color sensor
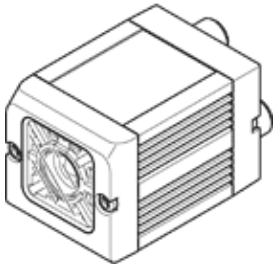## SBSI-F-R3C-F6-W

Part number: 8058731
Product to be discontinued

With integrated lens (f = 6 mm), white LED lighting, Ethernet interface 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.

FESTO

Data sheet

Feature	Value
Vision sensor version	Color sensor
CE symbol (see declaration of conformity)	according to EU-EMV guideline
KC mark	KC-EMV
Authorization	RCM Mark c UL us - Listed (OL)
Operating distance	6 mm - infinite
Focal depth	6 mm
Field of vision	Min. 5 x 4 mm
Focus setting	With adjusting screw
Lens attachment	Built-in optical devices
Lighting type	Integrated
Type of light	white LED
Sensor type	color
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 Contrast Colour surface
Typical cycle time	Position tracking: 30 ms Pattern matching: 30 ms Contour matching: 60 ms Contrast: 2 ms Brightness: 2 ms Grey value threshold: 2 ms Vernier caliper: 12 ms BLOB: 50 ms Colour surface: 30 ms Colour value: 2 ms Colour list: 2 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

Feature	Value
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	2
Switching input	PNP/NPN, switchable
Switching level	Signal 0: <= 3 V
	Signal 1: >= UB - 1 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