



the sensor people





Part no.: 50120787 BCL 358i SM 102 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 Series	BCL 300i
Series	BCL 3001
Functions	
Functions	Alignment mode AutoConfig
	AutoControl
	AutoReflAct Code fragment technology
	LED indicator
	Reference code comparison
Characteristic parameters	440
MTTF	110 years
Read data	0/5/11
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 UPC
Scanning rate, typical	1,000 scans/s
Bar codes per reading gate, max. number	64 Piece(s)
	0
Optical data	
Reading distance	60 320 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
Beam deflection	Via rotating polygon wheel
Light beam exit	Front
Electrical data	
Protective circuit	Polarity reversal protection
Performance data	
Supply voltage U _B	18 30 V , DC
Power consumption, max.	8 W
Inputs/outputs selectable	
Output current, max.	60 mA
Number of inputs/outputs selectable	2 Piece(s)
Input current, max.	8 mA
Interface	

EtherNet IP

Type



Function	EtherNet IP	
Manual address assignment Transmission speed Trype USB USB USB Function Configuration via software Configuration via software Configuration via software Connection Number of connections 1 Piece(s) Connection BUS IN Function BUS IN Function BUS IN Connection to device Data interface PWR 7 SW INVOUT Service int		Process
Switch functionality Integrated Transmission speed 10 Motivs 100 Motivs 100 Motivs 100 Motivs 100 Motivs Service interface Type USB USB Function Configuration via software Connection Number of connections 1 Piece(s) Connection Connection Connection Data interface Plant of Connection Plug connector No. of pins 32-pin Type of connection Plug connector No. of pins 32-pin Type Mate Mochanical data Design Cubic Dimension (W x H x L) 95 mm x 44 mm x 68 mm Housing material Motal Discoast aluminum Lons cover material Glass Net weight 270 g Housing cotor Red Type of fastening Operation and display Type of display LED Number of LED 2 Piece(s) Type of configuration Via web browser Environmental data Ambient temperature, storage 20 - 70 ° C Relative Imperature, storage 20 - 70 ° C Relative Imperature, storage 20 - 70 ° C Relative Imperature, storage 20 - 70 ° C Relative Immirity (non-condensing) 0 - 90 % Certifications USB Fortier of Certifications Environmental of Certifications USB Fortier of Certifications USB Fortier of Certifications USB Fortier of Certifications USB Fortier of Certifications Fortier of Certification Certifications Fortier of Certification Certification Certification Certi	Address assignment	
Transmission speed	Switch functionality	
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Test procedure for EMC in accordance with standard EN 55022	Certifications	c UL US
	Test procedure for EMC in accordance with standard	

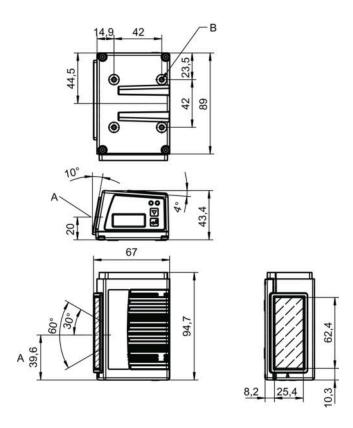


Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC 60068-2-29, test Eb
Test procedure for vibration in accordance with standard	IEC 60068-2-6, test Fc

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 M4 thread (5 deep)

Electrical connection

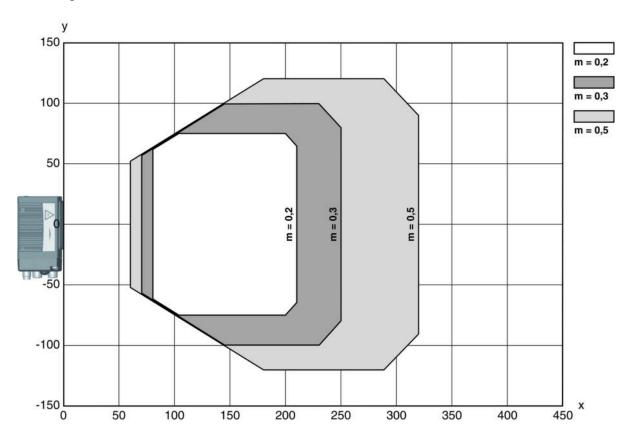
Connection 1	
	BUS IN Connection to device Data interface PWR / SW IN/OUT Service interface



Connection 1	
Type of connection	Plug connector
No. of pins	32 -pin
Туре	Male

Diagrams

Reading field curve



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

Operation and display

LEDs

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



		Display	Meaning	
		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
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

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Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
0.0	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	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

Р	Part no.	Designation	Article	Description
50	124941	BTU 0300M-W		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
50	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.