SIEMENS

Data sheet 6ET2901-0AA01-1BA0



Figure similar

Siemens Inspekto Vision Inspection System V6 'Siemens Inspekto VIS V6' for short optical, AI-supported system for presence and deviation detection. Supports unlimited number of active profiles. physical license certificate

General information	
Product function	
Visual inspection	
— inspection cycle	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors
— object speed, max.	0.75 m/s
— installation clearance, min.	2 cm
— installation clearance, max.	100 cm; recommended max. distance
— smallest fault size	0.33 mm at 10 cm distance without optical zoom
— optical magnification	17
— optical settings	autonomous embedded anti-reflection adaptive lighting
— image detection	autonomous
— positioning	autonomous
— trigger type	auto / manual / PLC / trigger-in
— color range of sensor	grayscale
— number of inspection profiles	unlimited (limited only by hardware resources)
— number of possible inspection areas	unlimited (limited only by hardware resources)
Camera	
— vision standard	GigE Vision
— dynamic range	12 bit
— frame rate	36 1/s
— Image resolution	2 048 x 1 536
— focal length, min.	6 800 µm; Wide
— focal length, max.	136 000 µm; tele
— object width, min.	1 cm; Wide
— object width, max.	90 cm; tele
— iris	F1.5 (wide) to F3.4 (tele)
— sensor format	1/1.8"
— pixel format	3 450 nm
— sensor type	Sony IMX26LLR-C
— shutter type	global
— pixel size	3.45 µm
— IR cut filter	Yes (removable)
— shutter	20 ms up to 30 s
— gain	0 dB to 48 dB
illumination	
— light color	white 5 700 K (CRI80)
— LED technology	SMD LEDs

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— width of light-emitting surface	100 mm
— length of light-emitting surface	100 mm
— illuminance	40 000 lx; at 0.1 m
— electrical power at the light field, max.	16.8 W; normal mode
— Operating mode	continuous and switching operation; 4 separately controllable segments
— ON-delay	10.5 µs
— illumination controller	integrated illumination controller
— continuous operation	with no firmware activated, light operates in continuous mode only, red status LED lights up (with firmware activated red status LED turns off)
— PLC switching input	low level ≤ 8 V DC; high level = 12 to 30 V DC; internally limited to 6 mA Switch-on delay 2.5 µs to MCU
— Boost mode	brings 32.4 W to light field for illumination increase, max. switch-on time 500 ms with duty factor 50 %
— risk group	Exempt Group (DIN EN 62471)
Installation type/mounting	
Mounting accessories	including
Supply voltage	
Design of the power supply	DC
permissible range, lower limit (DC)	24 V
permissible range, upper limit (DC)	24 V
Interfaces	
Ethernet interface	Yes
Protocols	
PROFINET	Yes
EtherNet/IP	Yes
Protocols (Ethernet)	
● TCP/IP	Yes
Degree and class of protection	
IP degree of protection	IP20 control cabinet installation / open type
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
● min.	10 °C
● max.	45 °C
● min. [°F]	50 °F
● max. [°F]	113 °F
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	2 000 m
Relative humidity	
● Operation, min.	20 %
● Operation, max.	80 %
Operating systems	
pre-installed operating system	LINUX
Connection method	
Type of connection	plugged, screwed
Dimensions	
width of controller	262 mm
height of controller	139.7 mm
depth of controller	62.6 mm
camera width	71 mm
camera height	71 mm
camera depth	147 mm
lighting width	130 mm
lighting height	130 mm
lighting depth	20.5 mm
Weights	
weight of controller	2.2 kg
Classifications	

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	Version	Classification
eClass	14	27-31-02-06

Approvals / Certificates

General Product Approval			EMV	Test Certificates
CE EG-Konf.	UKCA	CE EG-Konf.	Environmental Confirmations	Miscellaneous	TUEV

Test Certificates

inspection certificate	Miscellaneous

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