

**Overview**

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



Picture similar



**Technical data**

**General data**

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Resolution                           | 752 × 480 px                          |
| Sensor type                          | 1/3" CMOS, monochrome                 |
| Illumination                         | integrated, LED infrared (860 nm)     |
| LED class                            | free group (risk free, EN 62471:2008) |
| High-resolution mode                 | max. 50 inspections per second        |
| High-speed mode (limited resolution) | max. 100 inspections per second       |
| Object distance min.                 | 50 mm                                 |
| Object distance max.                 | 450 mm                                |
| Number of jobs (products)            | ≤ 255                                 |
| Features per job                     | 32                                    |
| Signal processing                    | Baumer FEX® 4.0                       |
| Defect image memory                  | 32                                    |
| Lens                                 | 8 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, integrated daylight filter (780 nm) |

**Technical data**

**Environmental conditions**

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating temperature       | +5 ... +60 °C @ T = measurement point |
| 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>find object positions |
|--------------------|---|

**Conformity**

|            |                  |
|------------|------------------|
| Conformity | CE<br>RoHS<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**

