OC539722

CAMERA SENSORS • CAMERA SENSORS

Camera sensors are used to simultaneously check various properties of objects (e.g., completeness, dimensional accuracy, position, damages, labeling). This takes place independent of the component position virtually in real time. Camera sensors are image processing systems that combine image sensor and image processing computer with image processing software in a metal housing. Depending on the version, lens and illumination unit are also integrated in the housing or must be additionally mounted. The camera sensors are set using an intuitive software program. On the device, object-specific check programs can be stored that contain the respective feature checks. These programs can be activated depending on the object that is to be inspected. The rugged housing design makes possible use under harsh environmental conditions.



MECHANICAL DATA

Ambient temperature	5 °C 50 °C
Degree of protection (IP)	IP67
Housing material	Aluminium
Material of optical surface	PMMA
Sensor height	113 mm
Sensor length	50 mm
Sensor width	53 mm
ELECTRICAL DATA	
Error image memory	32
For interchangeable lens (C-mount)	Yes
Input voltage at DC	8 V 30 V
Integrated flash controller for external illumination	Yes
Max. output current	100 mA
Measuring time for high speed	15 fps
No-load current	208 mA
Number of digital inputs	5
Number of digital outputs	5
Number of pins	12
Number of pins of the communication interface	4
Number of switching outputs	5
Operating voltage	18 V 30 V
Power consumption	5 W
QR code and barcode identification	Yes
Reverse polarity protection	Yes
Setting procedure	Application software
Short-circuit-proof	Yes
Type of electrical connection	M12-connector
Type of switching function	Programmable/configurable

IPF ELECTRONIC

ELECTRICAL DATA	
Type of switching output	PNP
With communication interface, Ethernet	Yes
With Ethernet/IP	Yes
OPTICAL DATA	
Dimensional accuracy	Yes
Feature comparison, area size	Yes
Feature comparison, brightness	Yes
Feature comparison, contour comparison	Yes
Feature comparison, contrast	Yes
Feature comparison, count areas	Yes
Feature comparison, count contour points	Yes
Feature comparison, pattern comparison	Yes
Focal distance	Variable
Geometry - angle	Yes
Geometry - circle	Yes
Geometry - count edges	Yes
Geometry - distance	Yes
Geometry - point position	Yes
Image recorder	CCD(1/1.8")
Measuring time for high resolution	7 fps
Object evaluation regardless of position	Yes
Part location on circle	Yes
Part location on contours	Yes
Part location on edges	Yes
Part location on text line	Yes
Pick and place	Yes
Resolution	1600x1200
Testing and sorting	Yes
Text identification (OCR)	Yes
OTHER DATA	
Air humidity	0 90% noncondensing
Shock resistance in acc. with EN 60068-2-27	Yes

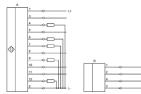
Vibration resistance in acc. with IEC 60068-2-6 / IEC 60068-2-

Yes

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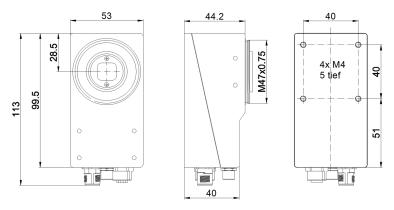
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CONNECTION



Colors: A: 1 = BN (brown), 2 = BU (blue), 3 = WH (white), 4 = GN (green), 5 = PK (pink), 6 = YE (yellow), 7 = BK (black), 8 = GY (gray), 9 = RD (red), 10 = VT (violet), 11 = GY/PK (gray/pink), 12 = RD/BU (red/blue) B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)**Functions:** A: 1 = L+, 2 = L-, 3 = trigger, 4 = out 1, 5 = In 2, 6 = out 2, 7 = out 3, 8 = In 3, 9 = out 4/ RS485, 10 = In 4, 11 = in 5, 12 = out 5/RS485 B: 1 = TD+, 2 = TD-, 3 = RX+, 4 = RX-

DIMENSIONAL DRAWING



INSTALLATION

Mounting / Installation may only be carried out by a qualified electrician!



DISPOSAL

SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!