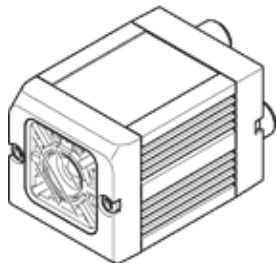


# colour sensor SBSI-F-R3C-F12-W

Part number: 8058732

FESTO

With integrated lens ( $f = 12 \text{ mm}$ ), white LED lighting and Ethernet interface and PROFINET, for various tasks such as checking for presence and quality inspection, expanded function.



## Data sheet

| Feature  | Value   |
|--|---|
| Vision sensor version                          | Colour sensor   |
| CE mark (see declaration of conformity)        | to EU directive for EMC   |
| KC mark  | KC-EMV  |
| Authorisation                                  | RCM Mark<br>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<br>LED  |
| Sensor type                                    | colour  |
| Sensor resolution                              | 736 x 480 pixels (WideVGA)  |
| Image rate (frame)                             | 40 fps  |
| Max. number of test programs/jobs              | 8   |
| Max. number of test criteria/detectors         | 2   |
| Function of detectors/characteristics          | Position tracking via contour<br>Contrast<br>Colour surface   |
| Typical cycle time                             | Position tracking: 30 ms<br>Pattern matching: 30 ms<br>Contour matching: 60 ms<br>Contrast: 2 ms<br>Brightness: 2 ms<br>Grey value threshold: 2 ms<br>Vernier caliper: 12 ms<br>BLOB: 50 ms<br>Colour surface: 30 ms<br>Colour value: 2 ms<br>Colour list: 2 ms |
| Information on Ethernet, connection technology | Socket<br>M12<br>4-pin  |
| Ethernet, data transmission speed              | 100 Mbit/s  |
| Ethernet, supported protocols                  | Ethernet/IP<br>FTP<br>PROFINET<br>SMB<br>TCP/IP   |
| Serial interface, type                         | RS 232 / RS 422   |
| Electrical connection                          | 12-pin  |

| Feature                                     | Value   |
|---|---|
|   | M12<br>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: $\leq 3\text{ V}$<br>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 |