

LASER MEASURING SYSTEMS

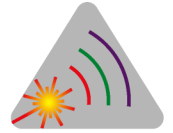


OPTIline

OPTIline is a laser-measuring system featuring a separate transmitter (laser) and receiver (detector). By means of the laser and its optical equipment, a line of parallel light is created in the required length, which is being displayed on the detector. If a measuring object between laser and detector interrupts the line, part of the detector is in its shade. The bright/dark transition is very clearly determined on the photo detector (shadow measuring method).

The **OPTIline** systems provide simple and exact measuring or detection of:

- diameters
- widths
- edges/rims
- roundness and vertical impact
- oscillations



Technical specifications

OPTI/line

measuring method	shadow measuring principle
measuring ranges MR	8; 24; 64mm
resolution	4; 4; 12µm
distance transducer-receiver	80 to 1000mm
linearity (typ.)	< +/- 0,05% of MR
sample frequency	up to 10 kHz (depends on the detector)
signal output	analogue +/- 5V; +/- 10V; 0-10V; 0-20mA; 4-20mA
power supply	+/- 15V 150mA
light source	LED
detector	CCD or PSD detector (corresponding to the application)
operating temperature	0° - +40°C
thermal drift	< 100 ppm of MR/°C
vibration	5g (IEC 68-2-6)
shock	25g (IEC 68-2-27)
protection class	IP 65
size (WxHxT)	transducer 60x160x28mm or 100x280x30 receiver 60x40x28mm or 100x 45x30
weight	1500g/ 2500g