Vision sensors

VS XF100M03W16RP

XF100

Article number: 11128422

overview

- User management
- Password protection
- Backup & Restore function
- Coordinate transformation
- 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

electrical data	
digital outputs	3 outputs (PNP) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)
process interface	TCP/UDP (Ethernet) RS485
visualization	web interface
mechanical data	
width	53 mm
height	99,5 mm
depth	38 mm
weight	≤ 250 g
material	housing: aluminum 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 67
vibration load	IEC 60068-2-6 IEC 60068-2-64

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technical data

environmental conditions	
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

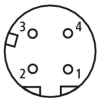
conformity	
conformity	CE KC (R-REI-BkR-VeriSens-RP) RoHS UL

non-volatile memory	
flash memory size	256 Mbit Flash S29GL256P10FFI010

Electrical connection

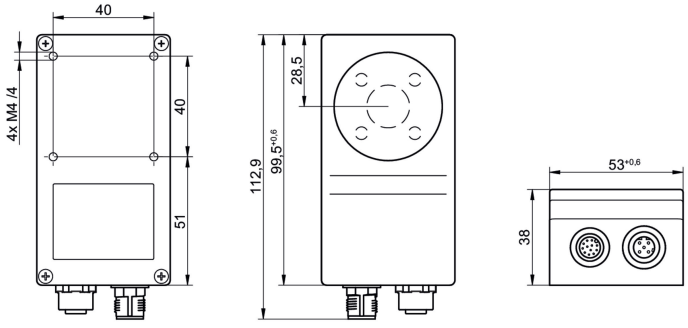


1:	PWR (+18-30 V DC)	7:	OUT3
2:	Ground	8:	IN3
3:	IN1 (Trigger)	9:	RS485+
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	RS485-



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

dimension drawing



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