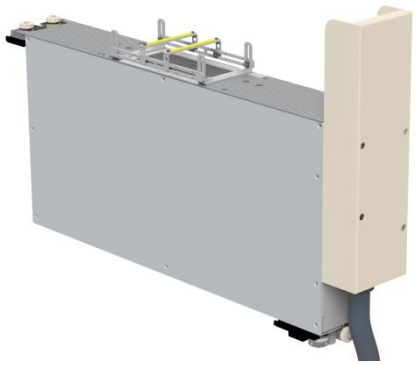
ONTHEFLY

Image processing module for position detection of components



After feeding the components into the machine, they are sucked by a suction cup on the axis system. Before further processing by other modules the correct alignment of the components on the suction cup is verified by the ONTHEFLY image processing module. In the event of incorrect alignment, the respective correction values are determined; automatic repositioning of the axis system takes place to correct the position of the component.

Product description/functions

- A camera, object lighting (each can be triggered)
- "On-the-fly" passage of the image processing module by the axis system without stop at full speed
- At this time, scanning of the position of the component on the suction cup "on-the-fly": Triggering of camera incl. object lighting, data acquisition
- Exposure time 30 µs at an object speed of up to 3 m/s
- Camera resolution 1280 x 1024 px, field of view approx. 32 mm
- Automatic analysis of the acquired data to verify the position of the component on the suction cup
- In case of incorrect position of the component: Determination of the respective correction values
- Automatic repositioning of the axis system for the position correction of the component
- External trigger input for hardware-controlled snapshot release

Version 11/21

Options

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Technical data

Dimensions W/H/D [approx. mm]	120 x 512 x 827
Weight	20 kg
Media:	
AC	–
DC	24 / 12 V
Compressed air	–
Vacuum	–
Other	Ethernet 100 Mb
	Digital trigger input

Accessories

• Specific component deposits
• Teach masks for image processing verification

- Ordering designation: ONTHEFLY-SCS
  ↳ Single (Camera Solution)
  ONTHEFLY-XCS
  ↳ Extended (Camera Solution)

Detailed drawings

