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DATA SHEET

V2D621G-2MSXBB5

GLS6
Image-based code readers

SICK Sensor Intelligence

IMAGE-BASED CODE READERS

V2D621G-2MSXBB5

ORDERING INFORMATION

Type	part no.
V2D621G-2MSXBB5	1101204

Further device versions and accessories at www.sick.com/GLS6



DETAILED TECHNICAL DATA

FEATURES

Optical focus	Teach auto focus ¹⁾
Illumination	Integrated
Illumination color	Red, LED, Visible, 617 nm, ± 15 nm Blue, LED, Visible, 470 nm, ± 15 nm
LED class	1 (IEC 62471:2006-07, EN 62471:2008-09)
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm
Alignment aid	Laser, Visible, 630 nm ... 680 nm
Laser class	1, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021)
Reading distance	70 mm ... 500 mm
Overrun speed	≤ 5 m/s
Accuracy (position)	± 0.1 mm ²⁾
Repeatability (position)	± 0.05 mm ²⁾
Working range	70 mm ... 500 mm

¹⁾ SOPAS ET configuration software.

²⁾ Reading distance 90 mm.

MECHANICS/ELECTRONICS

Connection type	1 x M12, 17-pin male connector 1 x M12, 4-pin Ethernet female connector Circular plug-in connector
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³⁾ Swivel connector is 17.8 mm longer.

Supply voltage	12 V AC ... 24 V DC, ± 20 %
Power consumption	Typ. 4 W
Output current	≤ 100 mA
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (EN 60529, EN 60529/A2)
Protection class	III
Electrical safety	EN 62368
Weight	170 g
Dimensions (L x W x H)	71 mm x 43 mm x 35.6 mm ¹⁾
MTTFd	270 years

¹⁾ Swivel connector is 17.8 mm longer.

SAFETY-RELATED PARAMETERS

MTTF ₀	270 years
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PERFORMANCE

Readable code structures	2D codes
2D code types	Data Matrix ECC200, QR code
Code qualification	On the basis of ISO/IEC 16022, ISO/IEC 15415, ISO/IEC 15416, ISO/IEC 18004

INTERFACES

Ethernet	Function	✓, TCP/IP
	Data transmission rate	Data interface (read result output), Service interface, OPC DA Server, FTP (image transmission) 10/100 MBit/s
PROFINET	Function	✓
	Data transmission rate	PROFINET Single Port 10/100 MBit/s
EtherNet/IP™	Function	✓
	Data transmission rate	10/100 MBit/s
Serial	Function	✓, RS-232, RS-422
	Data transmission rate	Data interface (read result output), Service interface 0.3 kBaud ... 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN	Function	✓
	Data transmission rate	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server) 20 kbit/s ... 1 Mbit/s
CANopen	Function	✓
	Data transmission rate	20 kbit/s ... 1 Mbit/s
USB	Remark	✓
	Function	USB 2.0 (for parameterization only) Service interface
Optical indicators		16 LEDs (5 x status display, 10 x LED bar graph, 1 green feedback spot)
Acoustic indicators		Beeper/buzzer (can be switched on, can be assigned a function to signal a result)
Configuration software		SOPAS ET (version 2018.04 or higher)
Memory card		microSD memory card (flash card), optional
Data storage and retrieval		Image and data storage via microSD memory card and external FTP
EncoderFrequency		Max. 300 Hz
External illumination control		Via digital output (max. 24 V trigger)

AMBIENT DATA

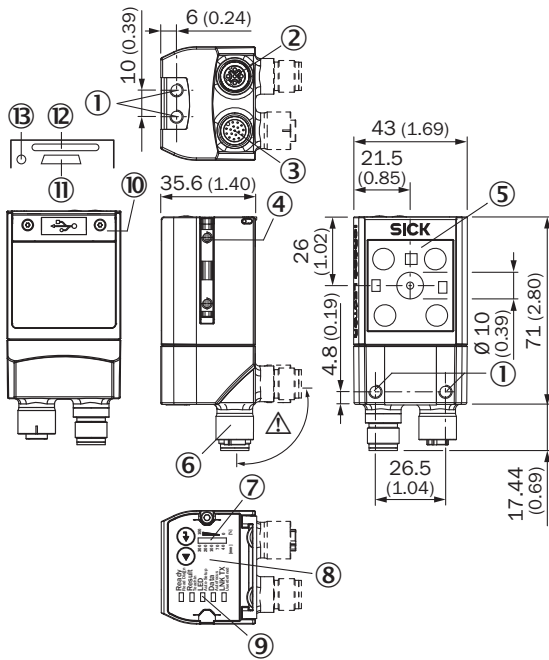
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005-08 / EN 61000-6-4 (2007-01) + A1 (2011)
Vibration resistance	EN 60068-2-6:2008-02
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	0 °C ... +50 °C ¹⁾
Storage temperature	-20 °C ... +70 °C
Relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on code

¹⁾ For mounting on a metal mounting bracket.

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
KC Mark certificate	✓
BIS registration	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

structure and device dimensions, unit: mm (inch), decimal separator: period

- ① M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ② “Ethernet” connection, 4-pin M12 female connector, D-coded
- ③ “Power/Serial Data/CAN/I/O” connection, 17-pin M12 male connector, A-coded
- ④ sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- ⑤ reading window with internal illumination LEDs (4 x)
- ⑥ swivel connector unit
- ⑦ Bar graph
- ⑧ beeper (under housing cover)
- ⑨ LEDs for status display (2 levels), 5 x
- ⑩ Cover (flap)
- ⑪ “USB” connection (female connector, 5-pin, type Micro-B) interface for temporary use (service)
- ⑫ Slot for microSD memory card
- ⑬ LED for microSD memory card

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1101204



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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