



features

- PROFINET and EtherNet/IP™ interface integrated
- FEX® image processor
- FEXLoc® 360° part location
- Flexible result conjunction
- VeriFlash® flash controller integrated
- VeriSens® XC Tube included in delivery
- Download VeriSens® Application Suite: www.baumer.com/vs-sw



general data

resolution	1600 × 1200 px
sensor type	1/1.8" CCD, monochrome
illumination	external, available as accessory
illumination connection	direct (integrated VeriFlash® flash controller)
high-resolution mode	max. 21 inspections per second
high-speed mode (limited resolution)	max. 35 inspections per second
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer FEX® 4.0
defect image memory	4
lens	C-mount

electrical data

voltage supply range +Vs	18 ... 30 V DC
power consumption	Typ. 8 W ($I_{max} = 1 \text{ A @ } 24 \text{ V}$) without illumination Typ. 14 W ($I_{max} = 1,5 \text{ A @ } 24 \text{ V}$) with illumination 0,8 A / 24 V
digital inputs	5 inputs (8 ... 30 V) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital outputs	5 outputs (PNP 100 mA) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)

electrical data

process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
visualization	configurable web interface with MultiViewer function
non-volatile memory	
flash memory size	2000 Mbit Flash S34ML02G100BHI0000
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) (±10 %, at least ± 100 mA, at 25 °C) $I_{max} = 4 \text{ A}$ at 48 V DC (pulsed) (+10/-20 %, at least ± 100 mA, at 25 °C)
flash time	max. 1 ms (Duty Cycle max. 1:10)

mechanical data

width	53 mm (without lens/tube)
height	99,5 mm (without lens/tube)
depth	49,8 mm (without lens/tube)
weight	≤ 300 g (without lens/tube)
material	housing: aluminum cover glass XC tube: PMMA

environmental conditions

operating temperature	+5 ... +50 °C @ T = measurement point
storage temperature	-20 ... +70 °C
humidity	0 ... 90 % (non-condensing)
protection class	IP 67 (with tube)
vibration load	IEC 60068-2-6 IEC 60068-2-64
mechanical shock resistance	EN 60068-2-27

conformity

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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
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matrix code	DataMatrix (ECC 200) GS1-DataMatrix QR-Code PDF417
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font	many font styles (recommended: sans serif, proportional) Dot Matrix characters: A-Z a-z 0-9 + - . : / ()
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feature checks

part location	part location on contours part location on edges part location on circle part location on text line
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geometry	distance circle angle count edges point position edge characteristics
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feature comparison	count contour points contour comparison brightness contrast area size count areas pattern comparison find object positions
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identification	barcode matrix code text
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electrical connection M12 / 12-pin, A-coded (on device)



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

Ethernet connection M12 / 4-pin (on device)



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

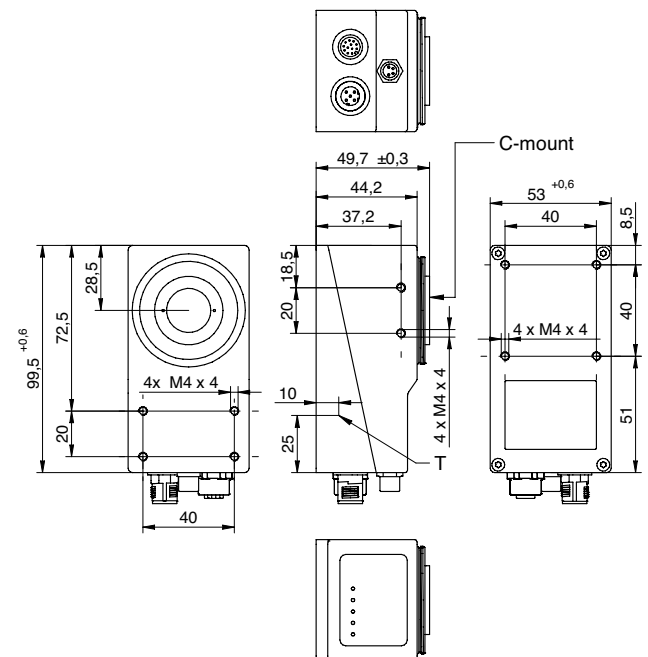
electrical connection illumination M8 / 4-pin (on device)



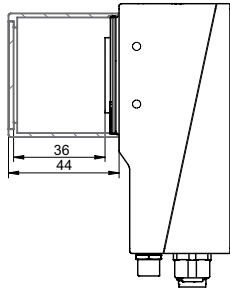
1:	+24 V or +48 V Flash	3:	Ground
2:	+12 V or +24 V Flash	4:	Flash Sync

voltage outputs configurable by software

dimension drawing



C-mount support



XC Tube, XC Tube Module

