

object sensor

SBSI-Q-R3B-F12-NR

Part number: 2942266
Product to be discontinued

FESTO

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

Type to be discontinued. Available until 2024. See Support Portal for alternative products.



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	Infrared LED
Wavelength	880 nm
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

Feature	Value
	TCP/IP
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: $\geq U_B - 1$ 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