

**overview**

- 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)
- available



**technical data**

general data		electrical data	
resolution	640 × 480 px	process interface	TCP/UDP (Ethernet) RS485
sensor type	1/4" CCD, monochrome	visualization	web interface
illumination	direct connection (integrated flash controller)	mechanical data	
illumination connection	as accessory	width	53 mm (without lens/tube)
high-resolution mode	max. 50 inspections per second	height	99,5 mm (without lens/tube)
high-speed mode (limited resolution)	max. 100 inspections per second	depth	49,8 mm (without lens/tube)
number of jobs (products)	≤ 255	weight	≤ 300 g (without lens/tube)
features per job	32	material	housing: aluminum cover glass: PMMA
signal processing	Baumer <i>FEX</i> ® 4.0	environmental conditions	
defect image memory	32	operating temperature	+5 ... +50 °C
lens	C-mount	storage temperature	-20 ... +70 °C
electrical data		case temperature	max. +50 °C
voltage supply range +Vs	18 ... 30 V DC	humidity	0 ... 90 % (non-condensing)
power consumption	typical 5 W ( $I_{max} = 1,5$ A at 24 V)	protection class	IP 67 (with tube)
digital inputs	5 inputs (8 ... 30 V) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz	vibration load	IEC 60068-2-6 IEC 60068-2-64
digital outputs	3 outputs (PNP) Pass / Fail Flash Sync Alarm Camera Ready Output Enable	mechanical shock resistance	EN 60068-2-27
initial setup	Ethernet (10BASE-T / 100BASE-TX)		

**technical data**

**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 part location on circle part location on text line
geometry	distance circle angle count edges point position edge characteristics

**feature checks**

feature comparison	count contour points contour comparison brightness contrast area size count areas pattern comparison
identification	barcode matrix code text

**integrated flash controller**

voltage	12 V DC or 24 V DC (permanent) 24 V DC or 48 V DC (pulsed)
current	$I_{max} = 800 \text{ mA}$ at 24 V DC (permanent) ( $\pm 10 \%$ , at least $\pm 100 \text{ mA}$ , at 25 °C) $I_{max} = 4 \text{ A}$ at 48 V DC (pulsed) (+10/-20 %, at least $\pm 100 \text{ mA}$ , at 25 °C)
flash time	max. 1 ms (Duty Cycle max. 1:10)

**conformity**

conformity	CE RoHS
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**non-volatile memory**

flash memory size	256 Mbit Flash S29GL256P10FFI010
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**Electrical connection**



1: PWR (+18-30 V DC)	7: OUT3
2: Ground	8: IN3
3: IN1 (Trigger)	9: RS485+
4: OUT1	10: IN4
5: IN2	11: IN5
6: OUT2	12: RS485-



1: TD+	3: TD-
2: RD+	4: RD-

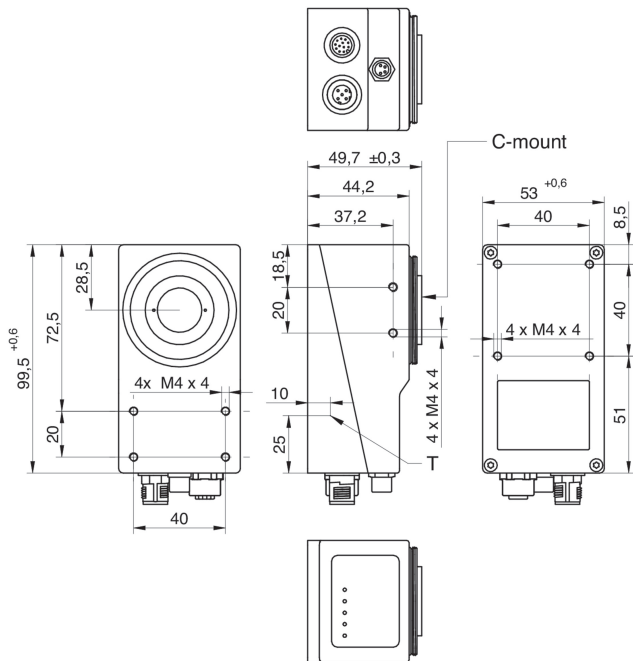
**Electrical connection**



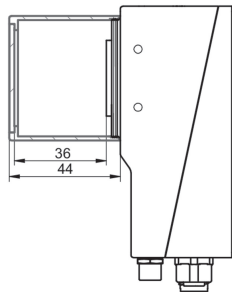
1: +24 V or +48 V Flash	3: Ground
2: +12 V or +24 V Flash	4: Flash Sync

voltage outputs configurable by software

**dimension drawing**



**C-mount support**



**XC Tube, XC Tube Module**

