

# VS XF205M03W10EP

XF205

Article number: 11127049

## overview

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



## technical data

### general data

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| resolution                           | 752 × 480 px                           |
| sensor type                          | 1/3" CMOS, monochrome                  |
| illumination                         | integrated, LED white                  |
| LED class                            | risk group 1 (low risk, EN 62471:2008) |
| high-resolution mode                 | max. 50 inspections per second         |
| high-speed mode (limited resolution) | max. 100 inspections per second        |
| object distance min.                 | 50 mm                                  |
| number of jobs (products)            | ≤ 255                                  |
| features per job                     | 32                                     |
| signal processing                    | Baumer FEX® 4.0                        |
| defect image memory                  | 32                                     |
| lens                                 | 10 mm                                  |

### electrical data

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| voltage supply range +Vs | 18 ... 30 V DC                                                                                          |
| power consumption        | typical 5 W ( $I_{\max} = 1 \text{ A}$ 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                  |
| initial setup            | Ethernet (10BASE-T / 100BASE-TX)                                                                        |
| process interface        | TCP/UDP (Ethernet)                                                                                      |

### electrical data

|               |               |
|---------------|---------------|
| visualization | web interface |
|---------------|---------------|

### mechanical data

|          |                                                      |
|----------|------------------------------------------------------|
| width    | 53 mm                                                |
| height   | 107,5 mm                                             |
| depth    | 38 mm                                                |
| weight   | ≤ 700 g                                              |
| material | housing: stainless steel 1.4404<br>cover glass: PMMA |

### environmental conditions

|                             |                                       |
|-----------------------------|---------------------------------------|
| operating temperature       | +5 ... +60 °C @ T = measurement point |
| storage temperature         | -20 ... +70 °C                        |
| case temperature            | max. +50 °C                           |
| humidity                    | 0 ... 90 % (non-condensing)           |
| protection class            | IP 69K                                |
| 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 |
|---------------|--------------------------------------------------------------------------------------------------------------|

### feature checks

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| geometry           | distance<br>circle<br>angle<br>count edges<br>point position<br>edge characteristics                                   |
| feature comparison | contour comparison<br>count contour points<br>brightness<br>contrast<br>area size<br>count areas<br>pattern comparison |
| identification     | barcode<br>matrix code<br>text                                                                                         |

### conformity

|            |            |
|------------|------------|
| conformity | CE<br>RoHS |
|------------|------------|

### 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- |

## dimension drawing

