

Technical data sheet Stationary bar code reader

Part no.: 50132831

BCL 608i OM 100 H



Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- Part number code
- Notes
- Accessories











Technical data



BCL 600i
Alignment mode
AutoConfig
AutoControl
AutoReflAct
Code fragment technology
Heating
LED indicator
Reference code comparison
42.4 years
2/5 Interleaved
Codabar
Code 128
Code 39
Code 93
EAN 128
EAN 8/13
EAN Addendum
GS1 Databar Expanded
GS1 Databar Limited
GS1 Databar Omnidirectional
UPC
1,000 scans/s
64 Piece(s)
400 900 mm
Laser, Blue
405 nm
2, IEC/EN 60825-1:2014
Continuous
60 %
0.25 0.35 mm
Oscillating-mirror scanner
Via rotating polygon wheel + stepping motor with mirror
Zero position at side at angle less tha 90°
10 Hz
40 °
Polarity reversal protection
40 001/455
10 30 V, DC

Inputs/outputs selectable Output current, max. 60 mA Number of inputs/outputs selectable 4 Piece(s) Voltage type, outputs DC Switching voltage, outputs Typ. Ug / 0 V Voltage type, inputs DC Switching voltage, inputs Typ. Ug / 0 V Input current, max. 8 mA Interface Type Ethernet Ethernet Architecture Client Server Address assignment DHCP Manual address assignment Transmission speed 10 Mbit/s 100 Mbit/s Function Process Switch functionality Integrated Transmission protocol TCP/IP Service interface Type USB USB Function Configuration via software Service Connection Type of connection USB Designation on device SERVICE Connector type USB 2.0 Standard-A Connection Signal IN Signal OUT Type of connection Connector Designation on device SW IN/OUT Thread size M12 Type Female Material Metal No. of pins 5-pin Encoding Connection 3	
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Material Metal No. of pins 5 -pin Encoding A-coded Connection 3	
No. of pins 5 -pin Encoding A-coded Connection 3	
Encoding A-coded Connection 3	
Connection 3	
Function PWR / SW IN / OUT	
Type of connection Connector	
Designation on device PWR	
Thread size M12	
Type Male	
Material Metal	
No. of pins 5 -pin	
Encoding A-coded	
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Technical data



Connection 4	
Function	BUS IN
Type of connection	Connector
Designation on device	HOST / BUS IN
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded
Connection 5	
Function	BUS OUT
Type of connection	Connector
Designation on device	BUS OUT
Thread size	M12
Туре	Female
Type No. of pins	Female 4 -pin
No. of pins	
No. of pins	
No. of pins Mechanical data	
No. of pins Mechanical data Design	4 -pin
No. of pins Mechanical data Design Dimension (W x H x L)	4 -pin Cubic
No. of pins Mechanical data Design Dimension (W x H x L) Housing material	4 -pin Cubic 173 mm x 84 mm x 147 mm
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing	4 -pin Cubic 173 mm x 84 mm x 147 mm Metal
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material	4 -pin Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight	4 -pin Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum Glass
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight	Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum Glass 1,500 g
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum Glass 1,500 g Red
••	Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum Glass 1,500 g Red Silver
No. of pins Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Cubic 173 mm x 84 mm x 147 mm Metal Diecast aluminum Glass 1,500 g Red Silver Dovetail grooves

Operation and display

Type of display	LED
	Monochromatic graphical display, 128x64 pixel, with background lighting
Number of LEDs	2 Piece(s)
Type of configuration	Via web browser
Operational controls	Button(s)
	Via service interface

Environmental data

Ambient temperature, operation	-35 40 °C
Ambient temperature, storage	-20 70 °C
Relative humidity (non-condensing)	90 %
Extraneous light tolerance on the bar code, max.	2,000 lx

Certifications

Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	EN 61000-4-2, -3, -4, -6
	EN 61000-6-2
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC 60068-2-29, test Eb
Test procedure for vibration in accordance with standard	IEC 60068-2-6, test Fc

