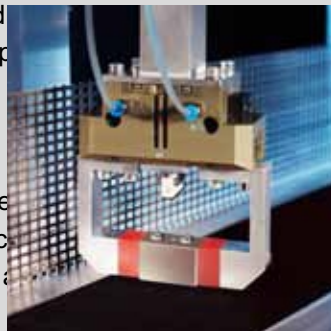# Positioning

Front-edge detection, Pick & Place, quality inspections

🇩🇪 made in Germany

The positioning of parts is one of the central processes in industrial production. SensoPart offers a comprehensive range of products for this purpose, with switching and vision sensors.

Pick & Place for example: in order to pick up a workpiece or component from a transport belt using a targeted robot gripper, it is necessary to know its exact position. The small photoelectric proximity sensors with background suppression, in the FT 10 and FT 25 series, are ideally suited for such tasks.

Use of a vision sensor of the VISOR® series – which can detect numerous features "at a single glance" – is recommended if the X/Y position and orientation, or complex assemblies, are also to be inspected for correct and complete assembly in a Pick & Place application.

Pick & Place:
A robot arm grips components from the transport belt in order to feed them in to the next production step in the correct orientation. A laser proximity sensor with background suppression from the FT 10 sub-miniature series, which can be directly mounted in the robot gripper, signals the arrival of the next component.

Safety distance:
Fibre-optic systems from SensoPart are the solution when installation or environmental conditions are restricted, hot or dirty. Robust sleeve and fibre materials in the fibre-optic cable also offer excellent protection against aggressive chemicals.

Application examples	Products
Inspection of correct fitting of bottle tops	3 5 6
Precise front-edge detection on printed circuit boards	6 7
Pick & Place and robotic applications	1 2 3 4 5 6 7
Inspecting plastic parts (overfilling, underfilling)	1 3
Monitoring positions and positioning components	1 2 3 4 5 6 7
Inspecting position and breakages of solar wafers	2

1 VISOR object sensor
2 VISOR Solar
3 Eyesight – freely programmable vision system
4 FT 25-RA – miniature distance sensor
5 FT 50-RLA – distance sensor
6 Photoelectric and proximity sensors
7 Fibre-optic sensors and fibre-optic cables
8 Accessories