OC539220

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

50 °C
5 °C
IP67
With powder coating
Aluminium
PMMA
113 mm
38 mm
53 mm
32
No
No
No
30 V
8 V
No
100 mA
100 fps
208 mA
5
5
12
4
5
30 V
18 V
5 W

IPF ELECTRONIC

ELECTRICAL DATA

Property picture system	Black and white
QR code and barcode identification	Yes
Reverse polarity protection	Yes
Setting procedure	Application software
Short-circuit-proof	Yes
Type of communication interface	Connector M12
Type of electrical connection	M12-connector
Type of plug-in contact, communication interface	Female (socket)
Type of switching function	Programmable/configurable
Type of switching output	PNP
With communication interface, Ethernet	Yes
With communication interface, RS-232	No
With communication interface, RS-485	Yes
With Ethernet/IP	Yes
With Profinet	No
With RS485	Yes

OPTICAL DATA

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Dimensional accuracy	No
Feature comparison, area size	No
Feature comparison, brightness	No
Feature comparison, contour comparison	No
Feature comparison, contrast	No
Feature comparison, count areas	No
Feature comparison, count contour points	No
Feature comparison, pattern comparison	No
Focal distance	10mm
Geometry - angle	No
Geometry - circle	No
Geometry - count edges	No
Geometry - distance	No
Geometry - point position	No
Geometry of edge contour	Yes
Image recorder	CMOS(1/3")
Light source	White light
Measuring time for high resolution	50 fps
Minimum distance	50 mm
Object evaluation regardless of position	No
Part location on circle	No
Part location on contours	No
Part location on edges	No
Part location on text line	No
Pick and place	No
Resolution	752x480
Testing and sorting	No
Text identification (OCR)	No

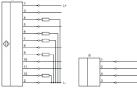
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OTHER DATA

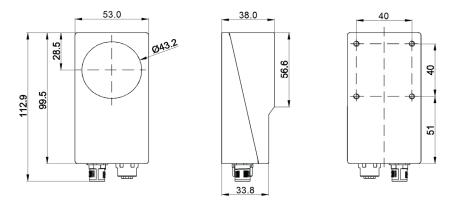
Air humidity	0 90% noncondensing
Risk groups	1
Shock resistance in acc. with EN 60068-2-27	Yes
Vibration resistance in acc. with IEC 60068-2-6 / IEC 60068-2-64	Yes

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!

Never use these devices in applications where the safety of a person depends on their functionality.