IPF ELECTRONIC

OC539820
CAMERA SENSORS • PROCESS MONITORING

sensor optical, camera, Color, 113x50x53mm, CCD(1/4"), 640x480, Focal distance Variable, 5x PNP Programmable/configurable, M12-connector 12pin, IP67, Aluminum With powder coating+PMMA, C-mount, flash controller, With Ethernet/IP

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	50 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	+
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	Color
QR code and barcode identification	-
Rated switching current	100 mA
Reverse polarity protection	+
Setting procedure	Application software
Short-circuit protection	+
Type of communication interface	Connector M12
Type of electrical connection	M12-connector
Type of plug-in contact, communication interface	Female (socket)

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ELECTRICAL FEATURES

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	640x480
Focal distance	Variable
Image recorder	CCD(1/4")
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

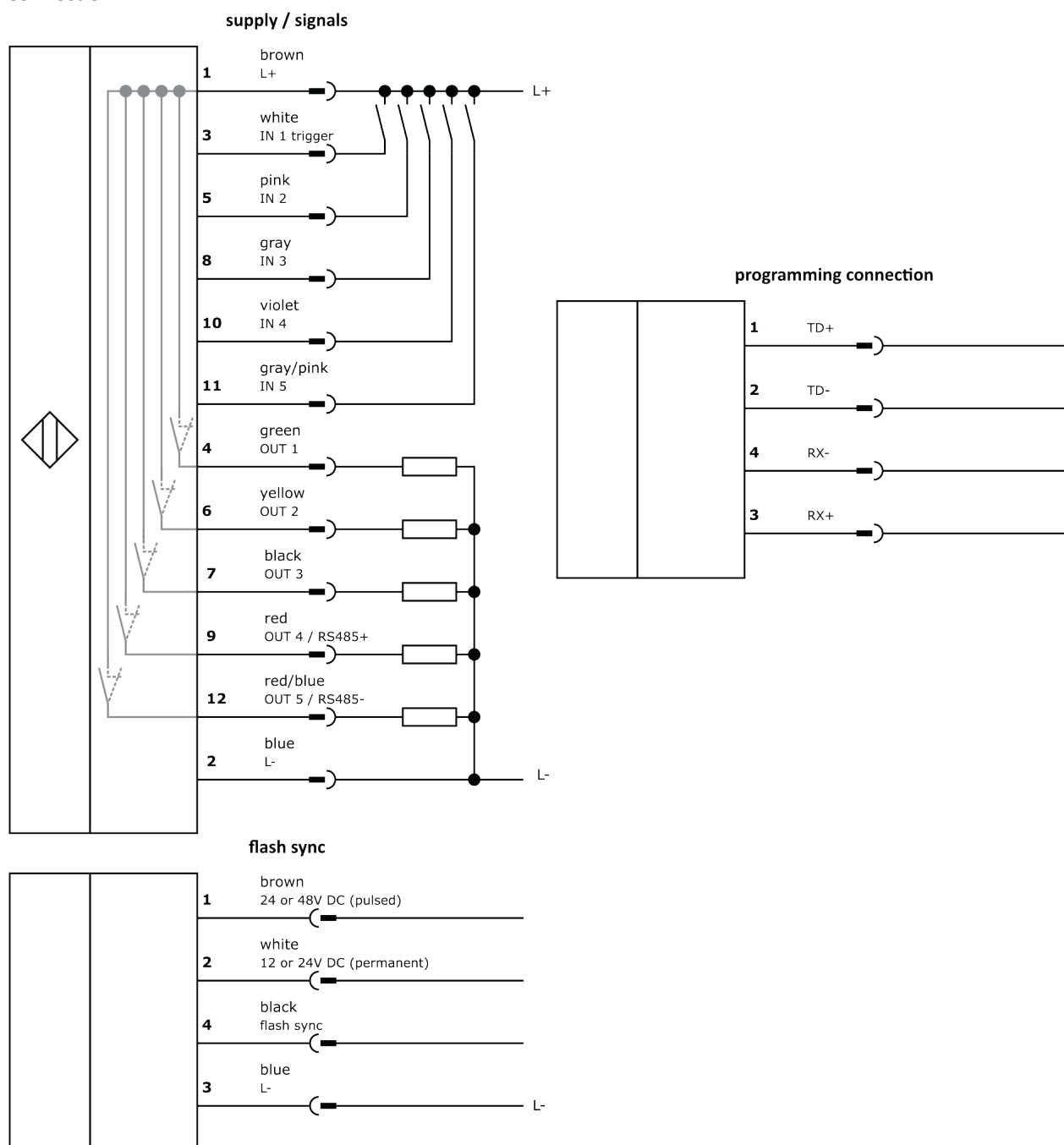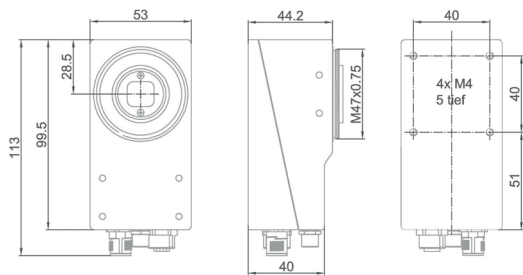|	
Air humidity	0 ... 90% noncondensing
Shock resistance in acc. with EN 60068-2-27	+
Vibration resistance in acc. with IEC 60068-2-6 / IEC 60068-2-64	+

Other

Packaging dimensions	140mm x 150mm x 200mm
Shipping weight	0.56kg
Tariff code	90314990

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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

Pin	Color	Signal
1	brown	L+
3	white	IN 1 trigger
5	pink	IN 2
8	gray	IN 3
10	violet	IN 4
11	gray/pink	IN 5
4	green	OUT 1
6	yellow	OUT 2
7	black	OUT 3
9	red	OUT 4 / RS485+
12	red/blue	OUT 5 / RS485-
2	blue	L-

programming connection

Pin	Signal
1	TD+
2	TD-
4	RX-
3	RX+

flash sync

Pin	Color	Signal
1	brown	24 or 48V DC (pulsed)
2	white	12 or 24V DC (permanent)
4	black	flash sync
3	blue	L-

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Dimensional drawing

Installation

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

Disposal

Software
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

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.