Baumer
Passion for Sensors

Vision sensors

VS XF700M03I08IP

XF700

Article number: 11700463

Overview

- PROFINET and EtherNet/IP interface integrated
- *FEX* image processor
- *FEXLoc* 360° part location
- Flexible result conjunction
- Download *VeriSens* Application Suite: www.baumer.com/vs-sw

RoHS COMPLIANT

c UL US LISTED E504685

Technical data

General data	
Resolution	752 × 480 px
Sensor type	1/3″ CMOS, monochrome
Illumination	integrated, LED infrared (860 nm)
LED class	free group (risk free, 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
Object distance max.	450 mm
Number of jobs (products)	≤ 255
Features per job	32
Signal processing	Baumer *FEX*® 4.0
Defect image memory	32
Lens	8 mm
Electrical data	
Nominal voltage power supply	24 V +- 25%
Nominal voltage power supply (add-on)	Class 2 according to NEC / protection class III
Nominal voltage power supply (info)	The device is intended for supply from an isolated limited power source according to UL61010-1, 3rd ed cl. 9.4 or a limited energy source according to UL60950-1 or Class 2 according to NEC.
Power consumption	max. 18 W (with I/O)
Inputs	8 … 30 V (polarity protected)

Electrical data	
Digital inputs	5 inputs trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
Outputs	PNP I_{peak} = 100 mA and I_{eff} = 50 mA (short-circuit proof)
Digital outputs	5 outputs Pass / Fail Flash Sync Alarm Camera Ready Output Enable
Initial setup	Ethernet (10BASE-T / 100BASE-TX)
Process interface	PROFINET (CC-A) EtherNet/IP™ TCP/UDP (Ethernet)
Visualization	configurable web interface with *MultiViewer* function
Mechanical data	
Width	53 mm
Height	99.5 mm
Depth	38 mm
Weight	≤ 250 g
Material	housing: aluminum cover glass: PMMA, integrated daylight filter (780 nm)
Environmental conditions	
Operating temperature	+5 … +60 °C @ T = measurement point

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Technical data

Environmental conditions	
Storage temperature	-20 … +70 °C
Humidity	0 … 90 % (non-condensing)
Protection class	IP 67
Vibration load	IEC 60068-2-6 IEC 60068-2-64
Mechanical shock resistance	EN 60068-2-27

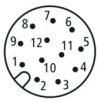
Feature checks	
Part location	part location on contours part location on edges part location on circle part location on text line
Geometry	Distance circle angle count edges point position edge characteristics

Feature checks	
Feature comparison	count contour points contour comparison brightness contrast area size count areas pattern comparison find object positions

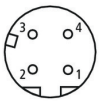
Conformity	
Conformity	CE RoHS EAC UL

Non-volatile memory	
Flash memory size	2000 Mbit Flash S34ML02G100BHI0000

Electrical connection

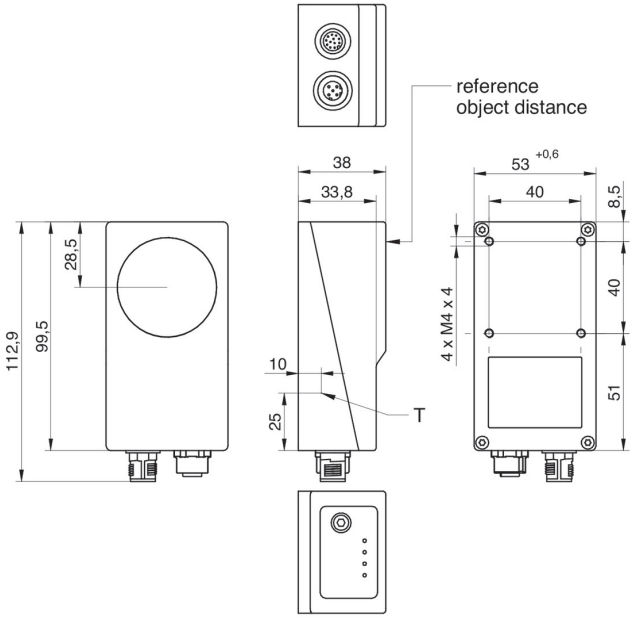


1:	PWR (+18-30 V DC)	7:	OUT3
2:	Ground	8:	IN3
3:	IN1 (Trigger)	9:	OUT4
4:	OUT1	10:	IN4
5:	IN2	11:	IN5
6:	OUT2	12:	OUT5



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

Dimension drawing



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