

OC538420

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

Ambient temperature	5 °C 50 °C
Degree of protection (IP)	IP67
Housing coating	With powder coating
Housing material	Aluminum
Material of optical surface	PMMA
Sensor height	113 mm
Sensor length	38 mm
Sensor width	53 mm

ELECTRICAL FEATURES	
Error image memory	32
Feature comparison, color arrangement	-
Feature comparison, color determination	-
For interchangeable lens (C-mount)	-
Input voltage at DC	8 V 30 V
Integrated flash controller for external illumination	-
Max. output current	100 mA
Measuring time for high speed	100 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
Property picture system	Infrared
QR code and barcode identification	-
Reverse polarity protection	+
Setting procedure	Application software
Short-circuit protection	+
Type of communication interface	Connector M12
Type of electrical connection	M12-connector



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

ght source ocal distance mage recorder	Infrared light 10mm CMOS(1/3")
aaga racardar	CMOS(1/3")
hage recorder	(, ,
1inimum distance	50 mm
leasuring time for high resolution	50 fps
esting and sorting	+
imensional accuracy	+
ext identification (OCR)	-
ick and place	+
bject evaluation regardless of position	+
art location on contours	+
art location on edges	+
art location on circle	+
art location on text line	+
eometry - distance	+
eometry - circle	+
eometry - angle	+
eometry - count edges	+
eometry - point position	+
eature comparison, count contour points	+
eature comparison, contour comparison	+
eature comparison, brightness	+
eature comparison, contrast	+
eature comparison, area size	+
eature comparison, count areas	+
eature comparison, pattern comparison	+
eometry of edge contour	+

OTHER FEATURES

Air humidity	0 90% noncondensing
Risk groups	0
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	145.0mm x 125.0mm x 205.0mm
Shipping weight	0.43kg
Tariff code	90314990

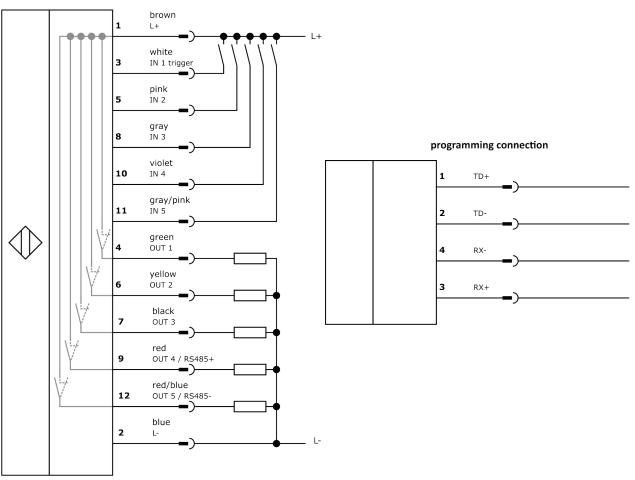


Classification

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

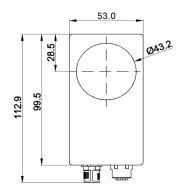
Connection

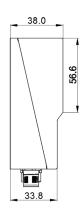
supply / signals

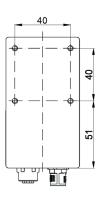




Dimensional drawing







Installation



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

Disposal



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.