Vision sensors

VS XC100M20X00EP

XC100

Article number: 11086410

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 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	5 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)
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
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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technical data

feature checks	
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
integrated flash controller	
voltage	12 V DC or 24 V DC (permanent) 24 V DC or 48 V DC (pulsed)

integrated flash controller	
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)
conformity	
conformity	CE RoHS EAC KC (R-R-BkR-VeriSens-XC-IP)
non-volatile memory	
flash memory size	256 Mbit Flash S29GL256P10FFI010

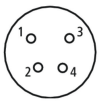
Electrical connection



1:	PWR (+18-30 V DC)	7:	OUT3
2:	Ground	8:	IN3
3:	IN1 (Trigger)	9:	OUT4
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	OUT5



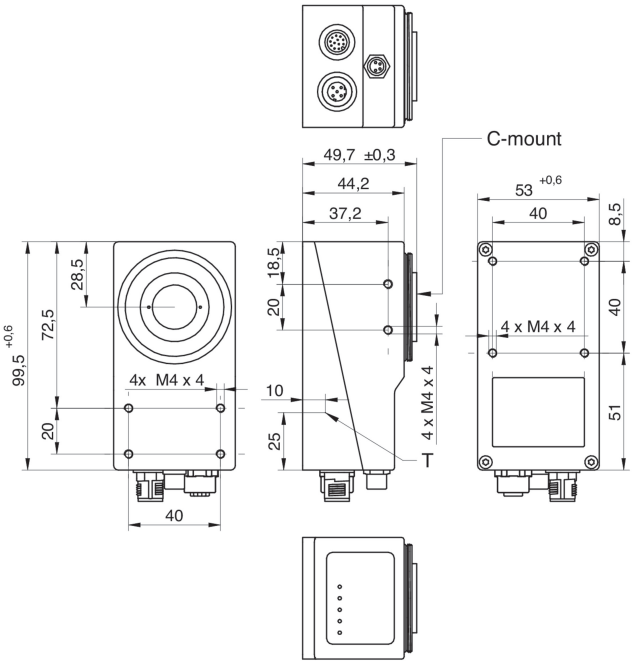
1:	TD+	3:	TD-
2:	RD+	4:	RD-



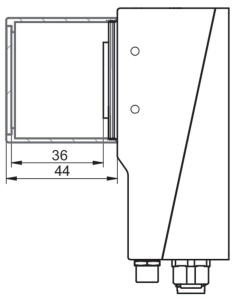
1:	+24 V or +48 V Flash	3:	Ground
2:	+12 V or +24 V Flash	4:	Flash Sync

voltage outputs configurable by software

dimension drawing



C-mount support



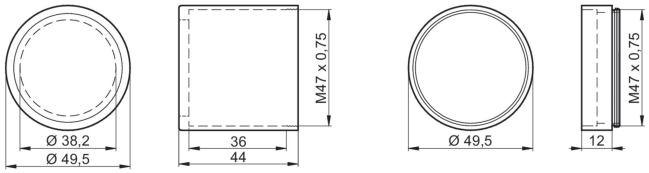
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XC Tube, XC Tube Module



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