



GLS100G-1MBB1FZ

GLS100

IMAGE-BASED CODE READERS

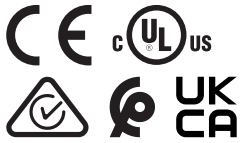
SICK
Sensor Intelligence.



Ordering information

Type	part no.
GLS100G-1MBB1FZ	1116319

Other models and accessories → www.sick.com/GLS100



Detailed technical data

Features

Optical focus	Fixed focus
LED class	Free group (IEC 62471:2006-07, EN 62471:2008-09)
Light source	Internal lighting, 2 x LED, Visible, Amber, 590 nm, ± 80 nm
Reading distance	100 mm ^{1) 2)}
Overrun speed	≤ 3.5 m/s
Repeatability (position)	± 0.1 mm (3 sigma)
Angular accuracy (azimuth)	± 0.1 ° (3 sigma)
Working range	100 mm ... 100 mm ^{1) 2)}

¹⁾ ± 30 mm.

²⁾ With the SICK multicode label.

Mechanics/electronics

Supply voltage	10.8 V ... 30 V
Power consumption	< 3 W
Housing material	Zinc diecast
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (EN 60529, EN 60529/A2)
Protection class	III
Weight	250 g
Dimensions (L x W x H)	31 mm x 62 mm x 52.5 mm

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

CANopen	✓
Data transmission rate	50/125/250/500/1,000 kbit/s
Optical indicators	2 LEDs (1 x voltage supply, 1 x code read)

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-3:2007+A1:2011, EN 61000-6-2:2005-08 / IEC 61000-6-3:2006+AMD1:2010
Vibration resistance	EN 60068-2-6:2008-02 / EN 60068-2-27:2010-02
Ambient operating temperature	0 °C ... +50 °C
Storage temperature	-25 °C ... +75 °C
Permissible relative humidity	90 %, Non-condensing

Connection type/pinouts

Connection type	Connector M12, 5-pin, A-coded
Pinouts	
BN 1	V IN
WH 2	CAN HIGH
BU 3	GND
BK 4	n.c.
GY 5	CAN LOW

Certificates

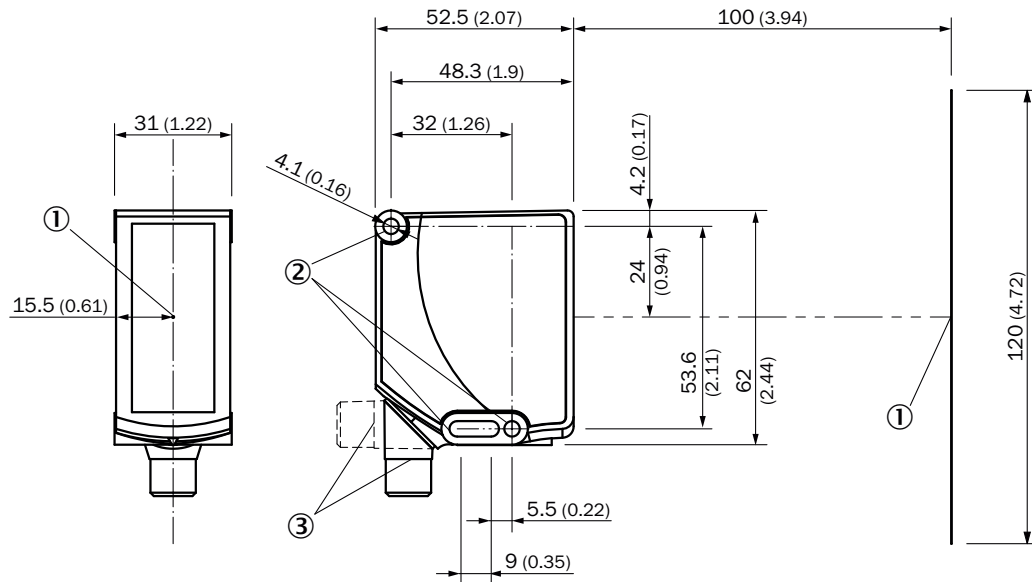
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Photobiological safety (IEC EN 62471)	✓

