

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		Electrical data	
Resolution	1280 × 960 px	Digital inputs	5 inputs trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
Sensor type	1/3" CCD, monochrome	Outputs	PNP $I_{peak} = 100 \text{ mA}$ and $I_{eff} = 50 \text{ mA}$ (short-circuit proof)
Illumination	external, available as accessory	Digital outputs	5 outputs Pass / Fail Flash Sync Alarm Camera Ready Output Enable
Illumination connection	direct (integrated <i>VeriFlash</i> ® flash controller)	Initial setup	Ethernet (10BASE-T / 100BASE-TX)
High-resolution mode	max. 32 inspections per second	Process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
High-speed mode (limited resolution)	max. 54 inspections per second	Visualization	configurable web interface with <i>MultiViewer</i> function
Number of jobs (products)	≤ 255	Mechanical data	
Features per job	32	Width	53 mm (without lens/tube)
Signal processing	Baumer <i>FEX</i> ® 4.0	Height	99.5 mm (without lens/tube)
Defect image memory	8	Depth	49.8 mm (without lens/tube)
Lens	C-mount	Weight	≤ 300 g (without lens/tube)
Electrical data		Material	housing: aluminum cover glass XC tube: PMMA
Nominal voltage power supply	24 V ± 25%	Environmental conditions	
Nominal voltage power supply (add-on)	Class 2 according to NEC / protection class III	Operating temperature	+5 ... +55 °C @ T = measurement point
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)		

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

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
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Matrix code	DataMatrix (ECC 200) GS1-DataMatrix QR-Code PDF417
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Font	many font styles (recommended: sans serif, proportional) Dot Matrix characters: A-Z a-z 0-9 + - . : / ()
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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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Feature checks

Geometry	Distance circle angle count edges point position edge characteristics
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Feature comparison	count contour points contour comparison brightness contrast area size count areas pattern comparison find object positions
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Identification	Barcode Matrix code text
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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 EAC KC (R-R-BkR-VeriSens-XC-IP) 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-

Electrical connection



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

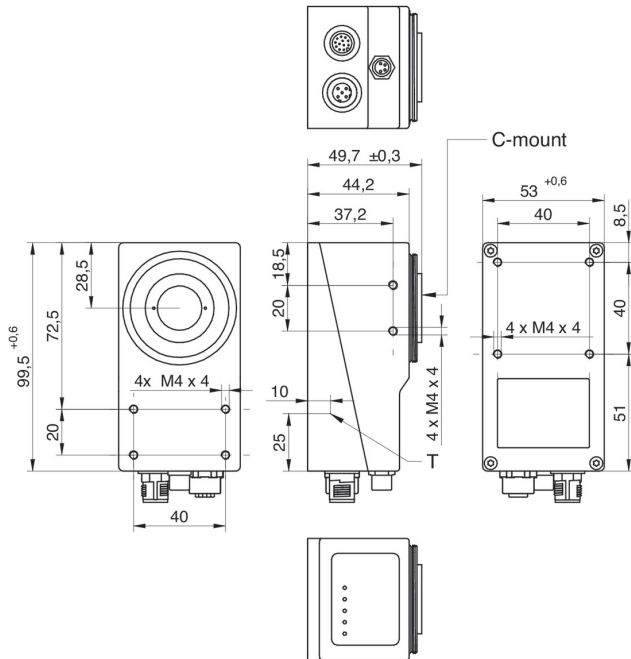
voltage outputs configurable by software

VS XC800M12X00IP

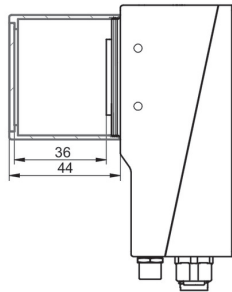
XC800

Article number: 11166807

Dimension drawing



C-mount support



XC Tube, XC Tube Module

