



Model Number

VB24-1000

Barcode scanner

Features

- Line scanner •
- Simple operation via function keys: test mode, code teaching and code optimization
- Code reconstructor
- Connect up to 32 scanners to a network with ID-NetTM
- Two-digit LC display
- Mechanical focus adjustment
- Two serial interfaces RS 232 / RS 485

Function

The barcode scanner is a line scanner for 1D barcodes. Thanks to its high-performance optics and integrated code reconstruction technology, the scanner offers a high level of reliability in reading difficult-to-detect 1D barcodes.

The barcode scanner also features a mechanical focus adjustment function, which allows for a large reading distance range.

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 reading status. The integrated display provides the user with a whole host of information, including the reading results.

Simple parameterization can be performed via the PC software.

Accessories

CBX100

Connector box for barcode scanner

Other suitable accessories can be found at

General specifications
Light source
Light type
Laser nominal ratings
Note
Laser class
Wave length
Pulse length
Scan rate
Read distance
Depth of focus

laser diode

Technical Data

Light type	modulated visible red light			
Laser nominal ratings				
Note		LASER LIGHT , DO NOT STARE INTO BEAM		
Laser class		2		
Wave length		630 nm 680 nm		
Pulse length		5 ms		
Scan rate		up to 900 s ⁻¹		
Read distance		200 1000 mm		
Depth of focus		up to 600 mm		
Angle of divergence		50 °		
Optical face		frontal		
Ambient light limit		30000 Lux		
Resolution		0.2 mm		
Indicators/operating means				
Operating display		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	U _B	10 30 V DC		
Power consumption	P ₀	max. 6 W		
Interface				
Interface type		serial , RS 232 and RS 485 up to 115.2 kBit/s ID-NET™ up to 1 Mbit/s		
Input				
Input type		External triggering, optocoupled		
Input voltage		max. 10 30 V DC		
Input current		max. 12 mA		
Input 1				
Input type		IN2 optocoupled		
Input voltage		max. 10 30 V DC		
Input current		max. 12 mA		
Output				
Signal output		2, programmable, optocoupled		
Switching voltage		max. 30 V DC		
Switching current		max. 40 mA		
Ambient conditions				
Ambient temperature		0 50 °C (32 122 °F)		
Storage temperature		-20 70 °C (-4 158 °F)		
Relative humidity		90 % , noncondensing		
Shock resistance		IEC 68-2-27 Test EA 30G; 11 ms; 3 impacts on each axis		
Vibration resistance		IEC 68-2-6 Test FC 1.5 mm ; 13 55 Hz ; 2 hours on each axis		
Mechanical specifications				
Protection degree		IP65		
Connection		2 m cable with 25-pin Sub-D connector		
Material				
Housing		aluminum		
Mass		570 g		
Compliance with standards and di tives	irec-			
Directive conformity		EMC Directive 2004/108/EC		
Standard conformity				
Noise immunity		EN 61000-6-2:2005		
Emitted interference		EN 55022		
Protection degree		EN 60529		
Laser class		IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated		

VB24-1000

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Subject to reasonable modifications due to technical advances.

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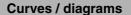
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Dimensions							
- 34							
Electrical connection							
25-pin D-sub connector p							
Pin 9, 13 7, 25 1 18 19 6 10 8 22 11 12 20 21 23 24 14, 15, 16, 17 Pin	Name +UB GND GND Chassis IN TRG (A) IN TRG (B) IN 2 (A) IN 2 (B) OUT 1 + OUT 1 - OUT 2 - RX RS232 TX RS232 ID + ID - NC	External Trigger / External Trigger I Input 2 A (polarit Input 2 B (polarit Output 1 + Output 1 - Output 2 + Output 2 - Auxiliary RS232 High speed inter	ut voltage - hected to chassis (polarity insensitive) (polarity insensitive) insensitive) insensitive) hal network ID-NET + hal network ID-NET - RS485 RS485				
			full-duplex	half-duplex			
2 3 4 5	Main interface signals	TX RX RTS CTS	TX + RX + TX - RX -	RTX + RTX -			

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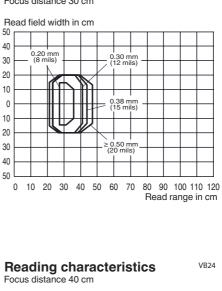
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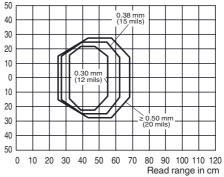


Reading characteristics Focus distance 30 cm



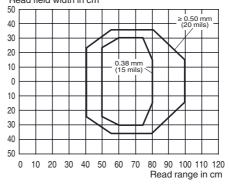


Read field width in cm



Reading characteristics Focus distance 60 cm

Read field width in cm



Laser notice laser class 2

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Caution: Do not look into the beam!
- Maintenance and repairs should only be carried out by authorized service personnel!
- 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 specified herein may result in hazardous radiation exposure.

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