Baumer
Passion for Sensors

Vision sensors
VeriSens® XC100
VS XC100M03X00RP
Article number: 11128425

features

- Integrated flash controller
- User management
- Password protection
- Backup & Restore function
- Coordinate transformation
- flexible result conjunction
- Download *VeriSens®* Application Suite: www.baumer.com/vs-sw

CE RoHS COMPLIANT

general data

resolution	640 × 480 px
sensor type	1/4" CCD, monochrome
illumination	direct connection (integrated flash controller)
illumination connection	as accessory
high-resolution mode	max. 50 inspections per second
high-speed mode (limited resolution)	max. 100 inspections per second
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer *FEX®* 4.0
defect image memory	32
lens	C-mount

electrical data

voltage supply range +Vs	18 ... 30 V DC
power consumption	typical 5 W (I_{max} = 1,5 A at 24 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)
process interface	TCP/UDP (Ethernet) RS485
visualization	web interface

non-volatile memory

flash memory size	256 Mbit Flash S29GL256P10FFI010

integrated flash controller

voltage	12 V DC or 24 V DC (permanent) 24 V DC or 48 V DC (pulsed)
current	I_{max} = 800 mA at 24 V DC (permanent) (±10 %, at least ± 100 mA, at 25 °C) I_{max} = 4 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: PMMA

environmental conditions

operating temperature	+5 … +50 °C
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

conformity

conformity	CE RoHS

The product characteristics and technical data provided do not express or imply any warranty. Technical modifications and errors reserved.

EN/220219

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 comparison	count contour points
	contour comparison
	brightness
	contrast
	area size
	count areas
	pattern comparison

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:	RS485+
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	RS485–

Ethernet connection M12 / 4-pin (on device)

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

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

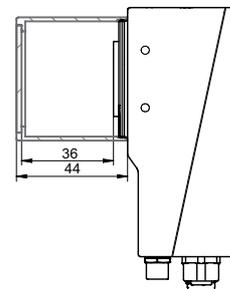|			
1:	+24 V or +48 V Flash	3:	Ground
2:	+12 V or +24 V Flash	4:	Flash Sync

voltage outputs configurable by software

dimension drawing
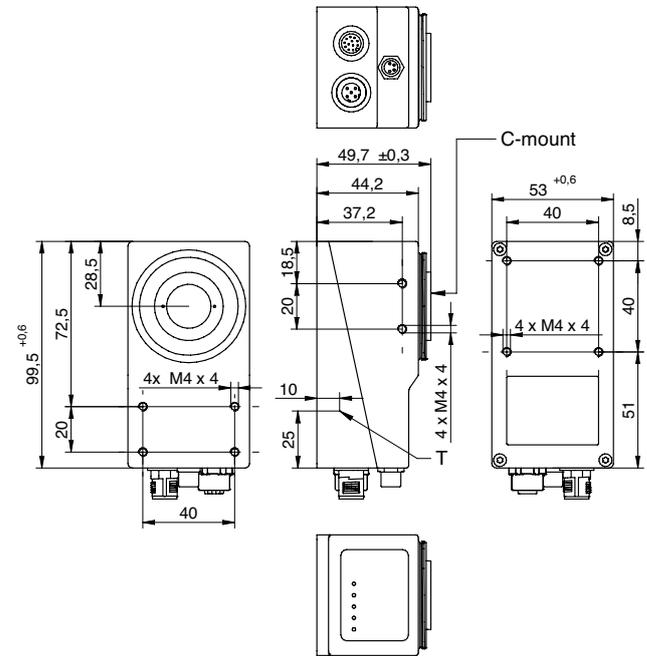
C-mount support

XC Tube, XC Tube Module