

## Overview

- PROFINET and EtherNet/IP interface integrated
- FEX image processor
- FEXLoc 360° part location
- ColorFEX intelligent 3D color assistant
- Flexible result conjunction
- Download VeriSens Application Suite: [www.baumer.com/vs-sw](http://www.baumer.com/vs-sw)



## Technical data

### General data

|                           |  |
|---------------------------|--|
| Resolution                | 752 × 480 px                           |
| Sensor type               | 1/3" CMOS, color                       |
| Illumination              | integrated, LED white                  |
| LED class                 | risk group 1 (low risk, EN 62471:2008) |
| High-resolution mode      | max. 50 inspections per second         |
| Object distance min.      | 100 mm                                 |
| Object distance max.      | 300 mm                                 |
| Number of jobs (products) | ≤ 255                                  |
| Features per job          | 32                                     |
| Signal processing         | Baumer FEX® 4.0                        |
| Defect image memory       | 32                                     |
| Lens                      | 16 mm                                  |

### Electrical data

|                                       |   |
|---------------------------------------|---|
| Nominal voltage power supply          | 24 V +- 25%   |
| Nominal voltage power supply (add-on) | Class 2 according to NEC / protection class III   |
| Nominal voltage power supply (info)   | The device is intended for supply from an isolated limited power source according to UL61010-1, 3rd ed cl. 9.4 or a limited energy source according to UL60950-1 or Class 2 according to NEC. |
| Power consumption                     | max. 18 W (with I/O)  |
| Inputs                                | 8 ... 30 V (polarity protected)   |

### Electrical data

|                   |  |
|-------------------|--|
| Digital inputs    | 5 inputs<br>trigger<br>job selection<br>external teach-in<br>encoders (CH-A, CH-B) 500 kHz |
| Outputs           | PNP $I_{peak} = 100 \text{ mA}$ and $I_{eff} = 50 \text{ mA}$<br>(short-circuit proof)     |
| Digital outputs   | 5 outputs<br>Pass / Fail<br>Flash Sync<br>Alarm<br>Camera Ready<br>Output Enable           |
| Initial setup     | Ethernet (10BASE-T / 100BASE-TX)   |
| Process interface | PROFINET (CC-A)<br>EtherNet/IP™<br>TCP/UDP (Ethernet)                                      |
| Visualization     | configurable web interface with <i>Mul-tiViewer</i> function                               |

### Mechanical data

|          |  |
|----------|--|
| Width    | 53 mm                                  |
| Height   | 99.5 mm                                |
| Depth    | 38 mm                                  |
| Weight   | ≤ 250 g                                |
| Material | housing: aluminum<br>cover glass: PMMA |

### Environmental conditions

|                       |                                       |
|-----------------------|---------------------------------------|
| Operating temperature | +5 ... +60 °C @ T = measurement point |
|-----------------------|---------------------------------------|

## Technical data

### Environmental conditions

|                     |                                 |
|---------------------|---------------------------------|
| Storage temperature | -20 ... +70 °C                  |
| Humidity            | 0 ... 90 % (non-condensing)     |
| Protection class    | IP 67                           |
| Vibration load      | IEC 60068-2-6<br>IEC 60068-2-64 |

|                             |               |
|-----------------------------|---------------|
| Mechanical shock resistance | EN 60068-2-27 |
|-----------------------------|---------------|

### 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<br>edge characteristics                         |

### Feature checks

|                    |   |
|--------------------|---|
| Feature comparison | count contour points<br>contour comparison<br>brightness<br>contrast<br>area size<br>count areas<br>pattern comparison<br>color identification<br>color positioning |
|--------------------|---|

### Conformity

|            |                         |
|------------|-------------------------|
| Conformity | CE<br>RoHS<br>EAC<br>UL |
|------------|-------------------------|

### Non-volatile memory

|                   |                                    |
|-------------------|------------------------------------|
| Flash memory size | 2000 Mbit Flash S34ML02G100BHI0000 |
|-------------------|------------------------------------|

## 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- |

## Dimension drawing

