

OC539821

Camera systems • Process monitoring

Sensor optical, camera, color, 113x50x53mm, CCD(1/3"), 1280x960, focal distance variable, 5x PNP programmable/configurable, M12-connector 12pin, IP67, aluminum powder-coated+PMMA, C-mount, integrated flash controller



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.

Electrical features

Number of digital outputs	5
Number of digital inputs	5
Number of switching outputs	5
Type of switching function	Programmable/configurable
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	100mA
Property picture system	Color
Setting procedure	Application software
Error image memory	8
Short-circuit protection	Yes
No-load current	208mA
Power consumption	5VA
Number of pins	12
Reverse polarity protection	Yes
Type of plug-in contact, communication interface	Female (socket)
Type of plug-in connection, communication interface	Connector M12
Number of pins of interface connection	4
Supported communication interface	Ethernet
Operating voltage (DC)	18 - 30V
For interchangeable lens (C-mount)	Yes
Integrated flash controller for external illumination	Yes

Mechanical features

Width	53mm
Height	113mm
Length	50mm
Surface	With powder coating
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PMMA)
Housing material	Aluminum
Ambient temperature	5 - 55°C

Optical features

Resolution of image recorder	1280x960px
Image recorder	CCD(1/3")
Dimensional accuracy	Yes
Measuring time for high resolution	12fps
Object evaluation regardless of position	Yes
Pick and place	Yes
For geometry	distance count edges edge tracking circle detection point position determining angle measurement
For part location	on edges on contours at text lines on circles
For feature comparison	color arrangement color identification size of area count surfaces compare contours count contour points compare pattern

Other features

Relative air humidity (non-condensing)	0 - 90%
Shock resistance in acc. with EN 60068-2-27	Yes
Vibration resistance in acc. with IEC 60068-2-6 / IEC 60068-2-64	Yes
Ambient temperature	5 - 55°C

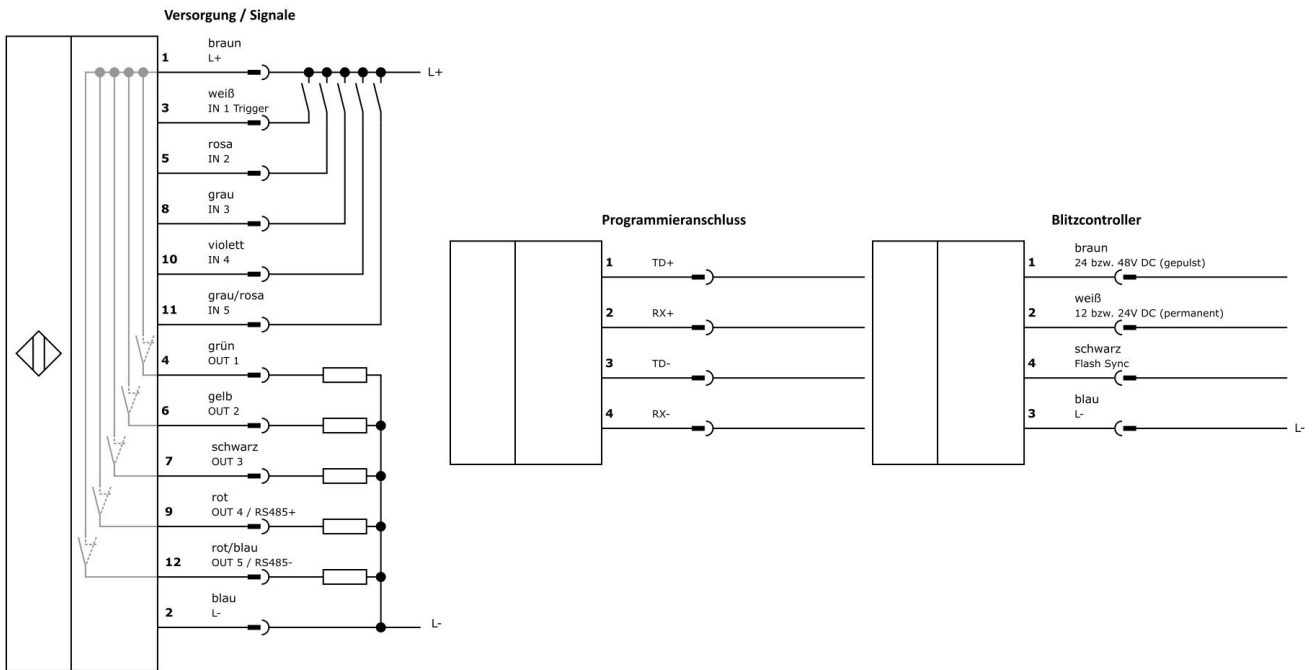
Classification

ETIM 8	EC001511 Camera for surveillance system
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More

IPF Product Group	715 camera sensors
packaging dimensions	200 x 140 x 150 mm
gross weight	560 g
Customs tariff number	90314990
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com

Dimensional drawing

