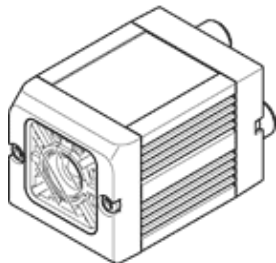


object sensor SBSI-Q-R3B-F12-W

Part number: 2942262

FESTO

monochrome Object Sensor with integrated lens, focal length 12mm, white LED illumination, Ethernet interface, RS-232 and Profinet for various tasks like completeness and quality checks.



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 | 8 |
| Max. number of test criteria/detectors | 32 |
| Function of detectors/characteristics | Position tracking via contour Pattern matching Contour matching Contrast Brightness Grey value threshold |
| 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 FTP PROFINET SMB TCP/IP |
| Electrical connection | 12-pin M12 |

| Feature | Value |
|---|---|
| | Plug |
| Number of digital inputs | 2 |
| Number of digital outputs | 2 |
| Number of selectable digital inputs/outputs | 2 |
| 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 |
| 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 |