

**overview**

- PROFINET and EtherNet/IP™ interface integrated
- FEX® image processor
- FEXLoc® 360° part location
- 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) available



**technical data**

| general data                         |   | electrical data          |   |
|--------------------------------------|---|--------------------------|---|
| resolution                           | 640 × 480 px  | digital outputs          | 5 outputs (PNP 100 mA)<br>Pass / Fail<br>Flash Sync<br>Alarm<br>Camera Ready<br>Output Enable |
| sensor type                          | 1/4" CCD, monochrome  | initial setup            | Ethernet (10BASE-T / 100BASE-TX)  |
| illumination                         | external, available as accessory  | process interface        | PROFINET (CC-A)<br>EtherNet/IP™<br>TCP/UDP (Ethernet)   |
| illumination connection              | direct (integrated VeriFlash® flash controller)   | visualization            | configurable web interface with <i>Mul-tiViewer</i> function                                  |
| high-resolution mode                 | max. 118 inspections per second   | mechanical data          |   |
| high-speed mode (limited resolution) | max. 144 inspections per second   | width                    | 53 mm (without lens/tube)   |
| number of jobs (products)            | ≤ 255   | height                   | 99,5 mm (without lens/tube)   |
| features per job                     | 32  | depth                    | 49,8 mm (without lens/tube)   |
| signal processing                    | Baumer FEX® 4.0   | weight                   | ≤ 300 g (without lens/tube)   |
| defect image memory                  | 32  | material                 | housing: aluminum<br>cover glass XC tube: PMMA  |
| lens                                 | C-mount   | environmental conditions |   |
| electrical data                      |   | operating temperature    | +5 ... +50 °C @ T = measurement point   |
| voltage supply range +Vs             | 18 ... 30 V DC  | storage temperature      | -20 ... +70 °C  |
| power consumption                    | Typ. 8 W (I <sub>max</sub> = 1 A @ 24 V) without illumination<br>Typ. 14 W (I <sub>max</sub> = 1,5 A @ 24 V) with illumination 0,8 A / 24 V | humidity                 | 0 ... 90 % (non-condensing)   |
| digital inputs                       | 5 inputs (8 ... 30 V)<br>trigger<br>job selection<br>external teach-in<br>encoders (CH-A, CH-B) 500 kHz                                     | protection class         | IP 67 (with tube)   |
|                                      |   | vibration load           | IEC 60068-2-6<br>IEC 60068-2-64   |

**technical data**

**environmental conditions**

mechanical shock resistance EN 60068-2-27

**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  
find object positions

**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)  
( $\pm 10 \%$ , at least  $\pm 100 \text{ mA}$ , at 25 °C)  
 $I_{max} = 4 \text{ A}$  at 48 V DC (pulsed) (+10/-20  
%, at least  $\pm 100 \text{ mA}$ , at 25 °C)

flash time max. 1 ms (Duty Cycle max. 1:10)

**conformity**

conformity CE  
RoHS  
KC (R-R-BkR-VeriSens-XC-IP)  
EAC

**non-volatile memory**

flash memory size 2000 Mbit Flash S34ML02G100BH10000

**Electrical connection**



|                      |          |
|----------------------|----------|
| 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 |



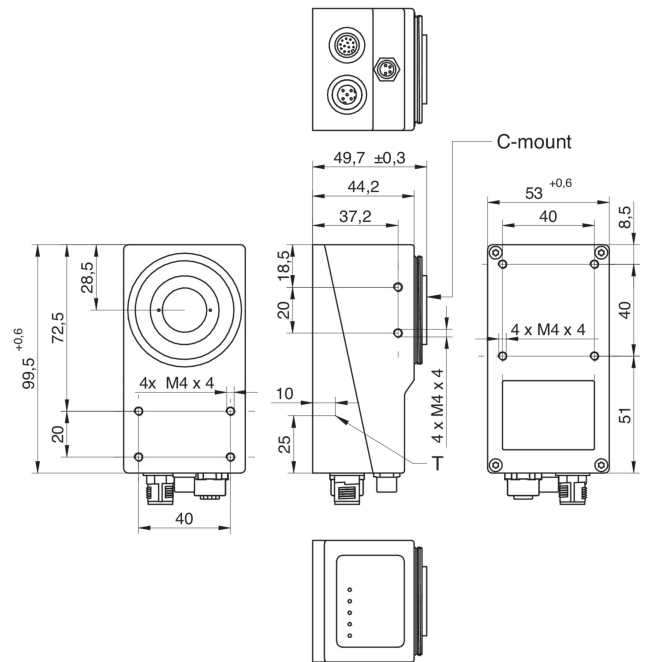
|        |        |
|--------|--------|
| 1: TD+ | 3: TD- |
| 2: RD+ | 4: RD- |



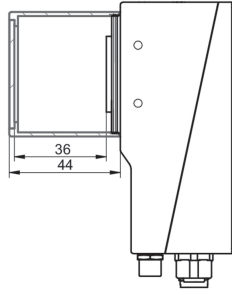
|                         |               |
|-------------------------|---------------|
| 1: +24 V or +48 V Flash | 3: Ground     |
| 2: +12 V or +24 V Flash | 4: Flash Sync |

voltage outputs configurable by software

**dimension drawing**



## C-mount support



## XC Tube, XC Tube Module

