Baumer
Passion for Sensors

Vision sensors

VS XF205M03W16EP

XF205

Article number: 11128398

overview

- User management
- Password protection
- Backup & Restore function
- Coordinate conversion
- flexible result conjunction
- Download *VeriSens*® Application Suite: 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.	70 mm
object distance max.	300 mm
number of jobs (products)	≤ 255
features per job	32
signal processing	Baumer *FEX*® 4.0
defect image memory	32
lens	16 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) trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital outputs	5 outputs (PNP) Pass / Fail Flash Sync Alarm Camera Ready Output Enable

electrical data	
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
weight	≤ 700 g
material	housing: stainless steel 1.4404 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 IEC 60068-2-64
mechanical shock resistance	EN 60068-2-27

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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
matrix code	DataMatrix (ECC 200) GS1-DataMatrix QR-Code PDF417
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

feature checks

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

conformity

conformity	CE RoHS UL

non-volatile memory

flash memory size	256 Mbit Flash S29GL256P10FFI010

Electrical connection

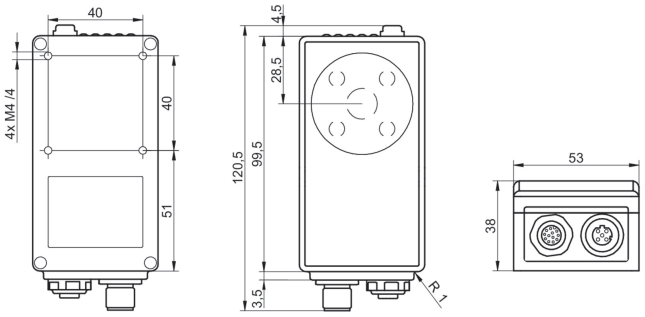


1:	PWR (+18-30 V DC)	7:	OUT3
2:	Ground	8:	IN3
3:	IN1 (Trigger)	9:	OUT4
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	OUT5



1:	TD+	3:	TD-
2:	RD+	4:	RD-

dimension drawing



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