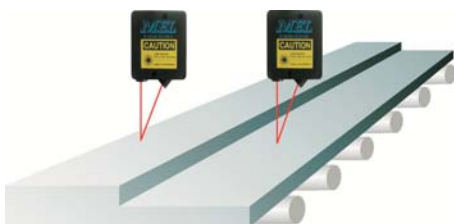


The thickness can also be measured with a one-sided sensor system: one or more sensors are measuring onto one side, the reference distance will be the fixed underlayment of the object. The material thickness results from the difference of reference and object distance.

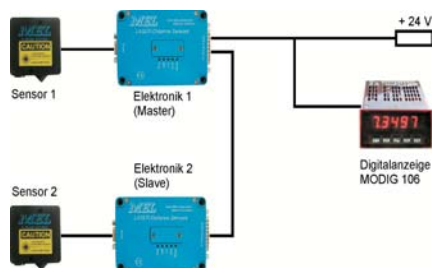


## Multiple measuring systems:

The signals of up to 4 thickness measuring systems can be simultaneously evaluated with a MEL i-Control (e.g. thickness measurement of profile plates).



A special application of the thickness measurement is the differentiation measurement. With this method differences in height can be detected.



## Digital Display MODIG 106:

The digital display MODIG 106 for displaying all important values, indicators and units is optionally available at MEL. The device is operated via 5 buttons at the front panel.



*Cabling of thickness and differentiation measurement system with one sensor pair*