

# Object sensor SBSI-Q-AF-R3B-F6-W

Part number: 8058724

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Type code                                      | SBSI  |
| Vision sensor version                          | Object sensor   |
| CE marking (see declaration of conformity)     | As per EU EMC directive   |
| KC characters                                  | KC EMC  |
| Certification                                  | RCM compliance mark<br>c UL us - Listed (OL)  |
| Working distance                               | 6 mm - infinite   |
| Focal length                                   | 6 mm  |
| Field of view                                  | min. 5 x 4 mm   |
| Focus setting                                  | With adjusting screw  |
| Lens attachment                                | Integrated optics   |
| Lighting type                                  | Integrated  |
| Type of light                                  | White<br>LED  |
| Sensor type                                    | Monochrome  |
| Sensor resolution                              | 736 x 480 pixels (WideVGA)  |
| Frame rate (full image)                        | 50 fps  |
| Max. no. of inspection programs/jobs           | 255   |
| Max. number of test criteria/detectors         | 255   |
| Function of detectors/characteristics          | Position tracking via contour<br>Pattern matching<br>Contour matching<br>Edge detection<br>Contrast<br>Brightness<br>Gray value threshold<br>Vernier caliper<br>BLOB                      |
| Typical cycle time                             | Position tracking: 30 ms<br>Pattern matching: 20ms<br>Contour matching: 30 ms<br>Contrast: 4 ms<br>Brightness: 2 ms<br>Gray value threshold: 4 ms<br>Vernier caliper: 8 ms<br>BLOB: 30 ms |
| Information on Ethernet, connection technology | Socket<br>M12<br>4-pin  |
| Ethernet, data transmission speed              | 100 Mbit/s  |

| Feature                                     | Value   |
|---|---|
| Ethernet, supported protocols               | Ethernet/IP<br>FTP<br>PROFINET<br>SMB<br>TCP/IP                       |
| Serial interface, connection technology     | Plug<br>M12<br>5-pin  |
| Serial interface, type                      | RS 232 / RS 422   |
| Electrical connection                       | 12-pin<br>M12<br>Plug   |
| Number of digital inputs                    | 2   |
| Number of digital outputs                   | 2   |
| Number of selectable digital inputs/outputs | 4   |
| Switching input                             | PNP/NPN switchable  |
| Switching level                             | Signal 0: $\leq 3$ V<br>Signal 1: $\geq U_B - 1$ V                    |
| Switching output                            | PNP/NPN switchable  |
| Max. output current                         | 50 mA   |
| Short-circuit protection                    | For all electrical connections  |
| Nominal operating voltage DC                | 24 V  |
| Permissible voltage fluctuations            | -25 %/+10 %   |
| Max. current consumption                    | 550 mA  |
| Current consumption with load-free outputs  | 200 mA  |
| Ambient temperature                         | 0 °C ... 50 °C  |
| Storage temperature                         | -20 °C ... 60 °C  |
| Degree of protection                        | IP67  |
| Note on degree of protection                | With lens protection tube   |
| Dimensions W x L x H                        | 45 mm x 45 mm x 76.7 mm   |
| Product weight                              | 160 g   |
| Housing material                            | Wrought aluminum alloy, anodized                                      |
| Cover material                              | ABS-reinforced  |
| Note on materials                           | RoHS-compliant  |
| Vibration resistance                        | as per EN 60068-2-6   |
| Shock resistance                            | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 |