Classifications

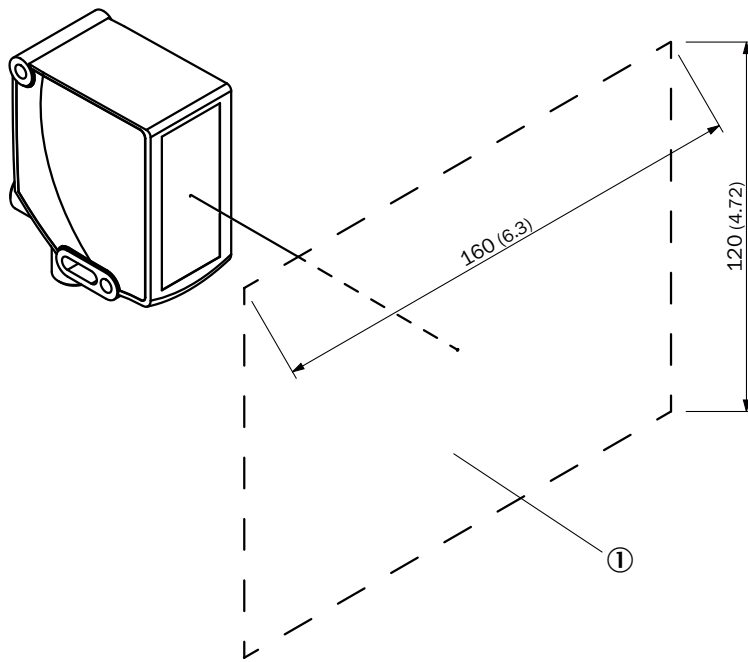
ECLASS 5.0	27280103
ECLASS 5.1.4	27280103
ECLASS 6.0	27280103
ECLASS 6.2	27280103
ECLASS 7.0	27280103
ECLASS 8.0	27280103
ECLASS 8.1	27280103
ECLASS 9.0	27280103
ECLASS 10.0	27280103
ECLASS 11.0	27280103
ECLASS 12.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550

ETIM 7.0	EC002999
ETIM 8.0	EC002999
UNSPSC 16.0901	43211701

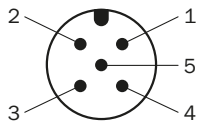
Dimensional drawing, sensor



Field of view

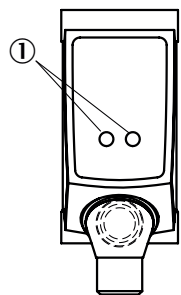


① Field of view (W x H)

Pinouts, see table [Technical data: Connection type/pinouts](#)

Male connector, M12, 5-pin, A-coded

display and adjustment elements



① Status indicators

Recommended accessories

Other models and accessories → www.sick.com/GLS100

	Brief description	Type	part no.
Mounting systems			
	Description: Adapter plate for easy mounting of the GLS1 with existing hole pattern Material: Steel Details: Steel, zinc coated Items supplied: Adapter plate, screw set for adapter plate and GLS1 Suitable for: GLS100	GLS100 adapter plate	4111248
	Description: Adapter bracket for easy mounting of the GLS1 with existing hole pattern Material: Metal Details: Steel, zinc coated Items supplied: Adapter bracket, screw set for adapter bracket and GLS1 Suitable for: GLS100	GLS100 adapter bracket	4111249
	Description: Plate N04 for universal clamp, steel Material: Steel, zinc diecast Details: Zinc plated steel (sheet), Zinc die cast (clamping bracket) Items supplied: Universal clamp (5322626), mounting hardware Usable for: Dx50, UC12, W12G, W14-2, W18-2, W23, W280, W11-2, W12-3, W12-2 Laser, W12 Teflon, W16, W18-3, W23-2, W24-2, W24-2 Ex, W26, W27-2 Laser, W27-2, W27-3, W34, W260, W280-2, PowerProx, Reflex Array, W11G-2, W18-3 Ex, W27-3 Ex	BEF-KHS-N04	2051610
Codes			
	Description: Multi code label with 16 data matrix codes for localizing AGVs, 400 codes in set: X0 / Y0 to X19 / Y19, self-adhesive, recommended for GLS100	DATAMATRIX MULTI-CODE LABEL SET2 X0/Y0-X19/Y19	4111694
	Product family: Positioning codes Description: Multi code label with 16 Data Matrix codes for localizing AGVs, 100 codes in set: X0 / Y0 to X9 / Y9, self-adhesive, recommended for GLS100	DATAMATRIX MULTI-CODE LABEL SET1 X0/Y0-X9/Y9	4111693
	Product family: Positioning codes Description: Code tape with 2D Data Matrix codes for positioning using GLS100, code size 12 mm x 12 mm, self-adhesive, recommended for GLS100	MULTICODE-TAPE 0-40	5345479
	Strich		On request
connectors and cables			
 	Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology	STE-1205-G	6022083
	Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PVC Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with chemicals	YF2A15-050VB5XLEAX	2096240

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:

Contacts and other locations –www.sick.com