## Measurement

Measurement of parts, monitoring of sag, measurement of thickness and distance, measurement of path and filling level



In many processes similar values, such as the distance or thic ness of an object, must be determined. In such applications, tl laser distance sensors of the FT 50-RLA series (which operat using the triangulation principle), and the particularly far-sight FR 90-ILA (which can measure distances of up to 250 m with millimetre accuracy using light time-of-flight technology), have proved particularly effective.

The vision sensors of our VISOs Beries can also be used for demanding measurement tasks. The VISSOR ar can precisely measure solar cells and detect even minimal edge breakouts. As a result of its narrow sound beam All distances in a part can be measured In addition, the Eyesight vision system, with a function library the UT 20-S ultrasonic sensor - used and evaluated with the distance tools of with over 100 functions, is available for detailed inspections of the wells of microplates – allows the dimensional accuracy.



Specialist for medical technology: detection of objects through the small-a single inspection program. est of openings and drilled holes with a diameter of less than 5 mm.



Precise distance calculation: the Eyesight vision system. Radii, angles and drilled holes can also be inspected in





Application examples	Products
Measurement of turned parts	2
Monitoring sag on material webs	6 7
Regulating dancer rolls and monitoring sag	3 4
Determination of coil thickness on a packaging machin	e 4 5 7
Filling level measurement	6 7
Distance measurement on a robot gripper arm	3 4 7
Geometrical measurement of solar wafers	1

1	VISORSolar
2	Eyesight – freely programmable vision system
3	FT 25-RA – miniature distance sensor
4	FT 50/80-RLA – distance sensor
5	FT/FR 9x – laser distance sensors
6	UT 20 – ultrasonic sensor
7	FT 55-RLAP – distance sensor
8	Accessories