

**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)



**Technical data**

General data		Electrical data	
Resolution	752 × 480 px	Digital inputs	5 inputs trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
Sensor type	1/3" CMOS, monochrome	Outputs	PNP $I_{peak} = 100\text{ mA}$ and $I_{eff} = 50\text{ mA}$ (short-circuit proof)
Illumination	integrated, LED infrared (860 nm)	Digital outputs	5 outputs Pass / Fail Flash Sync Alarm Camera Ready Output Enable
LED class	free group (risk free, EN 62471:2008)	Initial setup	Ethernet (10BASE-T / 100BASE-TX)
High-resolution mode	max. 50 inspections per second	Process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
High-speed mode (limited resolution)	max. 100 inspections per second	Visualization	configurable web interface with <i>Mul-ti/Viewer</i> function
Object distance min.	100 mm	Mechanical data	
Object distance max.	300 mm	Width	53 mm
Number of jobs (products)	≤ 255	Height	99.5 mm
Features per job	32	Depth	38 mm
Signal processing	Baumer FEX® 4.0	Weight	≤ 250 g
Defect image memory	32	Material	housing: aluminum cover glass: PMMA, integrated daylight filter (780 nm)
Lens	16 mm	Environmental conditions	
Electrical data		Operating temperature	+5 ... +60 °C @ T = measurement point
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)		

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

**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

**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
Feature comparison	angle
	count edges
	point position
	edge characteristics
	count contour points
	contour comparison
	brightness
	contrast
	area size
	count areas
Identification	pattern comparison
	find object positions
Identification	Barcode
	Matrix code
Identification	text

**Conformity**

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

Flash memory size	2000 Mbit Flash S34ML02G100BH10000
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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**

