



the sensor people





Part no.: 50122772 BCL 558i OL 100 H Stationary bar code reader









EtherNet√IP

Figure can vary

Contents

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



Technical data

Special design		
Special design Functions Functions Functions Functions Alignment mode AutoComfig Au	Basic data	
	Series	BCL 500i
Punctions	Special design	
Functions Alignment mode AutoControl AutoControl AutoControl AutoControl AutoControl AutoControl AutoControl AutoControl AutoControl AutoRelflact Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 42.4 years 2/5 Interleaved Code byses, readable 2/5 Interleaved Code bar Code 128 Code 1	Special design	Heating
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Read data Code types, readable Code 129 Code 39 Code 40 Code 4		Reference code comparison
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Protective circuit Polarity reversal protection Performance data Supply voltage U _B 10 30 V , DC	Light beam exit	Zero position at side at angle less than 90°
Protective circuit Polarity reversal protection Performance data Supply voltage U _B 10 30 V , DC		
Performance data Supply voltage UB 10 30 V , DC		Delegity and another time
Supply voltage U_B 10 30 V , DC		Polarity reversal protection
		40 00 / 00
Power consumption, max. 11 W		
	Power consumption, max.	11 W



Inputs/outputs selectable		
Output current, max.	100 mA	
Number of inputs/outputs selectable	4 Piece(s)	
Voltage type, outputs	DC	
Switching voltage, outputs	Typ. U _B / 0 V	
Voltage type, inputs	DC	
Switching voltage, inputs	Typ. U _B / 0 V	
Input current, max.	8 mA	

terface		
уре	EtherNet IP	
EtherNet IP		
Function	Process	
Address assignment	DHCP Manual address assignment	
Switch functionality	Integrated	
Transmission speed	10 Mbit/s 100 Mbit/s	

Service interface	
ype	USB
USB	
Function	Configuration via software Service

Connection	
Number of connections	5 Piece(s)
Connection 1	
Type of connection	USB
Designation on device	SERVICE
Function	Service interface
Connector type	USB 2.0 Standard-A
Connection 2	
Type of connection	Connector
Designation on device	SW IN/OUT
Function	Signal OUT
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded



Connection 3	
Type of connection	Connector
Designation on device	PWR
Function	Signal IN Signal OUT Voltage supply
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
Connection 4	
Type of connection	Connector
Designation on device	HOST / BUS IN
Function	BUS IN
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded
Connection 5	
Type of connection	Connector
Designation on device	BUS OUT
Function	BUS OUT
Thread size	M12
Туре	Female
No. of pins	4 -pin
echanical data	
esign	Cubic
imension (W x H x L)	173 mm x 84 mm x 147 mm
ousing material	Metal , Aluminum
ens cover material	Glass
et weight	1,500 g
ousing color	Black, RAL 9005 Red, RAL 3000
/pe of fastening	Dovetail grooves Mounting thread Via optional mounting device
peration and display	
/pe of display	LED Monochromatic graphical display, 128x64 pixel, with background lighting
umber of LEDs	2 Piece(s)
/pe of configuration	Via web browser
perational controls	Button(s)
nvironmental data	
mbient temperature, operation	0 40 °C
mbient temperature, storage	-20 70 °C
elative humidity (non-condensing)	90 %



Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 55022 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

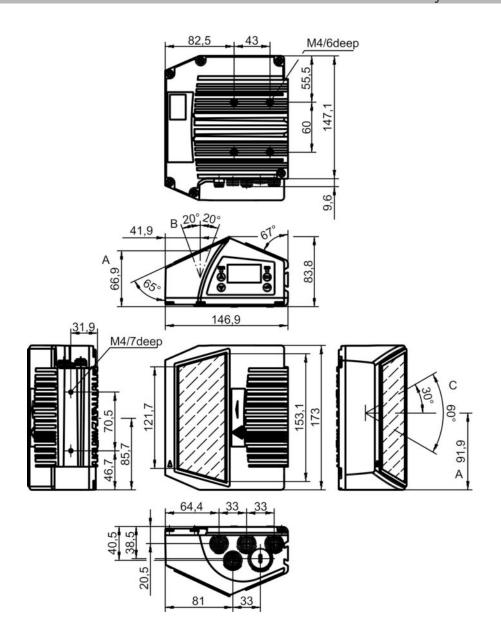
2,000 lx

Classification	
Customs tariff number	84719000
eCl@ss 8.0	27280102
eCl@ss 9.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550

Dimensioned drawings

Extraneous light tolerance on the bar code, max.

