

## Overview

- Integrated flash controller
- User management
- Password protection
- Backup & Restore function
- Coordinate transformation
- flexible result conjunction
- Download *VeriSens*® Application Suite: [www.baumer.com/vs-sw](http://www.baumer.com/vs-sw)



Picture similar



## Technical data

### General data

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| Resolution                           | 640 × 480 px                                    |
| Sensor type                          | 1/4" CCD, monochrome                            |
| Illumination                         | direct connection (integrated flash controller) |
| Illumination connection              | as accessory                                    |
| High-resolution mode                 | max. 50 inspections per second                  |
| High-speed mode (limited resolution) | max. 100 inspections per second                 |
| Number of jobs (products)            | ≤ 255                                           |
| Features per job                     | 32                                              |
| Signal processing                    | Baumer <i>FEX</i> ® 4.0                         |
| Defect image memory                  | 32                                              |
| Lens                                 | C-mount                                         |

### Electrical data

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Voltage supply range +Vs | 18 ... 30 V DC                                                                                          |
| Power consumption        | Typical 5 W ( $I_{\max} = 1.5$ A at 24 V)                                                               |
| Digital inputs           | 5 inputs (8 ... 30 V)<br>trigger<br>job selection<br>external teach-in<br>encoders (CH-A, CH-B) 500 kHz |
| Digital outputs          | 5 outputs (PNP)<br>Pass / Fail<br>Flash Sync<br>Alarm<br>Camera Ready<br>Output Enable                  |

### Electrical data

|                   |                                  |
|-------------------|----------------------------------|
| Initial setup     | Ethernet (10BASE-T / 100BASE-TX) |
| Process interface | TCP/UDP (Ethernet)               |
| Visualization     | web interface                    |

### 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<br>cover glass: PMMA |

### Environmental conditions

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating temperature       | +5 ... +55 °C @ T = measurement point |
| Storage temperature         | -20 ... +70 °C                        |
| Case temperature            | max. +50 °C                           |
| Humidity                    | 0 ... 90 % (non-condensing)           |
| Protection class            | IP 67 (with tube)                     |
| Vibration load              | IEC 60068-2-6<br>IEC 60068-2-64       |
| Mechanical shock resistance | EN 60068-2-27                         |

## Technical data

### Code types

|             |                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Barcode     | 2/5 Industrial<br>2/5 Interleaved<br>Codabar<br>Code 39<br>Code 93<br>Code 128<br>PharmaCode<br>EAN 8<br>EAN 13<br>UPC-A<br>UPC-E<br>GS1 DataBar<br>GS1 128 |
| Matrix code | DataMatrix (ECC 200)<br>GS1-DataMatrix<br>QR-Code<br>PDF417                                                                                                 |
| Font        | many font styles (recommended: sans serif, proportional)<br>Dot Matrix<br>characters: A-Z a-z 0-9 + - . : / ( )                                             |

### Feature checks

|               |                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------|
| Part location | part location on contours<br>part location on edges<br>part location on circle<br>part location on text line |
| Geometry      | Distance<br>circle<br>angle<br>count edges<br>point position<br>edge characteristics                         |

### Feature checks

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Feature comparison | count contour points<br>contour comparison<br>brightness<br>contrast<br>area size<br>count areas<br>pattern comparison |
|--------------------|------------------------------------------------------------------------------------------------------------------------|

### Identification

Barcode  
Matrix code  
text

### Integrated flash controller

|            |                                                                                                                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage    | 12 V DC or 24 V DC (permanent)<br>24 V DC or 48 V DC (pulsed)                                                                                                                                                             |
| Current    | $I_{\max} = 800 \text{ mA}$ at 24 V DC (permanent)<br>( $\pm 10 \%$ , at least $\pm 100 \text{ mA}$ , at 25 °C)<br>$I_{\max} = 4 \text{ A}$ at 48 V DC (pulsed) (+10/-20 %<br>, at least $\pm 100 \text{ mA}$ , at 25 °C) |
| Flash time | max. 1 ms (Duty Cycle max. 1:10)                                                                                                                                                                                          |

### Conformity

|            |                                           |
|------------|-------------------------------------------|
| Conformity | CE<br>RoHS<br>KC (R-R-BkR-VeriSens-XC-IP) |
|------------|-------------------------------------------|

### Non-volatile memory

|                   |                                  |
|-------------------|----------------------------------|
| Flash memory size | 256 Mbit Flash S29GL256P10FFI010 |
|-------------------|----------------------------------|

## 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 |

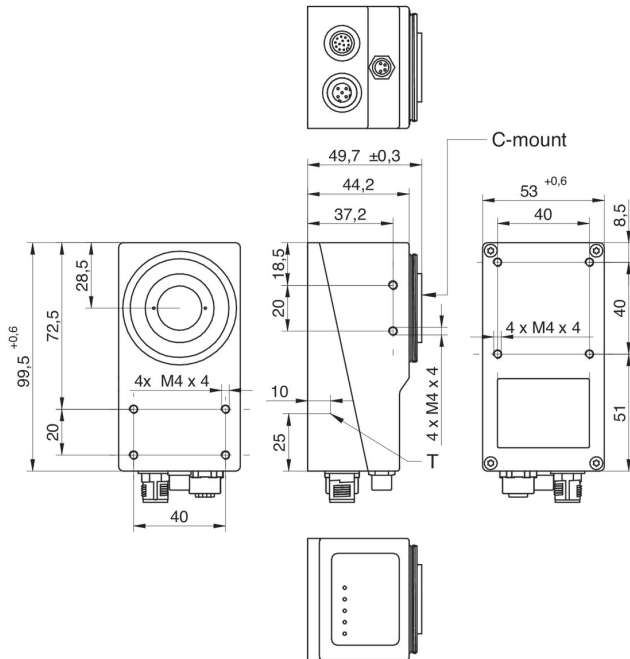
voltage outputs configurable by software

# VS XC200M03X00EP

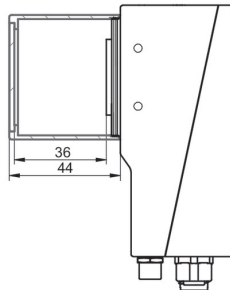
XC200

Article number: 11086175

## Dimension drawing



## C-mount support



## XC Tube, XC Tube Module

