

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



technical data

general data

resolution	1600 × 1200 px
sensor type	1/1.8" CCD, monochrome
illumination	direct connection (integrated flash controller)
illumination connection	as accessory
high-resolution mode	max. 7 inspections per second
high-speed mode (limited resolution)	max. 15 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	typical 5 W ($I_{max} = 1,5 \text{ A at } 24 \text{ V}$)
digital inputs	5 inputs (8 ... 30 V) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital outputs	3 outputs (PNP) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)

electrical data

process interface	TCP/UDP (Ethernet) RS485
visualization	web interface

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: PMMA

environmental conditions

operating temperature	+5 ... +55 °C @ T = measurement point
storage temperature	-20 ... +70 °C
case temperature	max. +50 °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

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 UR
------------	------------------

non-volatile memory

flash memory size	256 Mbit Flash S29GL256P10FFI010
-------------------	----------------------------------

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-

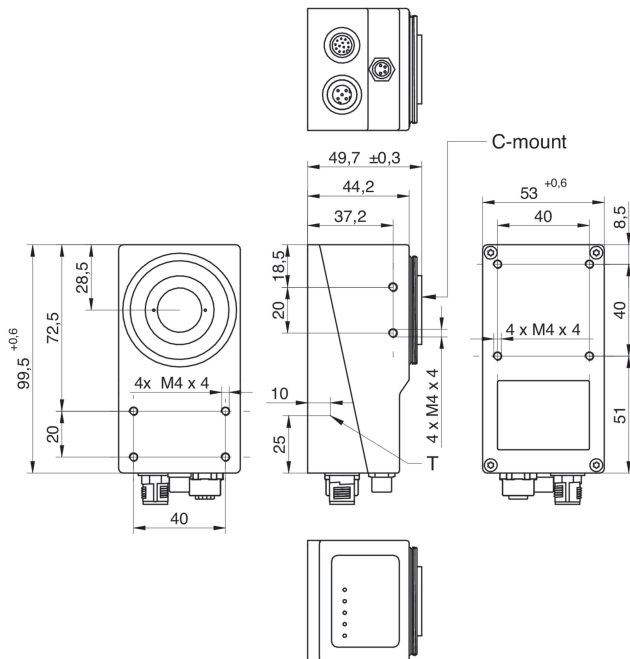
Electrical connection



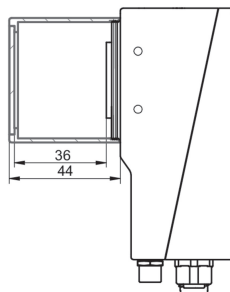
1: +24 V or +48 V Flash	3: Ground
2: +12 V or +24 V Flash	4: Flash Sync

voltage outputs configurable by software

dimension drawing



C-mount support



XC Tube, XC Tube Module

