



## 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)<br>trigger<br>job selection<br>external teach-in<br>encoders (CH-A, CH-B) 500 kHz |
| digital outputs          | 5 outputs (PNP)<br>Pass / Fail<br>Flash Sync<br>Alarm<br>Camera Ready<br>Output Enable                  |
| initial setup            | Ethernet (10BASE-T / 100BASE-TX)                                                                        |
| process interface        | TCP/UDP (Ethernet)                                                                                      |
| visualization            | web interface                                                                                           |

## non-volatile memory

|                   |                                     |
|-------------------|-------------------------------------|
| flash memory size | 256 Mbit Flash<br>S29GL256P10FFI010 |
|-------------------|-------------------------------------|

## integrated flash controller

|            |                                                                                                                                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| voltage    | 12 V DC or 24 V DC (permanent)<br>24 V DC or 48 V DC (pulsed)                                                                                                                        |
| current    | $I_{max} = 800 \text{ mA}$ at 24 V DC (permanent)<br>(±10 %, at least ± 100 mA, at 25 °C)<br>$I_{max} = 4 \text{ A}$ at 48 V DC (pulsed)<br>(+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<br>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<br>IEC 60068-2-64 |
| mechanical shock resistance | EN 60068-2-27                   |

## conformity

|            |                                                  |
|------------|--------------------------------------------------|
| conformity | CE<br>RoHS<br>KC (R-R-BkR-VeriSens-XC-IP)<br>EAC |
|------------|--------------------------------------------------|

### feature checks

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| part location      | part location on contours<br>part location on edges<br>part location on circle<br>part location on text line                              |
| geometry           | distance<br>circle<br>angle<br>count edges<br>point position                                                                              |
| feature comparison | count contour points<br>contour comparison<br>area size<br>count areas<br>pattern comparison<br>color identification<br>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- |

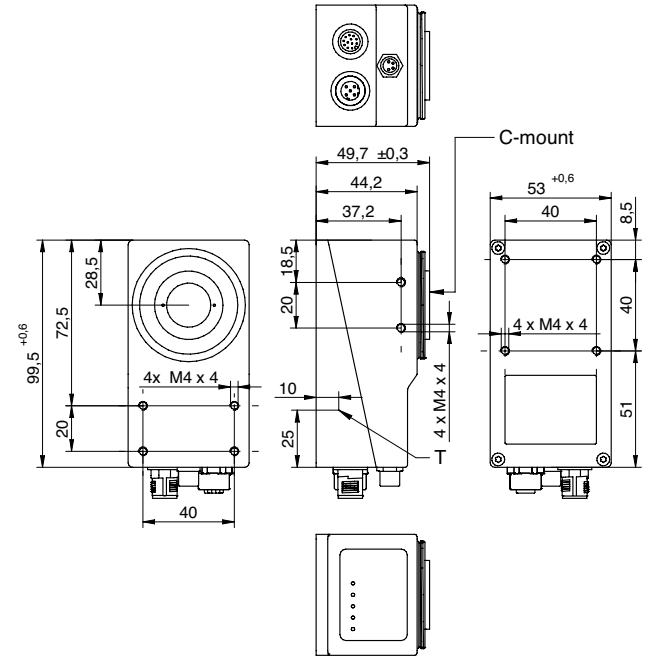
### electrical connection illumination M8 / 4-pin (on device)



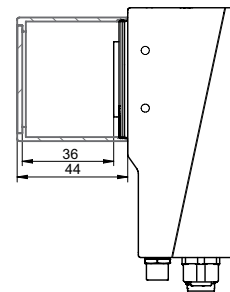
|                         |               |
|-------------------------|---------------|
| 1: +24 V or +48 V Flash | 3: Ground     |
| 2: +12 V or +24 V Flash | 4: Flash Sync |

voltage outputs configurable by software

### dimension drawing



### C-mount support



### XC Tube, XC Tube Module