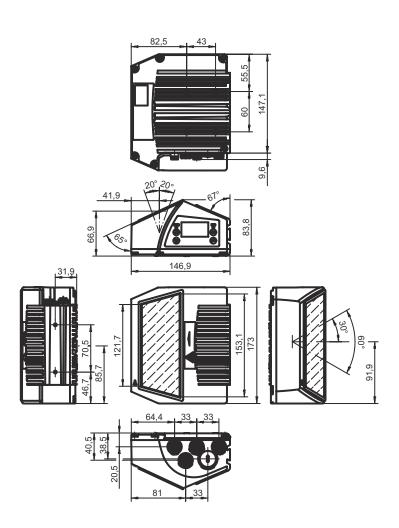
Classification

Customs tariff number	84719000
ECLASS 5.1.4	27280102
ECLASS 8.0	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ECLASS 13.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550

Dimensioned drawings

Leuze

All dimensions in millimeters



Electrical connection

Connection 1	SERVICE

Function	Service interface
Type of connection	USB
Connector type	USB 2.0 Standard-A

Pin	Pin assignment
1	+5 V DC
2	DATA-
3	DATA+
4	GND

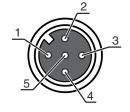
Electrical connection

Encoding



Connection 2	SW IN/OUT
Function	Signal IN
	Signal OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

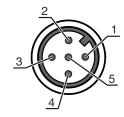
Pin	Pin assignment
1	VOUT
2	SWIO 1
3	GND
4	SWIO 2
5	FE



Connection 3	PWR
Function	PWR / SW IN / OUT
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin

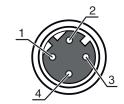
A-coded

Pin	Pin assignment
1	VIN
2	SWIO 3
3	GND
4	SWIO 4
5	FE



Connection 4	HOST / BUS IN
Function	BUS IN
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin	Pin assignment
1	TD+
2	RD+
3	TD-
4	RD-

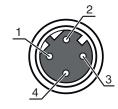


Electrical connection



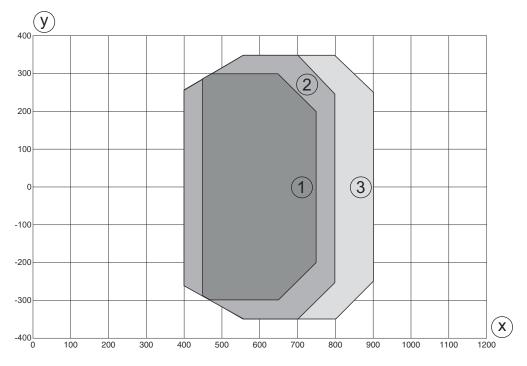
Connection 5	BUS OUT	
Function	BUS OUT	
Type of connection	Connector	
Thread size	M12	
Туре	Female	
Material	Metal	
No. of pins	4 -pin	
Encoding	D-coded	

Pin	Pin assignment
1	TD+
2	RD+
3	TD-
4	RD-



Diagrams

Reading field curve - Medium Density

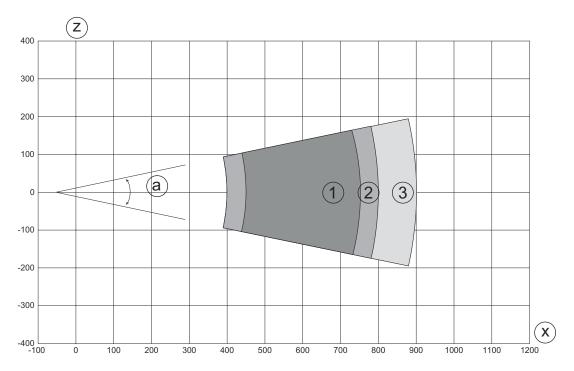


- y Reading field width [mm]
- x Reading field distance [mm]
- 1 Module = 0.25 mm: 450 mm 750 mm (300 mm depth of field)
- 2 Module = 0.3 mm: 400 mm 800 mm (400 mm depth of field)
- 3 Module = 0.35 mm: 400 mm 900 mm (500 mm depth of field)

