



## features

- Integrated flash controller
- User management
- Password protection
- Backup & Restore function
- Coordinate transformation
- flexible result conjunction
- Download VeriSens® Application Suite: [www.baumer.com/vs-sw](http://www.baumer.com/vs-sw)



## general data

resolution	640 × 480 px
sensor type	1/4" CCD, color
illumination	direct connection (integrated flash controller)
illumination connection	as accessory
high-resolution mode	max. 50 inspections per second
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer FEX® 5.0
defect image memory	32
lens	C-mount

## electrical data

voltage supply range +Vs	18 ... 30 V DC
power consumption	typical 5 W ( $I_{max} = 1,5 \text{ A}$ at 24 V)
digital inputs	5 inputs (8 ... 30 V) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital outputs	3 outputs (PNP) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)
process interface	TCP/UDP (Ethernet) RS485
visualization	web interface

## non-volatile memory

flash memory size	256 Mbit Flash S29GL256P10FFI010
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## integrated flash controller

voltage	12 V DC or 24 V DC (permanent) 24 V DC or 48 V DC (pulsed)
current	$I_{max} = 800 \text{ mA}$ at 24 V DC (permanent) (±10 %, at least ± 100 mA, at 25 °C) $I_{max} = 4 \text{ A}$ at 48 V DC (pulsed) (+10/-20 %, at least ± 100 mA, at 25 °C)
flash time	max. 1 ms (Duty Cycle max. 1:10)

## mechanical data

width	53 mm (without lens/tube)
height	99,5 mm (without lens/tube)
depth	49,8 mm (without lens/tube)
weight	≤ 300 g (without lens/tube)
material	housing: aluminum cover glass: PMMA

## environmental conditions

operating temperature	+5 ... +50 °C
storage temperature	-20 ... +70 °C
case temperature	max. +50 °C
humidity	0 ... 90 % (non-condensing)
protection class	IP 67 (with tube)
vibration load	IEC 60068-2-6 IEC 60068-2-64
mechanical shock resistance	EN 60068-2-27

## conformity

conformity	CE RoHS
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## feature checks

part location	part location on contours part location on edges part location on circle part location on text line
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**feature checks**

geometry	distance circle angle count edges point position
feature comparison	count contour points contour comparison area size count areas pattern comparison color identification color positioning

**electrical connection M12 / 12-pin, A-coded (on device)**



1: PWR (+18-30 V DC)	7: OUT3
2: Ground	8: IN3
3: IN1 (Trigger)	9: RS485+
4: OUT1	10: IN4
5: IN2	11: IN5
6: OUT2	12: RS485-

**Ethernet connection M12 / 4-pin (on device)**



1: TD+	3: TD-
2: RD+	4: RD-

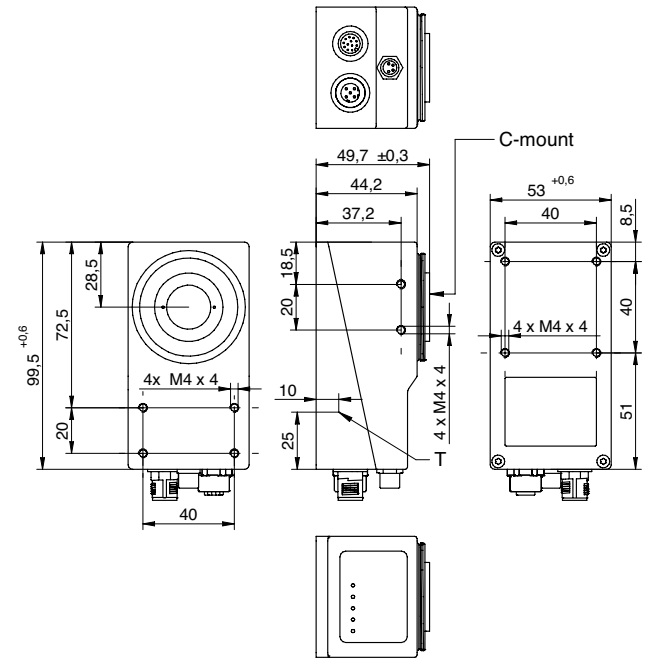
**electrical connection illumination M8 / 4-pin (on device)**



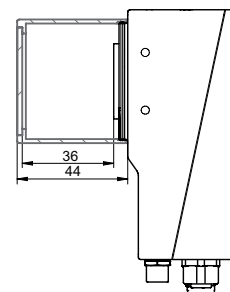
1: +24 V or +48 V Flash	3: Ground
2: +12 V or +24 V Flash	4: Flash Sync

voltage outputs configurable by software

**dimension drawing**



**C-mount support**



**XC Tube, XC Tube Module**

