Baumer
Passion for Sensors

Vision sensors

VS XF700M03I16IP

XF700

Article number: 11173088

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
- available

CE **RoHS COMPLIANT**

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.	100 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	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 … +50 °C @ T = measurement point
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

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technical data

feature checks

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
	find object positions

conformity

conformity	CE
	RoHS

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

reference
object distance

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