## Barcode scanner





# **Model Number**

VB14N-600-T

Barcode scanner

# **Features**

- Line scanner
- Version for low temperature ap tions
- Simple operation via function keys: test mode, code teaching and code optimization
- Code reconstructor
- Connect up to 32 scanners
- Sturdy aluminum housing
- Two serial interfaces RS 232 / RS 485
- Engine control (On/Off) possible
- Degree of protection IP65

# **Function**

The VB14N-\*\*\*-T is a line scanner for reading 1D barcodes and is specially designed for use at low temperatures. With its highperformance optics and code reconstruction, the barcode scanner offers a high level of reliability when reading 1D barcodes that are difficult to detect.

A function key and several LEDs on the barcode scanner provide support when parameterizing, teaching in barcodes, and testing. In live operation, the LEDs provide information about the relevant read status.

You can establish a high-speed connection between up to 32 devices. This connection enables data to be recorded in a quicker and more efficient manner, without the need for an additional external multiplexer.

The corresponding PC software makes parameterization simple.

A	Light source		laser diode
	Light type		modulated visible red light
	Laser nominal ratings		
	Note		LASER LIGHT , DO NOT STARE INTO BEAM
	Laser class		2
	Wave length		650 nm
	Beam divergence		< 1.5 mrad
	Pulse length		1.5 ms
	Repetition rate		200 Hz
	max. pulse energy		3.26 µJ
	Scan rate		600 1000 s <sup>-1</sup>
	Read distance		190 600 mm
	Angle of divergence		50 °
	Optical face		front or on side (with deviation mirror)
	Resolution		0.35 mm ( 14 mils )
	Indicators/operating means		
	Operation indicator		LED blue: Power on, LED green: Ready to read (READY), LED green: Read successfully (GOOD), LED yellow: External trigger signal pending (TRIGGER), LED yellow: Communication active (COM), LED red: "no read" (STATUS)
	Electrical specifications		
	Operating voltage	UB	10 30 V DC
	Power consumption	P <sub>0</sub>	max. 5 W
	Interface		
	Interface type		serial , RS-232 and RS-485 up to 115.2 kBit/s ID-NET™ up to 1 Mbit/s
	Input 1		
	Input type		External triggering
	Output		
	Signal output		2, programmable, optocoupled
oplica-	Switching voltage		max. 40 V DC
	Switching current		max. 40 mA
	Voltage drop	Ud	1 V at load current $\leq$ 10 mA

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**Technical Data** General specifications

> -35 ... 45 °C (-31 ... 113 °F) -35 ... 70 °C (-31 ... 158 °F) 90 %, noncondensing IEC 68-2-27 Test EA 30G; 11 ms; 3 impacts on each axis IEC 68-2-6 Test FC 1.5 mm ; 10 ... 55 Hz ; 2 hours on each axis

### IP65

1 m cable with 25-pin Sub-D connector

aluminum 330 g

Compliance with standards and direc-

Ambient conditions

Relative humidity

Shock resistance

Connection

Material Housing

Mass

tives

Vibration resistance

Directive conformity Standard conformity

Noise immunity

Laser class

Emitted interference

Degree of protection

Mechanical specifications Degree of protection

Ambient temperature

Storage temperature

EMC Directive 2004/108/EC

EN 61000-6-2:2005 EN 55022 EN 60529 IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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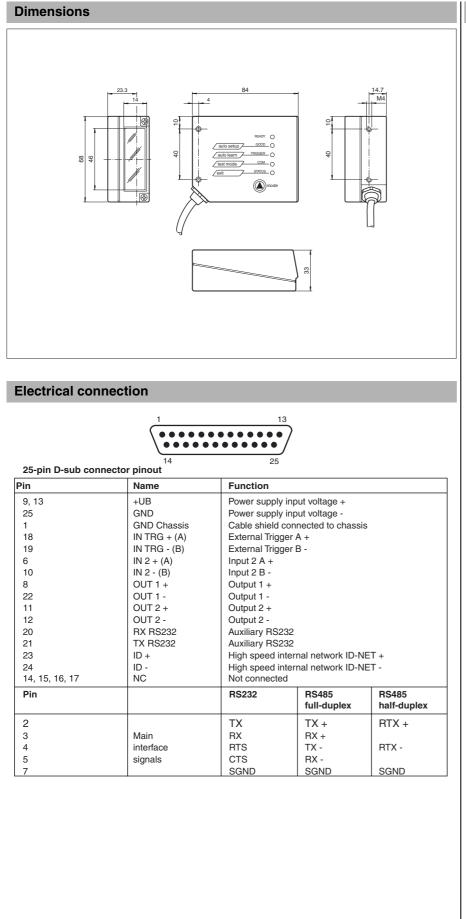
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# VB14N-600-T



Accessories CBX500-KIT-B6

## CBX100

Connector box for barcode scanner

Other suitable accessories can be found at www.pepperl-fuchs.com

www.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

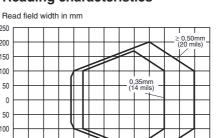
# **Curves / diagrams**

250 200

150 100 50

0

#### **Reading characteristics** VB14N-600



50 100 150 200 250 300 350 400 450 500 550 600 Read range in mm

## Laser notice laser class 2

- The irradiation can lead to irritation especially in a dark environment. Do not point ٠ at people!
- Caution: Do not look into the beam! •
- Maintenance and repairs should only be carried out by authorized service personnel! ٠
- Attach the device so that the warning is clearly visible and readable. •
- Caution Use of controls or adjustments or performance of procedures other than those ٠ specified herein may result in hazardous radiation exposure.

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