



## features

- PROFINET and EtherNet/IP™ interface integrated
- FEX® image processor
- FEXLoc® 360° part location
- ColorFex® intelligent 3D color assistant
- Flexible result conjunction
- VeriFlash® flash controller integrated
- VeriSens® XC Tube included in delivery
- 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	external, available as accessory
illumination connection	direct (integrated VeriFlash® flash controller)
high-resolution mode	max. 116 inspections per second
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer FEX® 4.0
defect image memory	32
lens	C-mount

## electrical data

voltage supply range +Vs	18 ... 30 V DC
power consumption	Typ. 8 W ( $I_{max} = 1 \text{ A} @ 24 \text{ V}$ ) without illumination Typ. 14 W ( $I_{max} = 1,5 \text{ A} @ 24 \text{ V}$ ) with illumination 0,8 A / 24 V
digital inputs	5 inputs (8 ... 30 V) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital outputs	5 outputs (PNP 100 mA) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)
process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)

## electrical data

visualization	configurable web interface with MultiViewer function
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## non-volatile memory

flash memory size	2000 Mbit Flash S34ML02G100BHI0000
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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 XC tube: PMMA

## environmental conditions

operating temperature	+5 ... +50 °C @ T = measurement point
storage temperature	-20 ... +70 °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
	KC (R-R-BkR-VeriSens-XC-IP)
	EAC

**feature checks**

part location	part location on contours part location on edges part location on circle part location on text line
geometry	distance circle angle count edges point position edge characteristics
feature comparison	count contour points contour comparison brightness contrast 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: OUT4
4: OUT1	10: IN4
5: IN2	11: IN5
6: OUT2	12: OUT5

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



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

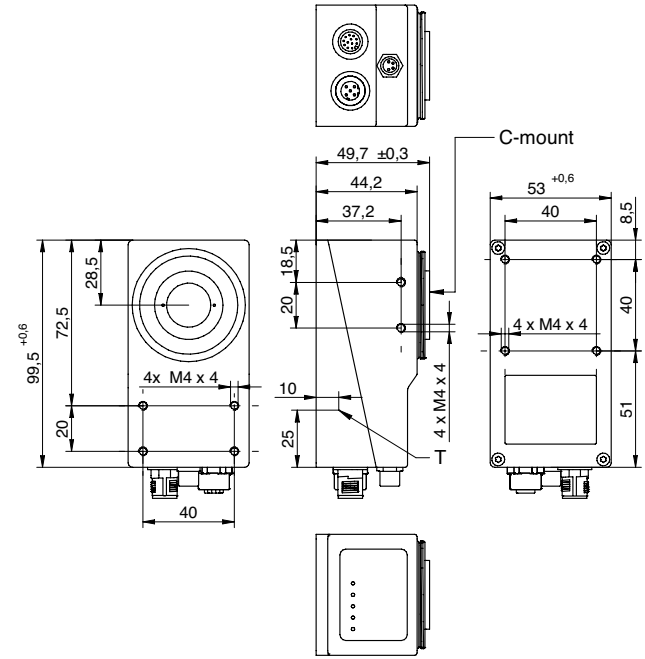
**electrical connection illumination M8 / 4-pin (on device)**



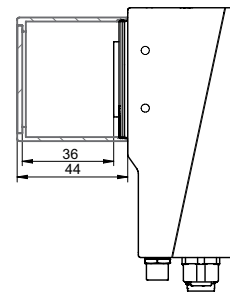
1: +24 V or +48 V Flash	3: Ground
2: +12 V or +24 V Flash	4: Flash Sync

voltage outputs configurable by software

**dimension drawing**



**C-mount support**



**XC Tube, XC Tube Module**

