



CLV601-OD200

CLV60x

FIXED MOUNT BARCODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
CLV601-0D200	1079204

Other models and accessories → www.sick.com/CLV60x



Detailed technical data

Features

Connection type	Cable						
Reading field	Front						
Sensor type	Line scanner						
Optical focus	Fixed focus (30 mm)						
Sensor	CMOS line sensor						
Sensor resolution	2,048 px						
LED class	Risk group 0 (IEC 62471:2006-07, EN 62471:2008-09)						
Light source	Light spot, LED, Visible, Red, 626 nm						
Aperture angle	≤ 71°						
Reading distance	15 mm ... 70 mm ¹⁾						
Scanning frequency	750 Hz						
Reading angle	<table border="0"> <tr> <td>Tilt α</td> <td>± 5° (with code resolution ≥ 0.125 mm) ± 10° (with code resolution ≥ 0.15 mm) ± 15° (with code resolution ≥ 0.2 mm) ± 25° (with code resolution ≥ 0.35 mm)</td> </tr> <tr> <td>Pitch β</td> <td>± 6° (with code resolution ≥ 0.2 mm) ± 15° (with code resolution ≥ 0.5 mm)</td> </tr> <tr> <td>Skew γ</td> <td>± 20° (with code resolution ≥ 0.2 mm) ± 30° (with code resolution ≥ 0.5 mm)</td> </tr> </table>	Tilt α	± 5° (with code resolution ≥ 0.125 mm) ± 10° (with code resolution ≥ 0.15 mm) ± 15° (with code resolution ≥ 0.2 mm) ± 25° (with code resolution ≥ 0.35 mm)	Pitch β	± 6° (with code resolution ≥ 0.2 mm) ± 15° (with code resolution ≥ 0.5 mm)	Skew γ	± 20° (with code resolution ≥ 0.2 mm) ± 30° (with code resolution ≥ 0.5 mm)
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Code resolution	0.125 mm ... 0.5 mm						

¹⁾ For details see reading field diagram.

Mechanics/electronics

Connection type	1 x 9-pin D-sub male connector (2 m)
Supply voltage	5 V DC, ± 10 %

Power consumption	Typ. 1 W
Housing material	Zinc diecast
Housing color	Light blue (RAL 5012), black (RAL 9005)
Window material	Plastic
Enclosure rating	IP40 (DIN 40 050)
Protection class	III (VDE 0106/IEC 1010-1)
Weight	230 g, with connecting cable
Dimensions (L x W x H)	55 mm x 52 mm x 20 mm
MTBF	100,000 h

Performance

Readable code structures	1D codes
Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, UPC / GTIN / EAN, Interleaved 2 of 5
Code printing process	Label (printed codes)
Print ratio	2:1 ... 3:1
No. of codes per scan	1 ... 1
No. of codes per reading interval	1 ... 15 (auto-discriminating)
No. of characters per reading interval	450
Number of characters per code	≤ 30
No. of multiple readings	1 ... 100

Interfaces

Serial	✓, RS-232
Function	Data interface (read result output), Service interface
Data transmission rate	2,400 Baud ... 250 kBaud, AUX: 57.6 kBaud
Digital inputs	1 ("Input 1", Vin = max. 30 V)
Digital outputs	2 ("Output 1", "Output 2", Iout = max. 50 mA)
Reading pulse	Start: Digital input, free, command, auto pulse, stop: Digital input, free, command, timer, Good Read
Optical indicators	1 RGB LED (multifunctional)
Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Configuration software	SOPAS ET

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-3/A1:2011-03 / 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 ... +50 °C
Storage temperature	-20 °C ... +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	5,000 lx, on barcode
Bar code print contrast (PCS)	≥ 60 %

