

Checkbox Compact Flex

FESTO



Total quality in the feeding process

The compact alternative to the familiar and well-proven Checkbox.

Totally cost-effective

Contactless type identification, orientation detection and quality inspection ensures a constant smooth flow of parts within production processes.

Totally user-friendly

The teach-in function of the Checkbox Compact Flex allows it to learn parts automatically – without the need for any programming. User-friendly CheckOpti software is provided to allow fine tuning of the detection and monitoring of even the smallest contour variations or other quality-relevant variables.

Totally Festo plug and work®

The Checkbox Compact Flex is the answer to all part identification needs, particularly where the available installation space is limited. Thanks to its compact industrial design and clear interface definition, it can easily be integrated on an individual basis, even into existing systems. Complex in-house manufactured devices are now a thing of the past.



Type identification

Orientation detection

Quality inspection

503.2.PSI →

Product Short Information

Checkbox Compact Flex

The Checkbox Compact Flex consists of a housing which comprises all the necessary components. In addition to the user interface (keys, LEDs, display), the plug connectors for the electrical connection of actuators, buffer zone sensors, diagnostics PC, power supply, encoder and a master PLC there is, most importantly, the imaging sensor system (lens and camera).

Special feature
The vertical arrangement of the lens of Checkbox Compact Flex permits the inspection of flat parts such as gearwheels, sheet-metal parts, rubber seals, etc., using for example a transparent conveyor belt or a top lighting method.



General technical data

Type		CHB-C-F
Part range		Flat, rotationally-symmetrical parts and pre-oriented parts of any shape
Operating distance	[mm]	95 ... 99
Field of vision	[mm]	42 ... 45
Camera resolution	[mm]	0.04
Exposure time	[µs]	128 ... 1024
Memory capacity (part types)	16	
Counting function		Yes
Quantity pre-selection		Desired quantity of “good” parts can be pre-selected via the diagnostic interface
Counting range		1 ... 2 billion
Orientation		Max. 8 different orientations per part type Part orientation function within checking and counting process can be switched off via the diagnostic interface
Temperature range: Operation		-10 ... +50 °C
Temperature range: Storage		-20 ... +70 °C
Protection class		IP64
Installation site		Dry, screened from extreme external light sources, cleanest possible ambient air

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