

Checkbox Compact

Systematically safer!

“Total quality” in the feeding process:

The compact alternative to the familiar, tried and tested Checkbox.



“Alarm system!”



- **Purely cost-effective**

Contactless type identification, orientation detection quality inspection of small parts guarantees a constant, smooth supply of workpieces in the production process.

- **Pure ease of operation**

All three Checkbox Compact variants feature a teach-in function that enables them to “learn” workpieces automatically –

without the need of any programming.

The user-friendly CheckOpti software permits fine-tuning during acquisition and monitoring of the most minute contour deviations or quality-related measured variables.

- **Pure Festo plug & work® – clearly defined**

Anywhere and in particular where limited installation space

is available, the Checkbox Compact is the answer. Thanks to its compact, industrially compatible design and clearly defined interface it can also be integrated individually into existing systems. Complex in-house facilities are therefore also a thing of the past.

**First in Motion –
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503.1.PSI →

Product Short Information

Checkbox Compact



Checkbox Compact is available in 3 variants.

- **Checkbox Compact Classic**
Basic unit with separate rejection of incorrectly oriented and defective parts.
- **Checkbox Compact PLC**
Like the “Classic”, but with additional I/O for communicating with a master PLC as well as the option of encoder linking.
- **Checkbox Compact PLUS**
Like the “PLC”, but with a type memory for up to 12 workpieces as well as enhanced functionality with regard to quality control.



Checkbox Compact comprises a housing that accommodates all of the necessary components. As well as the user interface (push-buttons, LEDs, display), the connectors for the electrical connection of actuators, buffer zone sensors, diagnostic PC, voltage supply, encoder and master PLC, the housing also holds all of the

imaging sensor system (optical devices, lighting, camera). The Checkbox Compact consists of a housing which comprises all the necessary components. In addition to the user interface (keys, LEDs, displays), the connectors for the electrical connection of actuators, buffer zone sensors, diagnostics PC, voltage supply,

encoder and master PLC, there is the entire imaging sensor system (optics, lighting and camera). The optical channel underneath the Checkbox Compact is open towards the rear side, thus it can be easily integrated in the material flow.

Type	CHB-C-C	CHB-C-P	CHB-C-X
Component spectrum	rotationally symmetrical parts and preoriented parts of any shape		
Length [mm]	depending on the conveyor speed and required resolution		
Diameter [mm]	0.5 ... 25		
Light passage at optical channel [mm]	60		
Inside height at optical channel [mm]	40		
Camera resolution [mm]	6/100		
Exposure time [µm]	128 ... 1,000		
Number of type memories	1	4	12
Counter function	–	yes	
Quantity preselect	–	desired quantities of good parts can be preselected via the diagnostic interface	
Counter range	–	1 ... 2 billion	
max. no. of orientations	8		
Operating temperature range	–5 ... +50 °C		
Storage temperature range	–20 ... +70 °C		
Degree of protection (complete unit)	IP64		
Installation site	dry, screened from extreme external light sources, cleanest possible ambient atmosphere		



Subject to change

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