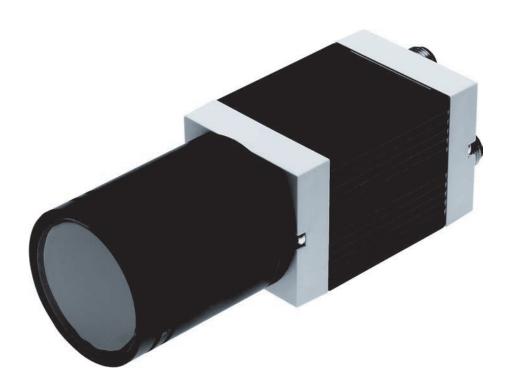
11 Image processing systems



- Vision sensors for reading 1D bar codes and 2D matrix codes or for simply quality inspection
- Compact vision system SBOx-M:
 Intelligent compact vision systems for diagnostics and monitoring of fast motion sequences
- + Compact vision systems SBOx-Q: Intelligent cameras for precise positioning of axes, type identification, position detection and 2D quality inspection of moving and stationary parts

Highlights

SBSI

Code reader / Object sensor

- Vision sensor with integrated lighting/lens
- + Enables reading of 1D/2D codes or quality inspection of parts

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SBOC-M

Compact vision system

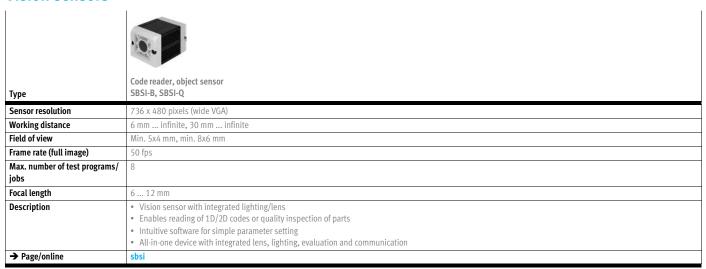
- High-speed camera for diagnostics and for function monitoring of fast motion sequences
- + Electronics integrated in the camera

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FESTO

Vision sensors



Diagnostics for fast processes

Туре	Compact vision system SBOA-M	Compact vision system SBOC-M
Sensor resolution	640 x 480 pixels (VGA)	640 x 480 pixels (VGA)
Working distance	Depends on the lens chosen	Depends on the lens chosen
Field of view	Depends on the lens chosen	Depends on the lens chosen
Frame rate (full image)	27 241 fps	27 241 fps
Exposure time	1 1000000 μs	1 1000000 μs
Description	Systainer with compact vision system SBOC-M	 High-speed camera for diagnostics and commissioning as well as for function monitoring of fast motion sequences Recording and storage electronics integrated in the camera For standard lens with C mount connection Can be networked via Ethernet Compact dimensions, low weight
→ Page/online	sbox	sbox

Orientation and quality inspection

Туре	Compact vision system SBOC-Q	Compact vision system SBOI-Q	Vision system CHB-C-N
Sensor resolution	1280 x 1024 pixels (SXGA), 640x480 pixels (VGA), 752 x 480 pixels (WideVGA)	640 x 480 pixels (VGA), 752 x 480 pixels (WideVGA)	2048 pixels/line
Working distance	Depends on the selected lens	20 1000 mm	
Field of view	Depends on the selected lens	14x10mm 250x390mm, 7.9x5.5mm 195x125 mm	
Frame rate (full image)	27 241 fps	60 150 fps	
Exposure time	1 1000 ms	18 1000 ms	
Description	Intelligent field-based camera For 2D quality inspection, position and rotary orientation sensing, reading of 1D and 2D codes, reading of optical characters (OCR) Integrated full PLC (CODESYS) Ethernet and CAN for communicating with higher-order controllers	Intelligent field-based camera For 2D quality inspection, position and rotary orientation sensing, reading of 1D and 2D codes, reading of optical characters (OCR) Integrated full PLC (CODESYS) Ethernet and CAN for communicating with higher-order controllers	Intelligent line-scan camera For orientation recognition and quality inspection of small moving parts Encoder connection
→ Page/online	sbox	sbox	chb-c