

Technical data sheet

Stationary bar code reader

Part no.: 50116424

BCL 348i ON 100



Figure can vary

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- Technical data
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Technical data

Basic data

Series	BCL 300i
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Functions

Functions	Alignment mode
	AutoControl
	AutoReflAct
	Code fragment technology
	LED indicator
	Reference code comparison

Characteristic parameters

MTTF	110 years
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Read data

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)

Optical data

Light source	Laser, Red
Wavelength	655 nm
Laser class	1, IEC/EN 60825-1:2014
Transmitted-signal shape	Continuous
Reading method	Oscillating-mirror scanner
Beam deflection	Via rotating polygon wheel + stepping motor with mirror
Light beam exit	Zero position at side at angle less than 90°
Oscillating mirror frequency	10 Hz
Max. swivel angle	20 °

Electrical data

Protective circuit	Polarity reversal protection
Performance data	
Supply voltage U _B	18 ... 30 V, DC
Power consumption, max.	9 W
Inputs/outputs selectable	
Output current, max.	60 mA
Number of inputs/outputs selectable	2 Piece(s)
Input current, max.	8 mA

Interface

Type	PROFINET
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Profinet

Function	Process
Conformance class	B
Protocol	PROFINET RT
Switch functionality	Integrated
Transmission speed	10 Mbit/s
	100 Mbit/s

Service interface

Type	USB 2.0
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USB

Function	Configuration via software
	Service

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	BUS IN
	Connection to device
	Data interface
	PWR / SW IN / OUT
	Service interface
Type of connection	Plug connector, It is essential to use a connection unit when commissioning the device.
No. of pins	32 -pin
Type	Male

Mechanical data

Design	Cubic
Dimension (W x H x L)	125 mm x 58 mm x 110 mm
Housing material	Metal
Metal housing	Diecast aluminum
Lens cover material	Glass
Net weight	580 g
Housing color	Red
	Silver
Type of fastening	Dovetail grooves
	Fastening on back

Operation and display

Type of display	LED
Number of LEDs	2 Piece(s)
Type of configuration	Via web browser

Environmental data

Ambient temperature, operation	0 ... 40 °C
Ambient temperature, storage	-20 ... 70 °C
Relative humidity (non-condensing)	0 ... 90 %

Technical data

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

Electrical connection

Connection 1

Function	BUS IN Connection to device Data interface PWR / SW IN / OUT Service interface
Type of connection	Plug connector
Type of connection	It is essential to use a connection unit when commissioning the device.
No. of pins	32 -pin
Type	Male

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

Notes



ATTENTION! LASER RADIATION – CLASS 1 LASER PRODUCT



The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of **laser class 1** and complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

☞ 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.

Accessories

Connection technology - Connection boxes

	Part no.	Designation	Article	Description
	50131256 *	ME 348 103	Connection unit	Suitable for: BCL 348i Suitable for interface: PROFINET Number of connections: 4 Piece(s) Connection: Cable with connector, M12, 900 mm
	50131259 *	ME 348 104	Connection unit	Suitable for: BCL 348i Suitable for interface: PROFINET Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 900 mm
	50131258 *	ME 348 214	Connection unit	Suitable for: BCL 348i Suitable for interface: PROFINET Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 600 mm
	50116467 *	MK 348	Connection unit	Suitable for: BCL 348i, BPS 348i Suitable for interface: PROFINET Number of connections: 4 Piece(s) Connection: Terminal
	50116471 *	MS 348	Connection unit	Suitable for: BCL 348i, BPS 348i Suitable for interface: PROFINET Number of connections: 4 Piece(s) Connection: Connector, M12

* Necessary accessories, please order separately

Note



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