

Technical data sheet Stationary bar code reader

Part no.: 50116376

BCL 308i OM 100 D H



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Technical data



mode g bl ct nent technology	Type Ethernet Architecture Address assignment Transmission speed Function Switch functionality	Client Server DHCP Manual address assignment 10 Mbit/s 100 Mbit/s
g ol ot nent technology tor	Architecture Address assignment Transmission speed Function	Server DHCP Manual address assignment 10 Mbit/s
g ol ot nent technology tor	Address assignment Transmission speed Function	Server DHCP Manual address assignment 10 Mbit/s
g ol ot nent technology tor	Transmission speed	DHCP Manual address assignment 10 Mbit/s
g ol ot nent technology tor	Transmission speed	Manual address assignment 10 Mbit/s
g ol ot nent technology tor	Function	10 Mbit/s
g ol ot nent technology tor	Function	
ot ment technology tor		TOO IVIDIUS
nent technology		Process
tor	Owitch functionality	Integrated
	Transmission protocol	TCP/IP , UDP
	Transmission protocol	101711 , 021
	Service interface	
code comparison	Туре	USB 2.0
	uan	
	USB Function	Configuration via software
	FullCuoli	Service
		Service
aved	Connection	
	Number of connections	1 Piece(s)
	Connection 1	
	Function	BUS IN
		Connection to device
par Expanded		Data interface
par Limited		PWR / SW IN / OUT
par Omnidirectional	Time of connection	Service interface Plug connector, It is essential to use a
ıs/s	Type of connection	connection unit when commissioning the device.
)	No. of pins	32 -pin
	Туре	Male
	Mechanical data	
mm		
	Design	Cubic
	Dimension (W x H x L)	125 mm x 58 mm x 110 mm
60825-1:2014	Housing material	Metal
3	Metal housing Lens cover material	Diecast aluminum Glass
mm	Net weight	580 g
-mirror scanner	Housing color	Red
g polygon wheel + stepping mirror	riousing color	Silver
on at side at angle less than	Type of fastening	Dovetail grooves
		Fastening on back
		Via optional mounting device
	Operation and display	
	Type of display	LED
ersal protection		Monochromatic graphic display, 128 x 32 pixels
	Number of LEDs	2 Piece(s)
•	Type of configuration	Via web browser
	Environmental data	
		05 40 00
	Ambient temperature eneration	-35 40 °C
	Ambient temperature, operation Ambient temperature, storage	-35 40 °C -20 70 °C
	/, DC	Type of configuration Environmental data

Technical data



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
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

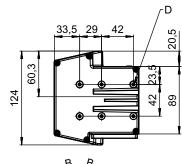
Classification

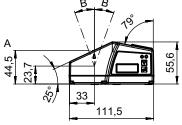
84719000
27280102
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Dimensioned drawings

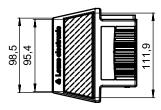
Leuze

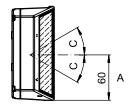
All dimensions in millimeters





- A Optical axis
- B Swivel angle of the laser beam: $\pm 20^{\circ}$
- C Deflection angle of the laser beam: \pm 30 $^{\circ}$
- D M4 thread (5 mm deep)





Electrical connection

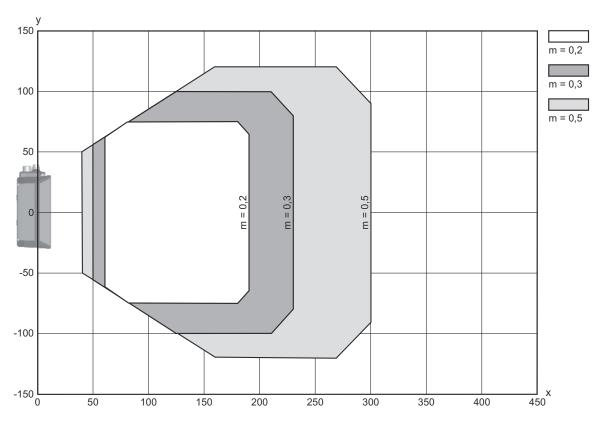
Connection 1

Function	BUS IN
	Connection to device
	Data interface
	PWR / SW IN / OUT
	Service interface
Type of connection	Plug connector
Type of connection	It is essential to use a connection unit when commissioning the device.
No. of pins	32 -pin
Туре	Male

