

# Vision sensors SBSI

FESTO



## Straightforward checking!

### Highlights

- All-in-one device with optical system, lighting, evaluation and communication
- Simple and intuitive: just 3 steps to the ideal solution
- Powerful and fast software tools
- External light SBAL can be connected directly – Festo plug and work

The uncomplicated way to start with industrial vision systems: the vision sensor SBSI allows you to implement simple camera applications quickly and inexpensively – even without expert knowledge. Whether you want to read codes or carry out simple quality inspections, the SBSI can be commissioned in just 3 steps. Optics, lighting, evaluation and communication are fully integrated.

#### Low-cost and efficient

As a high-performance code reader for 1D/2D codes the SBSI-B can also detect hard-to-read data matrix codes. And as an object sensor the SBSI-Q reliably carries out simple quality checks.

Depending on the model, there are various focal lengths/image areas and lighting colours available. External lighting can be connected and controlled directly – Festo plug & work

#### Versatile in use

The SBSI is ideal in the automotive industry, in assembly and handling technology, in the food and beverage industry, in end line packaging, or in the pharmaceutical industry.

#### Quick commissioning, intuitive operation

Three steps to operation:

- Adjust image with auto functions
- Select detectors
- Define output

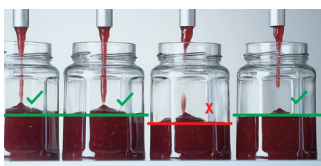
Your application can be set up in no time.

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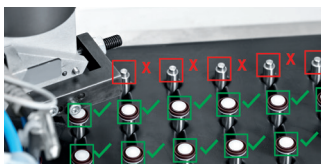
## Application examples



Reading directly marked data matrix codes, e.g. in the automotive industry

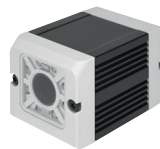


Filling level checks, presence of cover, label/marking checks, completeness checks, e.g. in the food and packaging industry

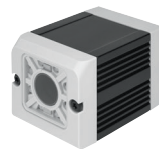


Checking for the presence of head and seal, e.g. in small parts assembly

## Complete portfolio



Object sensor  
SBSI-Q



Code reader  
SBSI-B



Area light  
SBAL



Ring light SBAL



Connecting cables  
NEBS and NEBC



Mounting components  
SBAM

Technical data	
<b>Code reader functions (SBSI-B)</b>	1D barcodes: EAN, UPC, RSS, 2/5 Interleaved, 2/5 Industrial, Code 39, Code 93, Code 128, GS1, Pharmacode, Codabar 2D codes: ECC200, QR Code, PDF 417
<b>Object sensor functions (SBSI-Q)</b>	Simple quality checks and position sensing, checking for completeness, presence/absence etc. (incl. 360° position tracking)
<b>Lighting</b>	Integrated, powerful LED lighting Colours: red, infrared, white (depending on the model) External lighting can be simply plugged in; triggered by the SBSI
<b>Optical system</b>	Integrated; focal lengths (depending on the model):  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>f = 6 mm</b> Working distance: 6 mm – infinite Field of vision: Min. 5 x 4 mm</p> <p><b>x = 120 mm    y = 78 mm</b></p> </div> <div style="text-align: center;"> <p><b>f = 12 mm</b> Working distance: 30 mm – infinite Field of vision: Min. 8 x 6 mm</p> <p><b>x = 57 mm    y = 37 mm</b></p> </div> </div>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• Ethernet protocols: TCP/IP, FTP, SMB</li> <li>• PROFINET, Ethernet/IP</li> <li>• RS232/RS422 (code reader models only)</li> <li>• I/O: 2 inputs, 4 outputs, 2 selectable inputs/outputs (all switchable PNP/NPN)</li> </ul>
<b>Resolution</b>	736 x 480 pixels (wide VGA)
<b>Frame rate</b>	50 frames/sec.
<b>Dimensions [mm]</b>	45 x 45 x 76.7 (W x L x H)
<b>Degree of protection</b>	IP 67
<b>Ambient temperature</b>	0 ... 50°C
<b>Nominal operating voltage</b>	24 V DC