

# object sensor SBSI-Q-R3B-F12-W

Part number: 2942262  
Product to be discontinued

FESTO

monochrome Object Sensor with integrated lens, focal length 12mm, white 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	white LED
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 TCP/IP

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