Object sensor
SBSI-Q-R3B-F12-W

Part number: 2942262



Data sheet

Feature	Value
Type code	SBSI
KC characters	KC EMC
Vision sensor version	Object sensor
CE marking (see declaration of conformity)	As per EU EMC directive
Certification	RCM compliance mark c UL us - Listed (OL)
Working distance	30 mm - infinite
Focal length	12 mm
Field of view	min. 8 x 6 mm
Focus setting	With adjusting screw
Lens attachment	Integrated optics
Lighting type	Integrated
Type of light	White LED
Sensor type	Monochrome
Sensor resolution	736 x 480 pixels (WideVGA)
Frame rate (full image)	50 fps
Max. no. of inspection programs/jobs	8
Max. number of test criteria/detectors	32
Function of detectors/characteristics	Position tracking via contour Pattern matching Contour matching Contrast Brightness Gray value threshold
Typical cycle time	Position tracking: 30 ms Pattern matching: 20ms Contour matching: 30 ms Contrast: 4 ms Brightness: 2 ms Gray value threshold: 4 ms Vernier caliper: 8 ms BLOB: 30 ms
Information on Ethernet, connection technology	Socket M12 4-pin
Ethernet, data transmission speed	100 Mbit/s

Feature	Value
Ethernet, supported protocols	Ethernet/IP FTP PROFINET SMB 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: >= UB - 1 V
Switching output	PNP/NPN switchable
Max. output current	50 mA
Short-circuit protection	For all electrical connections
Nominal operating voltage DC	24 V
Permissible voltage fluctuations	-25 %/+10 %
Max. current consumption	550 mA
Current consumption with load-free outputs	200 mA
Ambient temperature	0 °C ... 50 °C
Storage temperature	-20 °C ... 60 °C
Degree of protection	IP67
Dimensions W x L x H	45 mm x 45 mm x 76.7 mm
Product weight	160 g
Housing material	Wrought aluminum alloy, anodized
Cover material	ABS-reinforced
Note on materials	RoHS-compliant
Vibration resistance	as per EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27