



V2D611G-MMSBE4

GLS6

IMAGE-BASED CODE READERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
V2D611G-MMSBE4	1114539

Other models and accessories → www.sick.com/GLS6



Detailed technical data

Features

Optical focus	Adjustable focus (manually)
Illumination	Integrated
Illumination color	Amber, LED, Visible, 617 nm, ± 15 nm Blue, LED, Visible, 470 nm, ± 15 nm
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm LED, Visible, Red, 635 nm, ± 15 nm
Alignment aid	Laser, Visible, 630 nm ... 680 nm
LED class	1 (IEC 62471:2006-07, EN 62471:2008-09)
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	50 mm ... 300 mm
Overrun speed	≤ 5 m/s
Accuracy (position)	± 0.1 mm ¹⁾
Repeatability (position)	± 0.05 mm ¹⁾

¹⁾ 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
Supply voltage	12 V AC ... 24 V DC, ± 15 %
Power consumption	Typ. 3.5 W
Output current	≤ 50 mA
Housing	Zinc diecast
Housing color	Light blue (RAL 5012)

Enclosure rating	IP54 (EN 60529, EN 60529/A2)
Protection class	III
Electrical safety	EN 62368
Weight	165 g
Dimensions (L x W x H)	50 mm x 40.3 mm x 29.6 mm

Performance

Readable code structures	2D
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	✓, TCP/IP
Function	Data interface (read result output), FTP (image transmission)
Data transmission rate	10/100 MBit/s
PROFINET	✓
Function	PROFINET Single Port
Data transmission rate	10/100 MBit/s
EtherNet/IP™	✓
Data transmission rate	10/100 MBit/s
Serial	✓, RS-232
Function	Data interface (read result output)
Data transmission rate	0.3 kBaud ... 115.2 kBaud
CAN	✓
Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
Data transmission rate	20 kbit/s ... 1 Mbit/s
CANopen	✓
Data transmission rate	20 kbit/s ... 1 Mbit/s
Digital outputs	3 (physical, switching, "Result 1" ... "Result 3")
Optical indicators	9 LEDs (6 status displays, 2 LED alignment aids, 1 feedback spot)
Configuration software	SOPAS ET (version 2018.04 or higher)
Data storage and retrieval	Image and data storage via external FTP
Maximum encoder frequency	300 Hz
External illumination control	Via digital output (max. 24 V trigger)

Ambient data

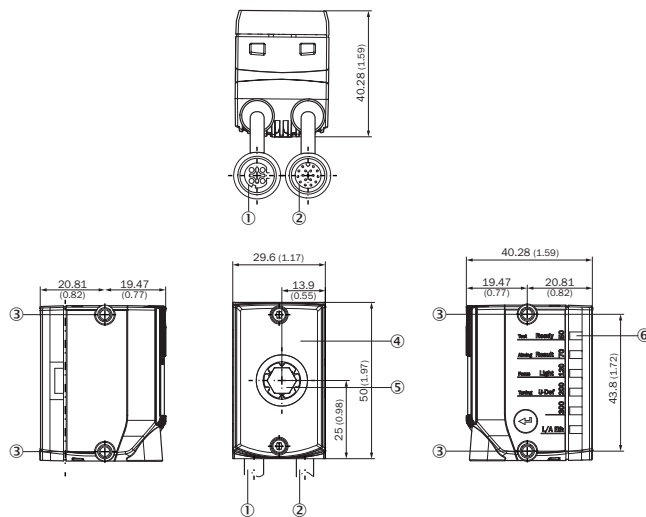
Electromagnetic compatibility (EMC)	EN 61000-6-4:2007+A1:2011, IEC 61000-6-3:2006+AMD1:2010, EN 61000-6-2:2005-08
Vibration resistance	EN 60068-2-6:2008-02
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	0 °C ... +40 °C ¹⁾
Storage temperature	-20 °C ... +70 °C
Permissible relative humidity	90 %, Non-condensing

¹⁾ For ambient operating temperatures of ≥ 35 °C, mount the device using an aluminum mounting bracket (e.g., part number 2113160, 2112790).

Classifications

ECLASS 5.0	27280103
ECLASS 5.1.4	27280103
ECLASS 6.0	27280103
ECLASS 6.2	27280103
ECLASS 7.0	27280103
ECLASS 8.0	27280103
ECLASS 8.1	27280103
ECLASS 9.0	27280103
ECLASS 10.0	27280103
ECLASS 11.0	27280103
ECLASS 12.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002999
ETIM 8.0	EC002999
UNSPSC 16.0901	43211701

Dimensional drawing (Dimensions in mm (inch))







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

- ① Connecting cable with Ethernet connection (female connector, M12, 4-pin, D-coded), length of cable: 0.25 m
- ② Connecting cable with Power/Serial Data/CAN/I/O connection (male connector, M12, 17-pin, A-coded), length of cable: 0.35 m
- ③ 4 M4 threaded mounting holes: through hole; 6.4 mm deep; max. depth of thread 5 mm
- ④ Viewing window with 8 integrated illumination LEDs, 2 LED alignment aids, 1 feedback LED, 1 time-of-flight sensor
- ⑤ Optics, manual focus adjustment with the help of a focus adjustment tool
- ⑥ 6 status LEDs to display the focus position and working distance and device status (2 display levels)

Recommended accessories

Other models and accessories → www.sick.com/GLS6

	Brief description	Type	Part no.
Codes			
	Multi code label with 16 data matrix codes for localizing AGV systems, customized alphanumeric code content, self-adhesive. Recommended for GLS611&621.	Multi-code label	4105695
Mounting brackets and plates			
	Bracket with adapter board	Mounting bracket	2113160
Plug connectors and cables			
	<ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 17-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Power, serial, CAN, digital I/Os • Cable: 2 m, 17-wire, stripped, PE-X • Description: Power, serial, CAN, digital I/Os, suitable for 2 A, Changed color coding of the flying leads, shielded • Connection systems: Flying leads • Application: Drag chain operation 	YF2ASD-020XXXXLECX	2081094
	<ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 4-pin, straight • Signal type: Ethernet, PROFINET • Cable: 2 m, 4-wire, PUR, halogen-free • Description: Ethernet, PROFINET, shielded • Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-020PN1MRJA4	2106182

Recommended services

Additional services → www.sick.com/GLS6

	Type	Part no.
Extended warranty		
<ul style="list-style-type: none"> • Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors • Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). • Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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