

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



Technical data

| General data | | Electrical data | |
|---------------------------------------|---|--------------------------|--|
| Resolution | 1600 × 1200 px | Digital inputs | 5 inputs trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz |
| Sensor type | 1/1.8" 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 VeriFlash® flash controller) | Initial setup | Ethernet (10BASE-T / 100BASE-TX) |
| High-resolution mode | max. 21 inspections per second | Process interface | PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet) |
| High-speed mode (limited resolution) | max. 35 inspections per second | Visualization | configurable web interface with MultiViewer function |
| Number of jobs (products) | ≤ 255 | Mechanical data | |
| Features per job | 32 | Width | 53 mm (without lens/tube) |
| Signal processing | Baumer FEX® 4.0 | Height | 99.5 mm (without lens/tube) |
| Defect image memory | 4 | 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

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

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|------------|---|
| Conformity | CE RoHS EAC KC (R-R-BkR-VeriSens-XC-IP) UL recognized |
|------------|---|

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- |

Electrical connection



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

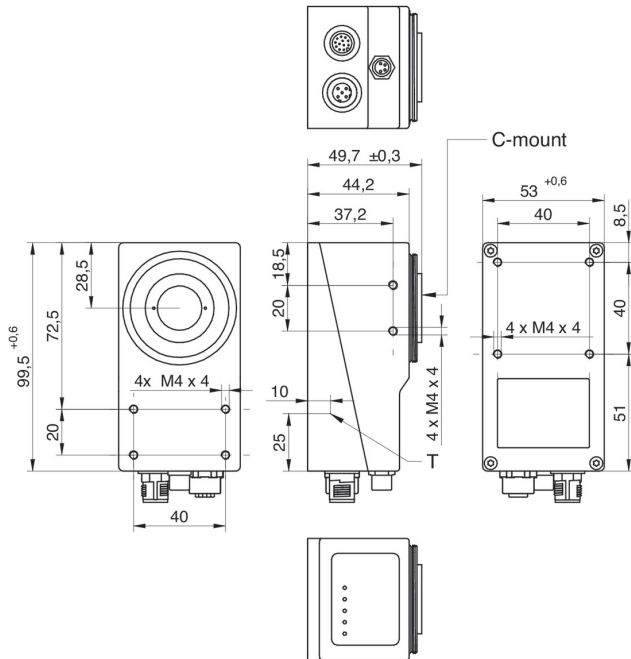
voltage outputs configurable by software

VS XC700M20X00IP

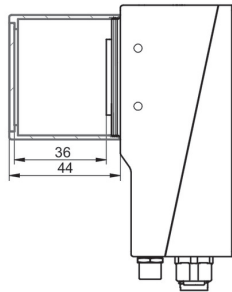
XC700

Article number: 11173083

Dimension drawing



C-mount support



XC Tube, XC Tube Module

