Baumer
Passion for Sensors

Vision sensors

VeriSens® XC800

VS XC800M12X00IP

Article number: 11166807

features

- 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

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	
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
digital outputs	5 outputs (PNP 100 mA) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)

electrical data	
process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
visualization	configurable web interface with *MultiViewer* function
non-volatile memory	
flash memory size	2000 Mbit Flash S34ML02G100BHI0000
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 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
mechanical shock resistance	EN 60068-2-27

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EN/220219

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conformity

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

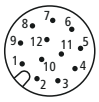
code types

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

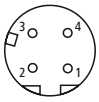
part location	part location on contours part location on edges part location on circle part location on text line
geometry	distance circle angle count edges point position edge characteristics
feature comparison	count contour points contour comparison brightness contrast area size count areas pattern comparison find object positions
identification	barcode matrix code text

electrical connection M12 / 12-pin, A-coded (on device)



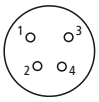
1:	PWR (+18-30 V DC)	7:	OUT3
2:	Ground	8:	IN3
3:	IN1 (Trigger)	9:	OUT4
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	OUT5

Ethernet connection M12 / 4-pin (on device)



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

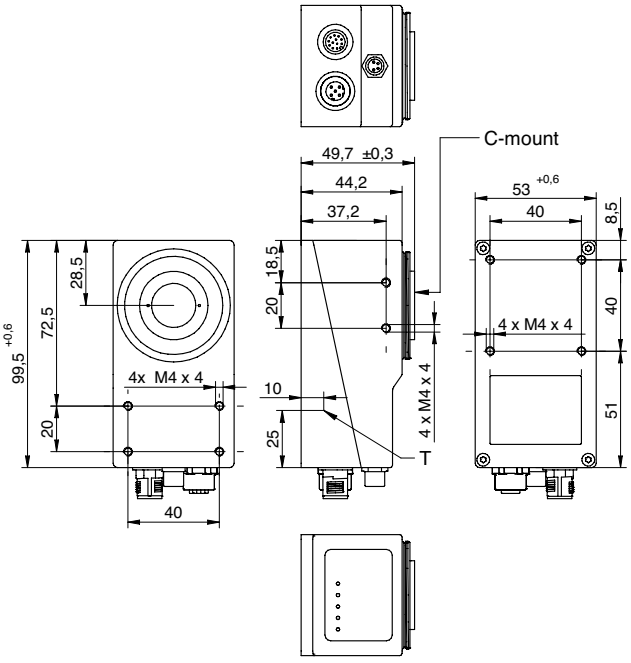
electrical connection illumination M8 / 4-pin (on device)



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



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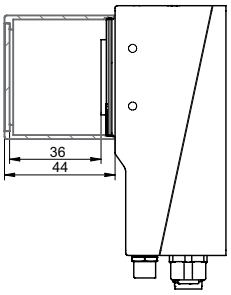
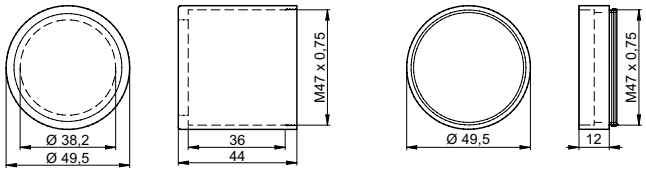
C-mount support



XC Tube, XC Tube Module



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