



the sensor people





Part no.: 50120765 BCL 358i R1 M 100 D Stationary bar code reader











Figure can vary

Contents

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



Technical data

Basic data			
Series	BCL 300i		
Functions			
Functions	Alignment mode AutoConfig AutoControl AutoReflAct Code fragment technology LED indicator Reference code comparison		
Observatoriotic more motores			
Characteristic parameters	440		
MTTF	110 years		
Read data	2/E Interlagued		
Code types, readable	2/5 Interleaved Codabar Code 128 Code 39 Code 93 EAN 8/13 GS1 Databar Expanded GS1 Databar Comnidirectional UPC		
Scanning rate, typical	1,000 scans/s		
Bar codes per reading gate, max. number	64 Piece(s)		
Optical data			
Reading distance	30 290 mm		
Light source	Laser, Red		
Laser light wavelength	655 nm		
Laser class			
2400. 01400	2 , IEC/EN 60825-1:2007		
	2 , IEC/EN 60825-1:2007 Continuous		
Transmitted-signal shape			
Transmitted-signal shape	Continuous		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size	Continuous 60 °		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method	Continuous 60 ° 0.2 0.5 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines)	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror		
Transmitted-signal shape Usable opening angle (reading field opening)	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s)		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm 48 mm		
Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm Electrical data Protective circuit	Continuous 60 ° 0.2 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm 48 mm		



Output current, max.	Inputs/outputs selectable			
Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA Interface Type EtherNet IP EtherNet IP Function Process Address assignment Manual address assignment Manual address assignment Manual address assignment Mobile Integrated Transmission speed 10 Mobile 100 Mobi		60 mA		
Interface Type EtherNet IP EtherNet IP EtherNet IP Function Process Address assignment DHCP Manual address assignment Integrated 10 Molt/s Switch functionality Integrated 100 Molt/s Service interface Type USB USB Function Configuration via software Connection Number of connections 1 Piece(s) Connection 1 Function BUS IN BUS OUT Connection 1 Function Pilope Open PWR (SW INVOUT Service Interface PWR (SW INVOUT Service PWR (SW INVOUT Service Interface PWR (SW INVOUT SERVICE PWR (SW INVOUT SERVIC		***		
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EtherNet IP Function Process Address assignment Switch functionality Integrated Transmission speed 10 Mbit's 10 Mbit's 100 Mbit's 10 Mbit's 100 Mbit's 100 Mbit's 100 Mbit's 100 Mbit's 100 Mbit's 10		Cthooklet ID		
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Net weight Housing color Black Red Type of fastening Dovetail grooves Fastening on back Via optional mounting device Operation and display Type of display LED Monochromatic graphic display, 128 x 32 pixels Number of LEDs 2 Piece(s) Type of configuration Via web browser	Housing material	Metal , Diecast aluminum		
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Type of display LED Monochromatic graphic display, 128 x 32 pixels Number of LEDs 2 Piece(s) Type of configuration Via web browser Environmental data	Operation and display			
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Type of configuration Via web browser Environmental data	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
Environmental data	Number of LEDs	2 Piece(s)		
	Type of configuration	Via web browser		
Ambient temperature, operation 0 40 °C	Environmental data			
	Ambient temperature, operation	0 40 °C		



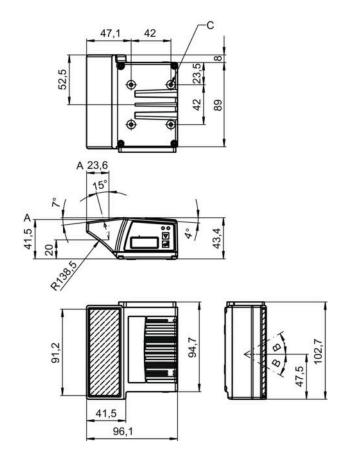
Ambient temperature, storage	-20 70 °C	
Relative humidity (non-condensing)	0 90 %	

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

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

All dimensions in millimeters



A Optical axis



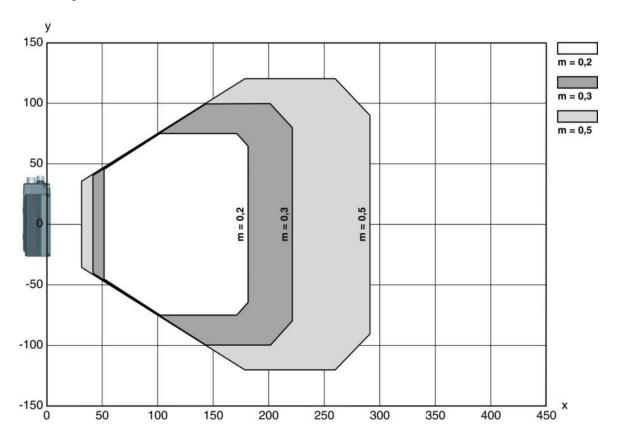
B Deflection angle of the laser beam: \pm 30 $^{\circ}$ C M4 thread (5 deep)

Electrical connection

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	

Diagrams

Reading field curve



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



Operation and display

LEDs

LED	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	NET	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 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				

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.
- · Only use the product in accordance with its intended use.

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.

- 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.

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
5013207	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

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Part no.	Designation	Article	Description
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

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
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

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50121433	BT 300 W	Mounting device	Contains: 4x M4 x 10 screw, 4x position washers, 4x lock washers 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

Reflective tapes for standard applications

Part no.	Designation	Article	Description
50106119	REF 4-A-100x100	·	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.

Note

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