

overview

- 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



technical data

general data

resolution	1280 × 960 px
sensor type	1/3" CCD, monochrome
illumination	external, available as accessory
illumination connection	direct (integrated VeriFlash® flash controller)
high-resolution mode	max. 32 inspections per second
high-speed mode (limited resolution)	max. 54 inspections per second
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer FEX® 4.0
defect image memory	8
lens	C-mount

electrical data

nominal voltage power supply	24 V +- 25%
nominal voltage power supply (add-on)	Class 2 according to NEC / protection class III
nominal voltage power supply (info)	The device is intended for supply from an isolated limited power source according to UL61010-1, 3rd ed cl. 9.4 or a limited energy source according to UL60950-1 or Class 2 according to NEC.
power consumption	max. 42 W (with I/O and lighting)
inputs	8 ... 30 V (polarity protected)

electrical data

digital inputs	5 inputs trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
outputs	PNP $I_{peak} = 100 \text{ mA}$ and $I_{eff} = 50 \text{ mA}$ (short-circuit proof)
digital outputs	5 outputs 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 ... +55 °C @ T = measurement point
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technical data

environmental conditions

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

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	$I_{\max} = 800 \text{ mA}$ 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 KC (R-R-BkR-VeriSens-XC-IP) EAC UL recognized
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non-volatile memory

flash memory size	2000 Mbit Flash S34ML02G100BHI0000
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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



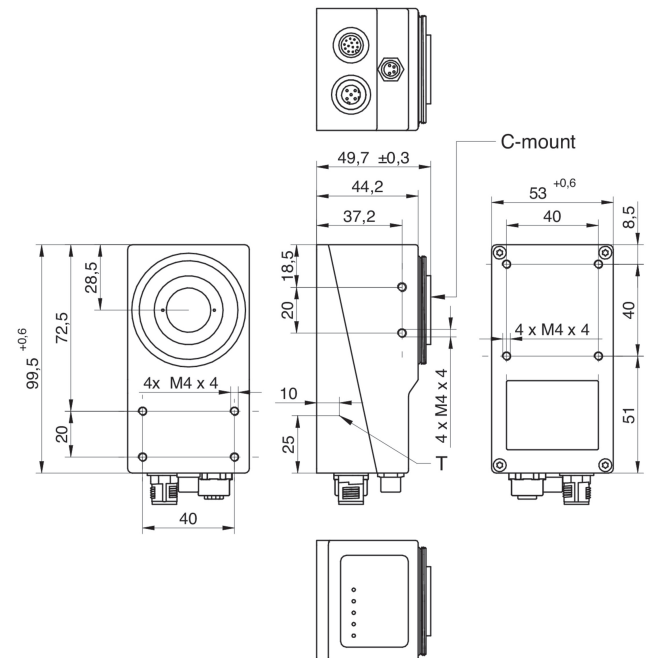
1: TD+	3: TD-
2: RD+	4: RD-



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

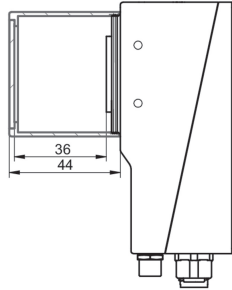


VS XC700M12X00IP

XC700

Article number: 11173084

C-mount support



XC Tube, XC Tube Module

