

object sensor

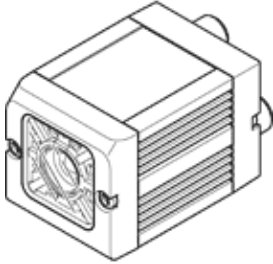
SBSI-Q-AF-R3B-F12-W

Part number: 8058725
Product to be discontinued

FESTO

Monochrome object sensor with integrated lens (f = 12 mm), white LED lighting and Ethernet interface, RS 232 and PROFINET for various tasks such as checking for presence and quality inspection, expanded function.

Type to be discontinued. Available until 2024. See Support Portal for alternative products.



Data sheet

| Feature | Value |
|--|---|
| Vision sensor version | Object sensor |
| CE mark (see declaration of conformity) | to EU directive for EMC |
| KC mark | KC-EMV |
| Authorisation | RCM Mark c UL us - Listed (OL) |
| Operating distance | 30 mm - infinite |
| Focal depth | 12 mm |
| Field of vision | Min. 8 x 6 mm |
| Focus setting | With adjusting screw |
| Lens attachment | Built-in optical devices |
| Lighting type | Integrated |
| Type of light | white LED |
| Sensor type | monochrome |
| Sensor resolution | 736 x 480 pixels (WideVGA) |
| Image rate (frame) | 50 fps |
| Max. number of test programs/jobs | 255 |
| Max. number of test criteria/detectors | 255 |
| Function of detectors/characteristics | Position tracking via contour Pattern matching Contour matching Edge detection Contrast Brightness Grey value threshold Vernier caliper BLOB |
| Typical cycle time | Position tracking: 30 ms Pattern matching: 20 ms Contour matching: 30 ms Contrast: 4 ms Brightness: 2 ms Grey value threshold: 4 ms Vernier calliper: 8 ms BLOB: 30 ms |
| Information on Ethernet, connection technology | Socket M12 4-pin |
| Ethernet, data transmission speed | 100 Mbit/s |
| Ethernet, supported protocols | Ethernet/IP |

| Feature | Value |
|---|---|
| | FTP PROFINET SMB TCP/IP |
| Serial interface, connection technology | Plug M12 5-pin |
| Serial interface, type | RS 232 / RS 422 |
| Electrical connection | 12-pin M12 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: $\leq 3\text{ V}$ Signal 1: $\geq U_B - 1\text{ V}$ |
| Switch output | PNP/NPN, switchable |
| Max. output current | 50 mA |
| Short circuit strength | for all electrical connections |
| Nominal operating voltage DC | 24 V |
| Permissible voltage fluctuation | -25 % / +10 % |
| Max. current consumption | 550 mA |
| Current consumption with load-free outputs | 200 mA |
| Ambient temperature | 0 ... 50 °C |
| Storage temperature | -20 ... 60 °C |
| Protection class | IP67 |
| Note on degree of protection | With protective tube |
| Dimensions W x L x H | 45 mm x 45 mm x 76,7 mm |
| Product weight | 160 g |
| Material housing | Anodised wrought aluminium alloy |
| Material cover | ABS-reinforced |
| Materials note | Conforms to RoHS |
| Vibration resistance | as per EN 60068-2-6 |
| Shock resistance | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 |