

Technical data sheet Stationary bar code reader

Part no.: 50135033

BCL 338i SL 102 D H



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Technical data



Savias	DCI 200:	Time	Ethan AT
Series	BCL 300i	Туре	EtherCAT
Special version		EtherCAT	
Special version	Heating	Function	Process
•	3	Transmission protocol	EtherCAT, CoE and EoE
Functions		Service interface	
Functions	Alignment mode	Туре	USB
	AutoConfig	Туре	000
	AutoControl	USB	
	AutoReflAct	Function	Configuration via software
	Code fragment technology		Service
	Heating		36.1.60
	LED indicator	Connection	
	Reference code comparison	Number of connections	1 Piece(s)
Characteristic parameters		ramber of conficulties	111000(3)
·	110 vo ere	Connection 1	
MTTF	110 years	Function	BUS IN
Read data			BUS OUT
Troud data		_	Connection to device
Code types, readable	2/5 Interleaved		Data interface
	Codabar		PWR / SW IN / OUT
	Code 128		Service interface
	Code 39	Type of connection	Plug connector
	Code 93	No. of pins	32 -pin
	EAN 8/13	Туре	Male
	GS1 Databar Expanded		
	GS1 Databar Limited	Mechanical data	
	GS1 Databar Omnidirectional	Design	Cubic
	UPC	Dimension (W x H x L)	95 mm x 44 mm x 68 mm
Scanning rate, typical	1,000 scans/s	Housing material	Metal
Bar codes per reading gate, max.	64 Piece(s)	Metal housing	Diecast aluminum
number		Lens cover material	Glass
		Net weight	290 g
Optical data		Housing color	Black
Reading distance	100 700 mm		Red
Light source	Laser, Red	Type of fastening	Dovetail grooves
Laser light wavelength	655 nm	Typo or lactorning	Fastening on back
Laser class	2, IEC/EN 60825-1:2007		Via optional mounting device
Transmitted-signal shape	Continuous		via optional mounting device
Usable opening angle (reading field	60 °	Operation and display	
opening)		Type of display	LED
Modulus size	0.35 0.8 mm	Type of display	Monochromatic graphic display, 128 x 32
Reading method	Line scanner		pixels
Beam deflection	Via rotating polygon wheel	Number of LEDs	2 Piece(s)
Light beam exit	Front	Type of configuration	Via web browser
Electrical deta		Operational controls	Button(s)
Electrical data	Poledicare de la company	Fording was a state of a	
Protective circuit	Polarity reversal protection	Environmental data	
Performance data		Ambient temperature, operation	-35 40 °C
Supply voltage U _R	18 30 V, DC	Ambient temperature, storage	-20 70 °C
Supply voltage o _B	27 W	Relative humidity (non-condensing)	0 90 %
Power consumption, max.			
Power consumption, max.			
	60 mA		
Power consumption, max. Inputs/outputs selectable			
Power consumption, max. Inputs/outputs selectable Output current, max.			

Technical data



Certifications

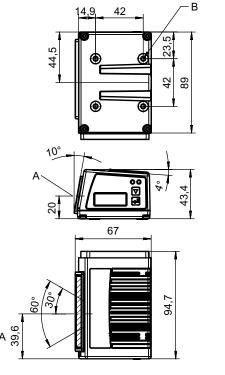
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	EN 61000-4-2, -3, -4, -6
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC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

Classification

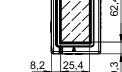
Customs tariff number	84719000	
eCl@ss 5.1.4	27280102	
eCI@ss 8.0	27280102	
eCI@ss 9.0	27280102	
eCI@ss 10.0	27280102	
eCI@ss 11.0	27280102	
ETIM 5.0	EC002550	
ETIM 6.0	EC002550	
ETIM 7.0	EC002550	

Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- B M4 thread (5 deep)



Electrical connection

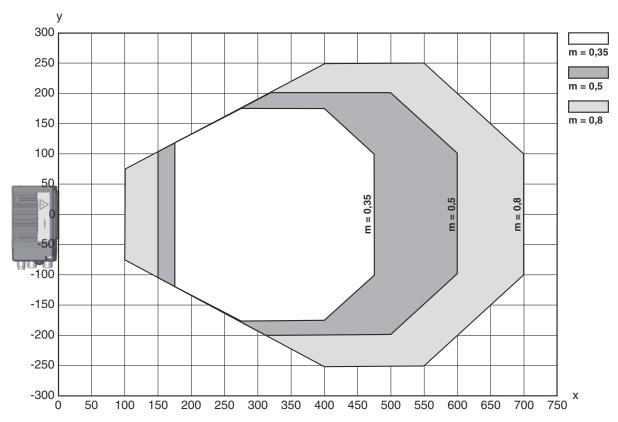
Connection 1

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



- 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
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 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.
- \$ 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.

- 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
W D	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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Accessories



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
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

Accessories



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
р В	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 website in the Download tab of the article detailed page.