

# **Technical data sheet** Stationary bar code reader

Part no.: 50116425

BCL 348i ON 100 D



#### Contents

- Technical data
- Electrical connection
- Operation and display
- Notes
- Accessories









## **Technical data**



Basic data	
Series	BCL 300i
Functions	
Functions	Alignment mode
	AutoControl
	AutoReflAct
	Code fragment technology
	LED indicator
	Reference code comparison
	Neierence code companson

MTTF	110 years
Characteristic parameters	
	Reference code comparison
	LED indicator

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 $90^{\circ}$
Oscillating mirror frequency	10 Hz
Max. swivel angle	20 °

Electrical data		
Protective circuit		Polarity reversal protection
	Performance data	
	Supply voltage U <sub>B</sub>	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)		2 Piece(s)
	Input current, max.	8 mA

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Гуре	PROFINET

Profinet	
Function	Process
Conformance class	В
Protocol	PROFINET RT
Switch functionality	Integrated
Transmission speed	10 Mbit/s
	100 Mbit/s
Service interface	

#### S

Туре	USB 2.0
USB	
Function	Configuration via software
	Service

#### Connection

N	lumber of connections	1 Piece(s)
	Connection 1	
F	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
	Туре	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
	Monochromatic graphic display, 128 x 32 pixels
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**



#### 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	IEC 60068-2-6, test Fc

#### Classification

Customs tariff number 84719000

#### **Electrical connection**

#### **Connection 1**

accordance with standard

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
Туре	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.

- 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
6	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
6	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
6	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
00	50116471 *	MS 348	Connection unit	Suitable for: BCL 348i, BPS 348i Suitable for interface: PROFINET Number of connections: 4 Piece(s) Connection: Connector, M12

<sup>\*</sup> 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.