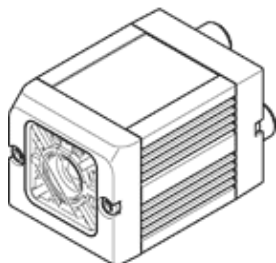


# colour sensor SBSI-F-R3C-F6-W

Part number: 8058731

FESTO

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.



## 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 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	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 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
Serial interface, type	RS 232 / RS 422
Electrical connection	12-pin

Feature	Value
	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: $\leq 3\text{ V}$ 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