Baumer
Passion for Sensors

Vision sensors

VS XC700M20X00IP

XC700

Article number: 11173083

overview

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

technical data

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 A @ 24 V) without illumination Typ.14 W (I_{max} = 1,5 A @ 24 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

electrical data	
digital outputs	5 outputs (PNP 100 mA) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)
process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
visualization	configurable web interface with *MultiViewer* function
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

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environmental conditions	
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
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 find object positions

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)

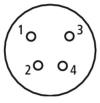
conformity	
conformity	CE RoHS KC (R-R-BkR-VeriSens-XC-IP) EAC

non-volatile memory	
flash memory size	2000 Mbit Flash S34ML02G100BHI0000

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

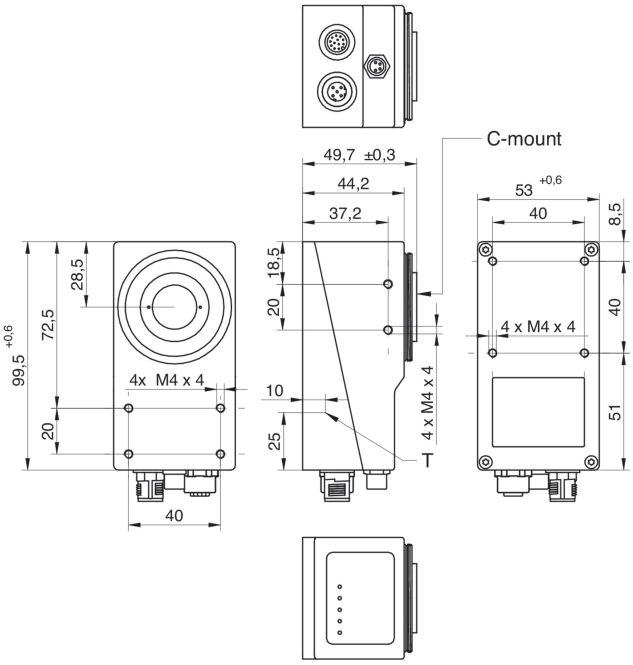
1:	TD+	3:	TD-
2:	RD+	4:	RD-



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



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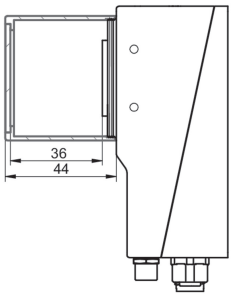
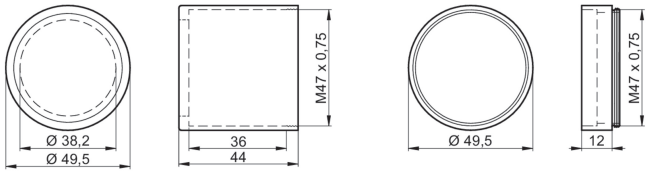
C-mount support



XC Tube, XC Tube Module



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