

Checkbox CHB

Technical data

Identibox

CHB-IB

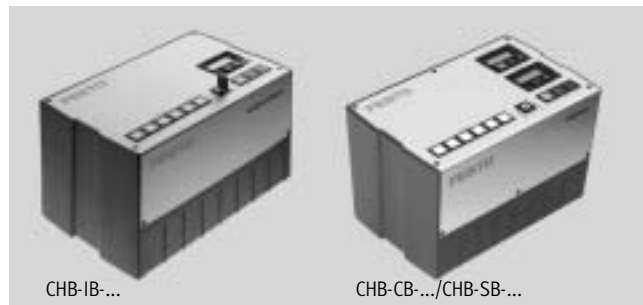
Countbox

CHB-CB

Sortbox

CHB-SB

FESTO



General technical data			
For part sizes	∅ 10 mm	∅ 30 mm	∅ 80 mm
Component ∅	0.5 ... 10	3 ... 30	3 ... 80
Component length [mm]	3 and above	3 and above	5 and above
Component range	Rotationally symmetrical parts and pre-oriented parts of any shape		
Camera resolution [mm]	0.02	0.1	
Exposure time [μs]	72 ... 8 192		136 ... 8 192
Number of part memories	48		
Orientation	Max. 8 different orientations per part type		
Belt speed [mm/s]	200 (adjustable: 100 ... 250)	300 (adjustable: 100 ... 400)	
Conveyor rate for good parts	Dependent on part size, as well as number and frequency of actual and required part orientation. Example: 4 screws (M3x25) per second, correctly oriented for assembly 4 shafts (∅ 18 x 5 mm) per second, for quality inspection		
Only with CHB-CB and CHB-SB			
Quantity pre-selection	Required quantities can be pre-selected separately for all stored parts		
Counting range	1 ... 10 million per part type		

Electrical connection technology			
For part sizes	∅ 10 mm	∅ 30 mm	∅ 80 mm
Operating voltage [V AC]	85 ... 264 (at 50/60 Hz), automatic detection		
Max. power consumption [VA]	100		
Nominal value for short-circuit protection [A]	1, slow-blow, automatic circuit-breaker integrated into mains switch		

Operating and environmental conditions			
For part sizes	∅ 10 mm	∅ 30 mm	∅ 80 mm
Operating medium	Filtered, unlubricated compressed air		
Operating pressure [bar]	0 ... 6		
Temperature range [°C]	10 ... 50 (non-condensing)		
Protection class	IP54		
Installation site	Dry, screened from extreme external light sources, cleanest possible ambient air		

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Interfaces			
For part sizes	Ø 10 mm	Ø 30 mm	Ø 80 mm
PLC coupling outputs	The connection of an external power supply is recommended in order to achieve full electrical isolation. Load per output: < 100 mA, total load < 1 A		
	Ready for operation Error output Feeder control Conveyor belt control Part acceptable and correctly oriented Part acceptable but incorrectly oriented Wrong part		
	Additionally with	CHB-CB CHB-SB CHB-SB	Pre-selected counter reading reached
PLC coupling inputs	External type select External start Buffer zone sensors External sensor		
Additionally with	CHB-CB CHB-SB	Start new counting cycle	
Diagnostic interface	RS 232 interface for laptop connection (cable included in scope of delivery)		

Weights [g]			
For part sizes	Ø 10 mm	Ø 30 mm	Ø 80 mm
Control unit	6 000		
Conveying unit with 2 reject positions	4 000	7 000	12 000