



Vision sensors

# VeriSens® XF-205

VS XF205M03W10EP

Article number: 11127049



## features

- User management
- Password protection
- Backup & Restore function
- Coordinate conversion
- flexible result conjunction

## general data

|                                      |  |
|--------------------------------------|--|
| resolution                           | 752 × 480 px                           |
| sensor type                          | 1/3" CMOS, monochrome                  |
| 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                                     |
| defect image memory                  | 32                                     |
| signal processing                    | Baumer FEX® 4.0                        |
| illumination                         | integrated, LED white                  |
| lens                                 | 10 mm                                  |

## electrical data

|                          |   |
|--------------------------|---|
| voltage supply range +Vs | 18 ... 30 V DC  |
| power consumption        | typical 5 W ( $I_{max} = 1$ 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)  |
| visualization            | web interface   |

## mechanical data

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

## environmental conditions

|                             |                                 |
|-----------------------------|---------------------------------|
| operating temperature       | +5 ... +50 °C                   |
| 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                   |

## 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   |

The product characteristics and technical data provided do not express or imply any warranty. Technical modifications and errors reserved.

### code types

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 contour comparison  
 count contour points  
 brightness  
 contrast  
 area size  
 count areas  
 pattern comparison

identification barcode  
 matrix code  
 text

### electrical connection M12 / 12-pin (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- |

### dimension drawing

