

# **Technical data sheet** Stationary bar code reader Part no.: 50116405 BCL 308i SM 100



The Sensor People In der Braike 1, 73277 Owen

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We reserve the right to make technical changes eng • 2020-06-17

#### **Technical data**

#### Basic data

Series	BCL 300i
Functions	
Functions	Alignment mode
	AutoConfig
	AutoControl
	AutoReflAct
	Code fragment technology
	LED indicator
	Reference code comparison
Characteristic noremotors	
Characteristic parameters	
MTTF	110 years
Read data	
Code types, readable	2/5 Interleaved
	Codabar
	Code 128
	Code 39
	Code 93
	EAN 8/13
	GS1 Databar Expanded
	GS1 Databar Limited
	GS1 Databar Omnidirectional
	GS1 Databar Omnidirectional UPC
Scanning rate, typical	

#### **Optical data**

optioul data			
Reading distance	30 290 mm		
Light source	Laser, Red		
Laser light wavelength	655 nm		
Laser class	2, IEC/EN 60825-1:2007		
Transmitted-signal shape	Continuous		
Usable opening angle (reading field opening)	60 °		
Modulus size	0.2 0.5 mm		
Reading method	Line scanner with deflecting mirror		
Beam deflection	By means of rotating polygon mirror wheel + deflecting mirror		
Light beam exit	Lateral with deflecting mirror		
Electrical data			
Protective circuit	Polarity reversal protection		
Performance data			
Supply voltage U <sub>R</sub>	18 30 V, DC		
Power consumption, max.	4.5 W		
r ower consumption, max.	1.0 11		
Inputs/outputs selectable			
Output current, max.	60 mA		
Number of inputs/outputs selectabl	e 2 Piece(s)		
Input current, max.	8 mA		
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Interface			

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ype USB Function Configuration via software Service Connection Connections 1 Piece(s) Connection 1 Function 1 Function 1 Function 1 Function 2 Function 1 Function 1 Function 1 Function 2 Function 1 Function 2 Function 1 Function 1 Function 1 Function 1 Function 1 Function 2 Function 2	Architecture	Client	
Manual address assignmentTransmission speed10 Mbit/sFunctionProcessSwitch functionalityIntegratedTransmission protocolTCP/IP, UDPService interfaceUSBUSBUSBFunctionConfiguration via softwareServiceServiceConnection1 Piece(s)Connection 1BUS INFunctionBUS INFunctionServiceConnection 1PWR / SW IN/OUTServiceData interfacePWR / SW IN/OUTServiceService interfacePWR / SW IN/OUTServiceData interfacePWR / SW IN/OUTService interfaceType of connectionPlug connectorNo. of pins32 -pinTypeMaleMaleMaleMaleService interfacePurpeService interfaceType of connectionPlug connectorNo. of pins32 -pinTypeMaleMaleService interfaceMaleService interfacePurpeBlackRedSol gService interfaceServiceService interfaceServiceServiceService interfaceServiceService interfaceServiceService interfaceServiceService interfaceServiceService interfaceServiceService interfaceServiceService interfaceServiceService interfaceService<		Server	
Transmission speed       10 Mbit/s         Function       Process         Switch functionality       Integrated         Transmission protocol       TCP/IP, UDP         Service interface       USB         USB       Configuration via software         Function       Configuration via software         Service       Service         Connection       1 Piece(s)         Connection 1       BUS IN         Function       BUS IN         BUS OUT       Connection to device         Data interface       PWR / SW IN/OUT         Service interface       PWR / SW IN/OU	Address assignment	DHCP	
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Ambient temperature, storage -20 70 °C	Environmental data		
		0 40 °C	
	Ambient temperature, operation		

Туре

Ethernet

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## **Technical data**

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#### Certifications

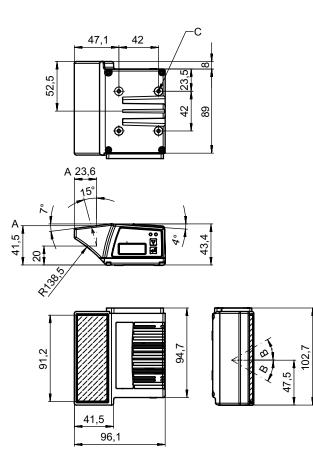
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	EN 61000-4-2, -3, -4, -6
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC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

#### Classification

84719000
27280102
27280102
EC002550
EC002550

## **Dimensioned drawings**

All dimensions in millimeters



- А Optical axis
- В Deflection angle of the laser beam: ± 30°
- С M4 thread (5 deep)

## **Electrical connection**

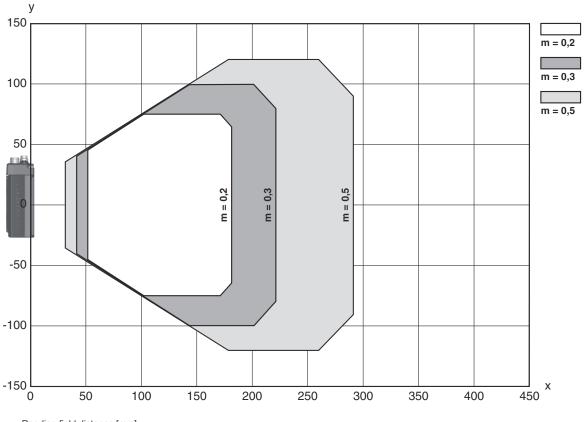
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#### **Connection 1**

Function	BUS IN
	BUS OUT
	Connection to device
	Data interface
	PWR / SW IN/OUT
	Service interface
Type of connection	Plug connector
No. of pins	32 -pin
Туре	Male
Туре	Male

#### Diagrams

#### Reading field curve



x Reading field distance [mm]

y Reading field width [mm]

# **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

## **Operation and display**

# LED Display Meaning 2 BUS Green, flashing Initialization Green, continuous light Bus operation ok Bus operation ok Red, flashing Communication error 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 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
Not	e
K 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.
∜ Only use the product in accordance with its intended use.

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#### Notes

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WARNING! LASER RADIATION – CLASS 2 LASER PRODUCT
Do not stare into beam! The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) 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. 50" from June 24, 2007.
Solution between 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.
✤ Do not point the laser beam of the device at persons!
b 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.
<ul> <li>The device must not be tampered with and must not be changed in any way.</li> <li>There are no user-serviceable parts inside the device.</li> <li>Repairs must only be performed by Leuze electronic GmbH + Co. KG.</li> </ul>

#### 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.
- the Affix 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 Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

#### Accessories

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## 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: 1,000 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

## 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
<b>S</b>	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

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#### Accessories

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## 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

#### Services

	Part no.	Designation	Article	Description
D-	S981020	CS30-E-212	Hourly rate for "Configuration"	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 for "Bar code qualification"	Details: REA evaluation with creation of a test report, evaluation of the code quality. Conditions: Original bar codes to be provided by the client.



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