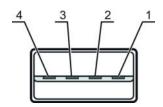
All dimensions in millimeters



Electrical connection

Connection 1	SERVICE
Type of connection	USB
Function	Service interface
Connector type	USB 2.0 Standard-A

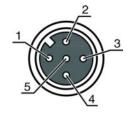
Pin	Pin assignment
1	+5 V DC
2	D Data
3	D+ - Data
4	GND





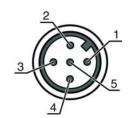
Connection 2	SW IN/OUT
Type of connection	Connector
Function	Signal OUT
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

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



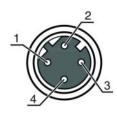
Connection 3	PWR
Type of connection	Connector
Function	Signal IN Signal OUT Voltage supply
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded A-coded

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



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

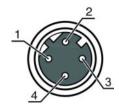
Pin	Pin assignment		
1	TD+		
2	RD+		
3	TD-		
4	RD-		





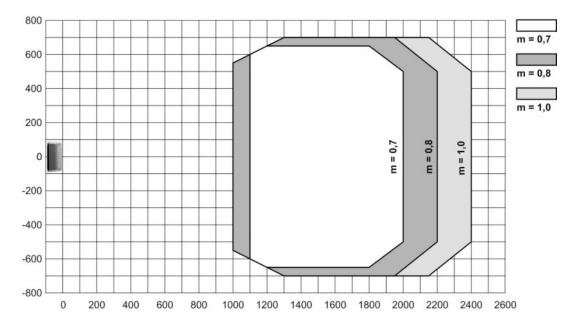
Connection 5	BUS OUT
Type of connection	Connector
Function	BUS OUT
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded D-coded

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



Diagrams

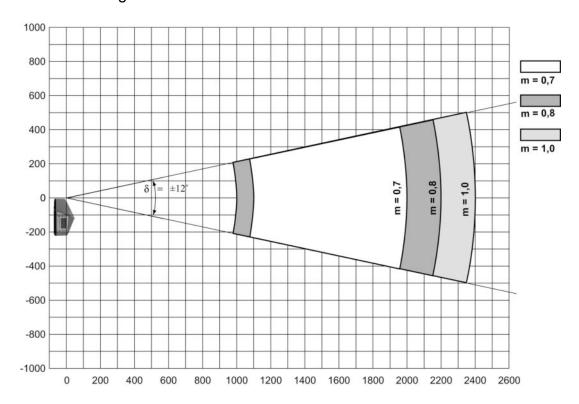
Reading field curve



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



Lateral reading field curve



- Reading field distance [mm] Reading field height [mm]
- х у

Operation and display

LEDs

LED)	Display	Meaning
1	PWR	Off	Device switched off
		Green, flashing	Device ok, initialization phase
		Green, continuous light	Device OK
		Orange, continuous light	Service operation
		Red, flashing	Device OK, warning set
		Red, continuous light	Device error
2	NET	Off	No supply voltage
		Green, flashing	Initialization
		Green, continuous light	Operational readiness
		Red, flashing	Communication error
		Red, continuous light	Network error
		Red/green, flashing alternately	Self test

Part number code

Part designation: BCL XXXX YYZ AAA B

BCL	Operating principle: BCL: bar code reader	
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XXXX	Series/interface (integrated fieldbus technology): 500i: RS 232 / RS 422 / RS 485 (multiNet master) 501i: RS 485 (multiNet slave) 504i: PROFIBUS DP 508i: EtherNet TCP/IP, UDP 548i: PROFINET RT 558i: 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
В	Special equipment: H: with heating

Note

A list with all available device types can be found on the Leuze electronic 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.

WARNING! LASER RADIATION - LASER CLASS 2

Never look directly into the 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.

- 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.
- 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.

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



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.
- 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

Connection technology - Interconnection cables

		Part no.	Designation	Article	Description
0.0	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
		50137077	KSS ET-M12-4A- M12-4A-P7-020	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
	3	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

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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

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.

Note

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