SMART SENSOR BUSINESS

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the sensor people





Part no.: 50116450 BCL 348i SL 102 Stationary bar code reader



Figure can vary

Contents

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- · Dimensioned drawings
- · Electrical connection
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Part no.: 50116450 – BCL 348i SL 102 – Stationary bar code reader

Technical data

Series BCL 3001 Functions Functions Functions Functions Functions AutoConfig AutoC	Basic data	
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Usable opening angle (reading field opening) 60 ° Modulus size 0.35 0.8 mm Reading method Line scanner Beam deflection Via rotating polygon wheel Light beam exit Front Front Felectrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC Power consumption, max. 4.5 W Inputs/outputs selectable 2 Piece(s) Output current, max. 60 mA Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA	Laser class	2, IEC/EN 60825-1:2007
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Beam deflection Via rotating polygon wheel Light beam exit Front Flectrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB Supply voltage UB 18 30 V , DC Power consumption, max. 4.5 W Inputs/outputs selectable Output current, max. Output current, max. 60 mA Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA	Modulus size	0.35 0.8 mm
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Electrical data Protective circuit Polarity reversal protection Performance data	Beam deflection	Via rotating polygon wheel
Protective circuit Polarity reversal protection Performance data Imputs/outge UB Supply voltage UB 18 30 V , DC Power consumption, max. 4.5 W Inputs/outputs selectable 0utput current, max. Output current, max. 60 mA Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA	Light beam exit	Front
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Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA		
Input current, max. 8 mA		
Interface		
	Input current, max.	8 mA
Type PROFINET		
	Туре	PROFINET

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

Part no.: 50116450 – BCL 348i SL 102 – Stationary bar code reader

Destinat				
Profinet	Duran			
Function	Process			
Conformance class	B			
Protocol	PROFINET RT			
Switch functionality	Integrated			
Transmission speed	10 Mbit/s 100 Mbit/s			
Service interface				
Гуре	USB			
USB				
Function	Configuration via software Service			
Connection				
Number of connections	1 Piece(s)			
Connection 1				
Type of connection	Plug connector			
Function	BUS IN BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface			
No. of pins	32 -pin			
Туре	Male			
Nechanical data				
Design	Cubic			
Dimension (W x H x L)	95 mm x 44 mm x 68 mm			
Dimension (W x H x L) Housing material	95 mm x 44 mm x 68 mm Metal , Diecast aluminum			
Housing material Lens cover material	Metal , Diecast aluminum Glass			
Housing material	Metal , Diecast aluminum			
Housing material Lens cover material Net weight	Metal , Diecast aluminum Glass 270 g Black			
Housing material Lens cover material Net weight Housing color Fype of fastening	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back			
Housing material Lens cover material Net weight Housing color Type of fastening Operation and display	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Fype of display Number of LEDs	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s)			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device			
Housing material Lens cover material Net weight Housing color Type of fastening Deration and display Type of display Number of LEDs Type of configuration Environmental data	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Type of display Number of LEDs Fype of configuration Environmental data Ambient temperature, operation	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Fype of display Number of LEDs Fype of configuration Environmental data Ambient temperature, operation Ambient temperature, storage	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C -20 70 °C			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Type of display Number of LEDs Fype of configuration Environmental data Ambient temperature, operation	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C			
Housing material Lens cover material Net weight Housing color Type of fastening Deration and display Type of display Number of LEDs Type of configuration Environmental data Ambient temperature, operation Ambient temperature, storage Relative humidity (non-condensing) Certifications	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C -20 70 °C 0 90 %			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Type of display Number of LEDs Fype of configuration Environmental data Ambient temperature, operation Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C -20 70 °C 0 90 %			
Housing material Lens cover material Lens cover material Net weight Housing color Type of fastening Deration and display Type of fastening Type of display Number of LEDs Type of configuration Environmental data Ambient temperature, operation Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C -20 70 °C 0 90 %			
Housing material Lens cover material Net weight Housing color Fype of fastening Deration and display Type of display Number of LEDs Fype of configuration Environmental data Ambient temperature, operation Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection	Metal , Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED 2 Piece(s) Via web browser 0 40 °C -20 70 °C 0 90 %			

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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	
Classification Customs tariff number	84719000
	84719000 27280102
Customs tariff number	

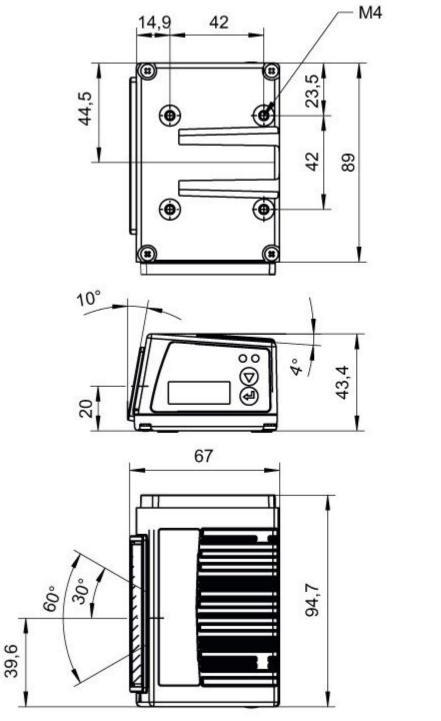
EC002550

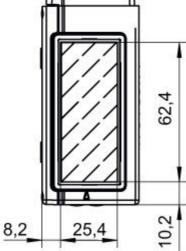
Dimensioned drawings

All dimensions in millimeters

ETIM 6.0

Part no.: 50116450 – BCL 348i SL 102 – Stationary bar code reader





Electrical connection

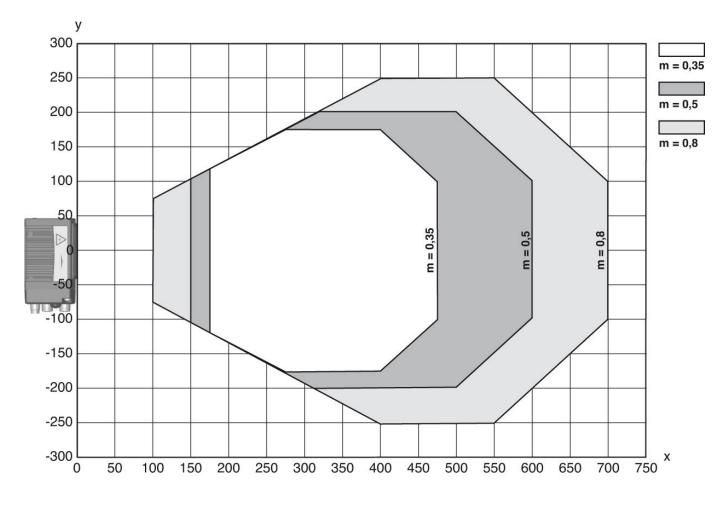
Connection 1	
Type of connection	Plug connector

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Connection 1	
	BUS IN BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface
No. of pins	32 -pin
Туре	Male

Diagrams

Reading field curve



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

Operation and display

LEDs

	LED		Display	Meaning	
1	PWR Green, flashing		Green, flashing	Device ok, initialization phase	

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LED		Display	Meaning		
	Green, continuous light D		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	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		
ΥY	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		
BB	Special equipment: D: with display H: with heating DH: optionally with display and heating P: plastic exit window		
0000	Functions: optimized data structure for process data		

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.

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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.

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
	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	rt no.	Designation	Article	Description
50121	21433 B	3T 300 W	C C	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		Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, für M4-Schrauben geeignet, Groove mounting Material: Metal

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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
	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.