General notes

Items supplied	Single scanner, Safety Notes
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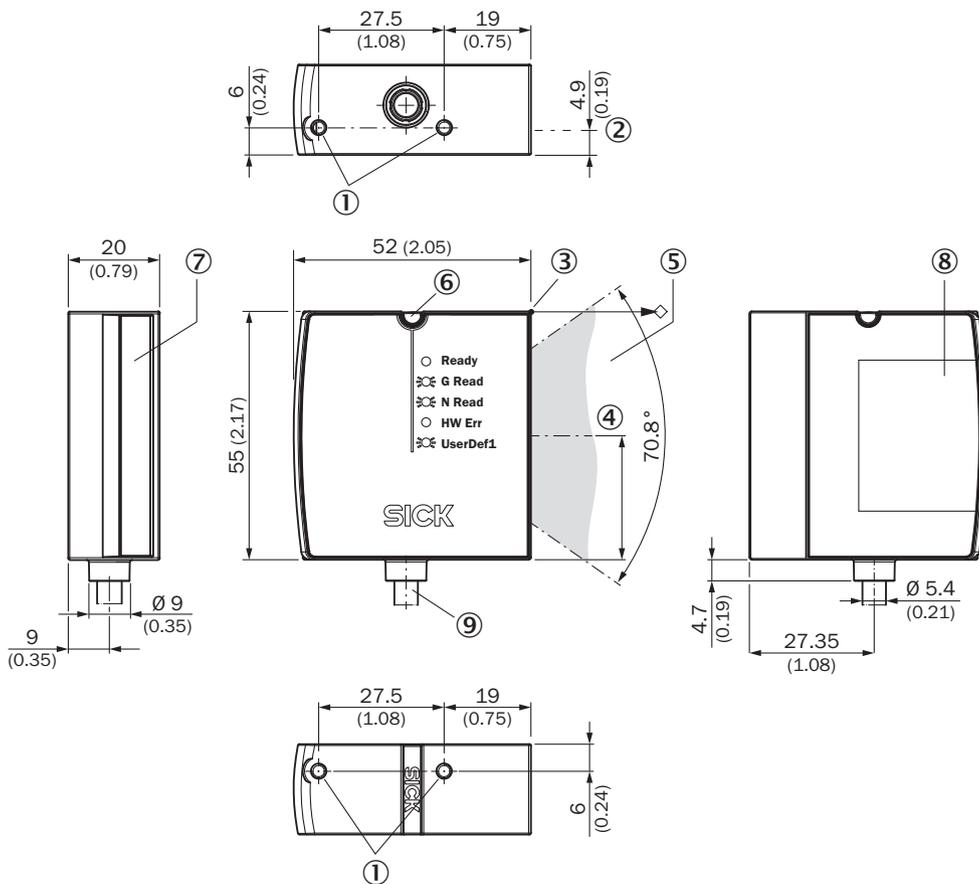
Classifications

ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

Certificates

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

Dimensional drawing CLV60x, front

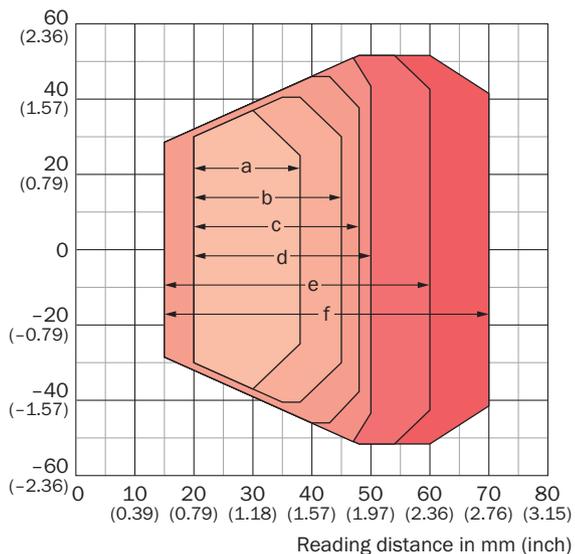


Dimensions in mm (inch)

- ① Mounting thread M3 x 5 mm
- ② Optical axis, reading window
- ③ Reading distance reference point
- ④ Reading field axis center
- ⑤ Reading field
- ⑥ status LED
- ⑦ Reading field
- ⑧ type label
- ⑨ Connection cable

Reading field diagram

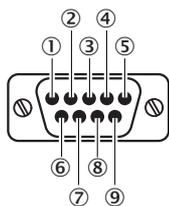
Reading field height in mm (inch)



Resolution

- a: 0.125 mm (4.9 mil)
- b: 0.15 mm (5.9 mil)
- c: 0.2 mm (7.9 mil)
- d: 0.25 mm (9.8 mil)
- e: 0.35 mm (13.8 mil)
- f: 0.5 mm (19.7 mil)

Connection type



- ① In₁
- ② RxD (HOST)
- ③ TxD (HOST)
- ④ OUT1
- ⑤ GND
- ⑥ OUT2
- ⑦ RxD
- ⑧ TxD
- ⑨ +5 V

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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.”

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