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	100 mm fixed focus
Light source	Internal lighting, 2 x LED, Visible, Amber, 590 nm, ± 80 nm
LED class	Free group (IEC 62471:2006-07, EN 62471:2008-09)
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)

[1] ± 30 mm.
[2] Using the SICK MultiCode label.

Mechanics/electronics

Connection type	1 x M12, 5-pin male connector [1]
Supply voltage	10.8 V ... 30 V
Power consumption	< 3 W
Housing	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

[1] For longer connecting cables, the use of a shielded cable is recommended.

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

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

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

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

Connection/Pin assignment

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

Dimensional drawing (Dimensions in mm (inch))
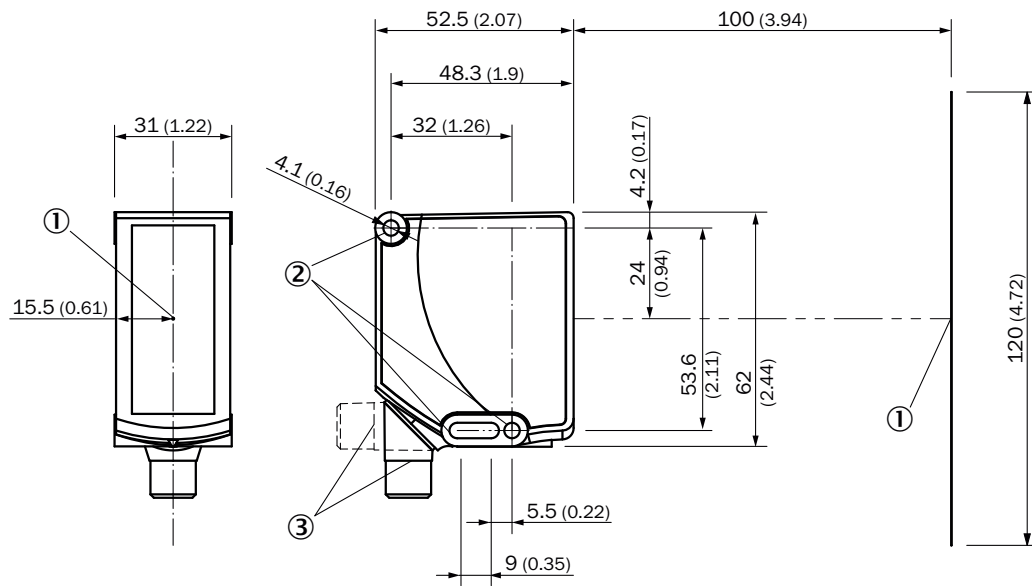
① Optical axis
② Mounting hole, Ø 4.1 mm
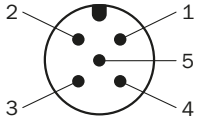③ Connector M12 (rotatable up to 90°)
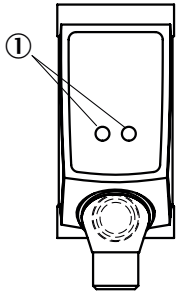
Field of view
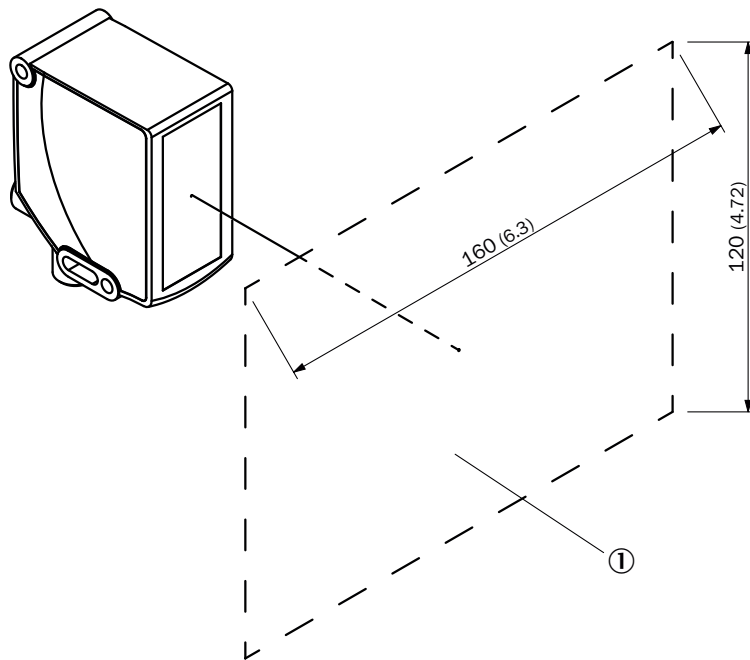
① Field of view (W x H)

Connection type

See table: **Connection/pin assignment**

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

Adjustment possible

① Status indicators

Recommended accessories

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

	Brief description	Type	Part no.
Connection modules			
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A	IOLA2US-01101 (SiLink2 Master)	1061790
Codes			
	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
	Multi code label with 16 data matrix codes for localizing AGVs, 400 codes in set: X0 / Y0 to X9 / Y9, self-adhesive, recommended for GLS100	DATAMATRIX MULTI-CODE LABEL SET2 X0/Y0-X19/Y19	4111694
	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
Plug connectors and cables			
	• **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:** Zones with chemicals	YF2A15-050VB5XLEAX	2096240
	• **Connection type head A:** Female connector, M12, 5-pin, straight • **Description:** Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm ... 6 mm Head B: - • **Connection systems:** Screw-type terminals • **Permitted cross-section:** ≤ 0.75 mm²	DOS-1205-G	6009719

Brief description	Type	Part no.
Terminal and alignment brackets		
GLS100 adapter bracket	GLS100 adapter bracket	4111249
GLS100 adapter plate	GLS100 adapter plate	4111248

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