

**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.	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	12 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 trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
Outputs	PNP I <sub>peak</sub> = 100 mA and I <sub>eff</sub> = 50 mA (short-circuit proof)
Digital outputs	5 outputs 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)
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 cover glass: PMMA

**Environmental conditions**

Operating temperature	+5 ... +60 °C @ T = measurement point
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**Technical data**

**Environmental conditions**

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

Mechanical shock resistance	EN 60068-2-27
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**Code types**

Barcode	2/5 Industrial
	2/5 Interleaved
	Codabar
	Code 39
	Code 93
	Code 128
	PharmaCode
	EAN 8
	EAN 13
	UPC-A
	UPC-E
	GS1 DataBar
	GS1 128
Matrix code	DataMatrix (ECC 200) GS1-DataMatrix QR-Code PDF417
Font	many font styles (recommended: sans serif, proportional) Dot Matrix characters: A-Z a-z 0-9 + - . : / ( )

**Feature checks**

Part location	part location on contours
	part location on edges
Geometry	part location on circle
	part location on text line
	Distance
	circle
	angle
Feature comparison	count edges
	point position
	edge characteristics
	count contour points
	contour comparison
	brightness
	contrast
	area size
	count areas
	pattern comparison
color identification	
color positioning	
Identification	Barcode
	Matrix code
	text

**Conformity**

Conformity	CE RoHS EAC
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**Non-volatile memory**

Flash memory size	2000 Mbit Flash S34ML02G100BHI0000
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**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**