Diagrams



Reading field curve



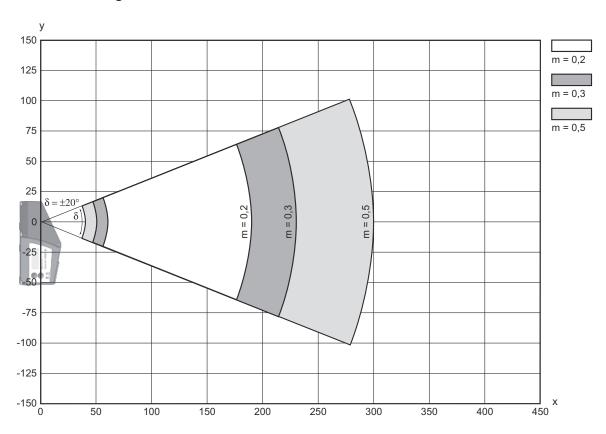
- x Reading field distance [mm]
- y Reading field width [mm]

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Diagrams



Lateral reading field curve



Operation and display

LED	Display	Meaning
1 PWR	Green, flashing	Device ok, initialization phase
	Green, continuous light	Device OK
	Green, briefly off - on	Reading successful
	Green, briefly off - briefly red - on	Reading not successful
	Orange, continuous light	Service mode
	Red, flashing	Device OK, warning set
	Red, continuous light	Error, device error
2 BUS	Green, flashing	Initialization
	Green, continuous light	Bus operation ok
	Red, flashing	Communication error
	Red, continuous light	Bus error

Part number code



Part designation: BCL XXXX YYZ AAA BB CCCC

BCL	Operating principle BCL: bar code reader
xxxx	Series/interface (integrated fieldbus technology) 300i: RS 232 / RS 422 (stand-alone) 301i: RS 485 (multiNet slave) 304i: PROFIBUS DP 308i: EtherNet TCP/IP, UDP 338i: EtherCAT 348i: PROFINET RT 358i: EtherNet/IP
YY	Scanning principle S: line scanner (single line) R1: line scanner (raster) 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) J: ink-jet (depending on the application)
AAA	Beam exit 100: lateral 102: front
ВВ	Special equipment D: With display H: With heating DH: optionally with display and heating P: plastic exit window
CCCC	Functions F007: optimized process data structure F099: OPC-UA function

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.
- Nonly use the product in accordance with its intended use.

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ATTENTION! LASER RADIATION - CLASS 1 LASER PRODUCT



The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of **laser class 1** and complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

- 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.

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
W	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50117011	KB USB A - USB miniB	Service line	Suitable for interface: USB Connection 1: USB Connection 2: USB Shielded: Yes Cable length: 1,500 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

Connection technology - Connection boxes

	Part no.	Designation	Article	Description
6	50131255 *	ME 308 103	Connection unit	Suitable for: BCL 308i Interface: Ethernet Number of connections: 4 Piece(s) Connection: Cable with connector, M12, 900 mm
6	50131254 *	ME 308 104	Connection unit	Suitable for: BCL 308i Interface: Ethernet Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 900 mm

Accessories



	Part no.	Designation	Article	Description
	50116466 *	MK 308	Connection unit	Suitable for: BCL 308i Interface: Ethernet Number of connections: 4 Piece(s) Connection: Terminal
a c	50114823 *	MS 308	Connection unit	Suitable for: BCL 308i Interface: Ethernet Number of connections: 4 Piece(s) Connection: Connector, M12

^{*} Necessary accessories, please order separately

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50121433	BT 300 W	Mounting device	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Metal

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50121435	BT 56 - 1	Mounting device	Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N·m

Mounting technology - Other

Part no.	Designation	Article	Description
50124941	BTU 0300M-W	Mounting device	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, Groove mounting, Suited for M4 screws Material: Metal Shock absorber: No

Reflective tapes for standard applications

Part no.	Designation	Article	Description
50106119	REF 4-A-100x100	Reflective tape	Design: Rectangular Reflective surface: 100 mm x 100 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive

The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com We reserve the rig In der Braike 1, 73277 Owen Phone: +49 7021 573-0 • Fax: +49 7021 573-199 eng • 2023-01-31

We reserve the right to make technical changes

Accessories



Services

	Part no.	Designation	Article	Description
<u>В</u>	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	CS30-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.