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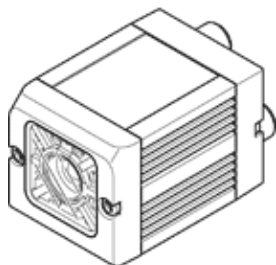# SBSI-F-R3C-F12-W

Part number: 8058732
Product to be discontinued

With integrated lens (f = 12 mm), white LED lighting and 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.

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	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	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

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