

OC539422

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	38 mm
Sensor width	53 mm

ELECTRICAL DATA

32
8 V 30 V
100 mA
100 fps
208 mA
5
3
12
4
3
18 V 30 V
5 W
Yes
Application software
Yes
M12-connector
Programmable/configurable
PNP
Yes
Yes



ELECTRICAL DATA

With Ethernet/IP	Yes
With RS485	Yes

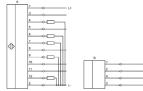
OPTICAL DATA	
Dimensional accuracy	Yes
Feature comparison, area size	Yes
Feature comparison, brightness	Yes
Feature comparison, contour comparison	Yes
Feature comparison, contrast	Yes
Feature comparison, count areas	Yes
Feature comparison, count contour points	Yes
Feature comparison, pattern comparison	Yes
Focal distance	10mm
Geometry - angle	Yes
Geometry - circle	Yes
Geometry - count edges	Yes
Geometry - distance	Yes
Geometry - point position	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	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	752x480
Testing and sorting	Yes

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

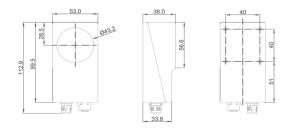


Colors: A: 1 = BN (brown), 2 = BU (blue), 3 = WH (white), 4 = GN (green), 5 = PK (pink), 6 = YE (yellow), 7 = BK (black), 8 = GY (gray), 9 = RD (red), 10 = VT (violet), 11 = GY/PK (gray/pink), 12 = RD/BU (red/blue)

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!