Diagrams

Leuze

Reading field curve - Medium Density



- Reading field height [mm] Z
- Reading field distance [mm]
- Module = 0.25 mm: 450 mm 750 mm (300 mm depth of field)
- Module = 0.3 mm: 400 mm 800 mm (400 mm depth of field) 2
- Module = 0.35 mm: 400 mm 900 mm (500 mm depth of field)

Operation and display

LED	Display	Meaning	
1 PWR	Off	No supply voltage	
	Green, flashing	Initialization	
	Green, continuous light	Device OK	
	Orange, flashing	Service operation	
	Orange, continuous light	Reset	
	Red, flashing	Device OK, warning set	
	Red, continuous light	Device error	
2 NET	Off	No supply voltage	
	Green, flashing	BUS initialization	
	Green, continuous light	Bus operation ok	
	Orange, flashing	Service mode	
	Orange, continuous light	Reset	
	Red, flashing	Communication error	
	Red, continuous light	Network error	

Part number code



Part designation: BCL XXXX YYZ AAA B

BCL	Operating principle BCL: bar code reader
XXXX	Series/interface (integrated fieldbus technology) 600i: RS 232/RS 422/ RS 485 (multiNet master) 601i: RS 485 (multiNet slave) 604i: PROFIBUS DP 608i: Ethernet 648i: PROFINET 658i: EtherNet/IP
YY	Scanning principle S: line scanner (single line) O: oscillating-mirror scanner (oscillating mirror)
Z	Optics N: High Density (close) M: Medium Density (medium distance) F: Low Density (remote) L: Long Range (very large distances)
AAA	Beam exit 100: lateral 102: front
ВВ	Special equipment H: With heating

Note



A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!



- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- by Only use the product in accordance with its intended use.

ATTENTION! LASER RADIATION - CLASS 2 LASER PRODUCT



Do not stare into beam!

The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of laser class 2 as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to Laser Notice No. 56 from May 08, 2019.

- 🦫 Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time period, there is a risk of injury to the retina.
- b Do not point the laser beam of the device at persons!
- 🖖 Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- 🔖 CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- Observe the applicable statutory and local laser protection regulations.
- $\$ The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Notes



NOTE



Affix laser information and warning signs!

Laser information and warning signs are affixed to the device. In addition, self-adhesive laser information and warning signs (stick-on labels) are supplied in several languages.

- \$ Affix the laser information sheet to the device in the language appropriate for the place of use. When using the device in the US, use the stick-on label with the "Complies with 21 CFR 1040.10" note.
- Affix the laser information and warning signs near the device if no signs are attached to the device (e.g. because the device is too small) or if the attached laser information and warning signs are concealed due to the installation position.
- Shifts the laser information and warning signs so that they are legible without exposing the reader to the laser radiation of the device or other optical radiation.

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
 0.0	50107726	KB USB A - USB A	Interconnection cable	Suitable for interface: USB Connection 1: USB Connection 2: USB Shielded: Yes Cable length: 1,800 mm Sheathing material: PVC
	50137078	KSS ET-M12-4A- M12-4A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50135081	KSS ET-M12-4A- RJ45-A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Accessories



Mounting technology - Other

Part no.	Designation	Article	Description
50111224	BT 59	Mounting bracket	Fastening, at system: Groove mounting Mounting bracket, at device: Clampable Material: Metal Shock absorber: No

Services

	Part no.	Designation	Article	Description
₽	S981020	CS30-E-212	Hourly rate	Details: Compilation of the application data, selection and suggestion of suitable sensor system, drawing prepared as assembly sketch. Conditions: Completed questionnaire or project specifications with a description of the application have been provided. Restrictions: Travel and accommodation charged separately and according to expenditure.
	S981014	CS30-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.
	S981019	CS30-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
 	S981021	C\$30-V-212	Hourly rate	Details: REA evaluation with creation of a test report, evaluation of the code quality. Conditions: Original bar codes to be provided by the client.

Note



🖔 A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.