

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 FEATURES

Housing materialAluminMaterial of optical surfacePMMASensor height113 mSensor length38 mmSensor width53 mmELECTRICAL FEATURES32Error image memory32Feature comparison, color arrangement-For interchangeable lens (C-mount)-Input voltage at DC8 VIntegrated flash controller for external illumination-Max. output current100 mMeasuring time for high speed100 fpNumber of digital inputs5Number of digital outputs5Number of pins12Number of switching outputs5Operating voltage18 VPower consumption5 WPower consumption5 W	owder coating um n
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Operating voltage18 VPower consumption5 WProperty picture systemBlack a	
Power consumption 5 W Property picture system Black a	
Property picture system Black a	
	30 V
QR code and barcode identification +	30 V
	30 V nd white
Reverse polarity protection +	
Setting procedure Applic	
Short-circuit protection +	
Type of communication interface Conne	nd white
Type of electrical connection M12-c	nd white

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ELECTRICAL FEATURES

Type of plug-in contact, communication interface	Female (socket)
Type of switching function	Programmable/configurable
Type of switching output	PNP
With communication interface, Ethernet	+
With communication interface, RS-232	-
With communication interface, RS-485	+
With Ethernet/IP	+
With Profinet	-
With RS485	+

OPTICAL FEATURES

Resolution	752x480
Light source	White light
Focal distance	10mm
Image recorder	CMOS(1/3")
Minimum distance	50 mm
Measuring time for high resolution	50 fps
Testing and sorting	-
Dimensional accuracy	-
Text identification (OCR)	-
Pick and place	-
Object evaluation regardless of position	-
Part location on contours	-
Part location on edges	-
Part location on circle	-
Part location on text line	-
Geometry - distance	-
Geometry - circle	-
Geometry - angle	-
Geometry - count edges	-
Geometry - point position	-
Feature comparison, count contour points	-
Feature comparison, contour comparison	-
Feature comparison, brightness	-
Feature comparison, contrast	-
Feature comparison, area size	-
Feature comparison, count areas	-
Feature comparison, pattern comparison	-
Geometry of edge contour	+

OTHER FEATURES

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

Other

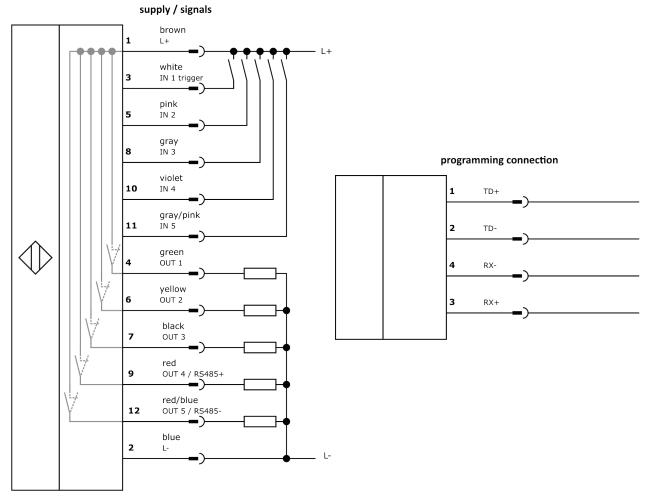
Packaging dimensions	140mm x 150mm x 200mm
Shipping weight	0.41kg
Tariff code	90314990



Classification

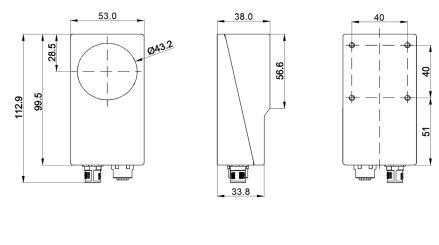
ipf product group	715
eClass 8.0	27310201
eClass 9.0	27310201
eClass 9.1	27310201
ETIM-5.0	EC001511
ETIM-6.0	EC001511
ETIM-7.0	EC001511

Connection



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Dimensional drawing



Installation



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



Software

Please download the software or driver required for operating your new device on our homepage: www.ipf.de

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.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.