

Customer Insights

We love variety – and no two printed circuit boards are the same

"Process safety is powerful. Even with the variety of printed circuit boards and their different colors and structures, the light barriers are highly reliable in terms of detection."



A look at practical sensor

Applications / processes

At various stages of processing, printed circuit boards need to be precisely positioned using optical sensors that detect an object's presence or trigger a subsequent process

- SMD assembly (loading, solder paste printing, inspection, mounting, soldering, AOI, etc.)
- Additional process steps (dispensing, bonding, protective coating, etc.)

Challenges

Object properties altered over the process steps:

- Varying colors, e.g., green, blue, violet, black
- Glossy, reflective surfaces and electronic components
- Irregular shapes/geometries as a result of cutouts and holes
- Protective coatings that absorb light

Altered environmental conditions:

Disturbances caused by lights from LED machines/inspections

Added value



System availability despite changing object properties and environmental conditions



Time savings when changing formats thanks to one-time teaching

Use the contact form to inform us of any requests. Our technical partners are happy to help.

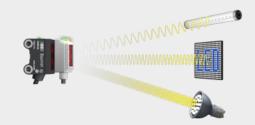


Our solution

- O200/O300 diffuse sensors with background suppression
- Extended range of up to 120 mm, additional functional reserve for black printed circuit boards or printed circuit boards with protective coatings, for example



Line array for perforated objects



Unrivalled ambient light immunity