Baumer
Passion for Sensors

Vision sensors

VS XF700C03W16IP

XF700

Article number: 11197479

overview

- PROFINET and EtherNet/IP™ interface integrated
- *FEX*® image processor
- *FEXLoc*® 360° part location
- *ColorFEX*® intelligent 3D color assistant
- Flexible result conjunction
- Download *VeriSens*® Application Suite: www.baumer.com/vs-sw
- available

CE RoHS COMPLIANT EAC

technical data

general data

resolution	752 × 480 px
sensor type	1/3″ CMOS, color
illumination	integrated, LED white
LED class	risk group 1 (low risk, EN 62471:2008)
high-resolution mode	max. 50 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	Typ. 8 W (I_{max} = 1 A @ 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 100 mA) Pass / Fail Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)

electrical data

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

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

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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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
	color identification
	color positioning

conformity

conformity	CE
	RoHS
	EAC

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