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

Part number: 8058724



## Data sheet

| Feature | Value |
|---|---|
| Type code | SBSI |
| KC characters | KC EMC |
| Vision sensor version | Object sensor |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| 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: <= 3 V<br>Signal 1: >= UB - 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 |