



Model Number

VB6-240

Barcode scanner

Features

- Extremely compact dimensions
- Up to 1200 scans/s
- ACB™ (Advanced Code Builder) re-structor
- IP65 rugged industrial housing
- Test function with display of reader
- Engine control (On/Off) possible

Technical Data

General specifications

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	1.39 ms
Repetition rate	200 Hz
max. pulse energy	1.39 µJ
Symbologies	EAN/UPC (including Add-on 5), 2/5 Interleaved, Code 39 (Standard and Full ASCII), Code 93, Code 128, EAN 128, ISBM 128, Pharmacode
Scan rate	800 s ⁻¹ or 1200 s ⁻¹
Read distance	up to 240 mm
Optical face	frontal
Resolution	0.15 mm (6 mils)

Indicators/operating means

Operating display	"Power on /100 %", "Good Read /80", "Ext. Trig /60 %", "TX Data /40 %", "Laser on /20 %"
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Electrical specifications

Operating voltage	U _B	5 V DC ± 5 %
Power consumption	P ₀	2 W max.

Interface

Interface type	2 x RS 232 or 1 x RS 485 (full or half duplex) selectable through software
Programming interface	via serial port programmable (VisoSetup)

Input

Input signal	1 digital input
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Output

Signal output	2 digital outputs programmable
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Ambient conditions

Ambient temperature	0 ... 45 °C (32 ... 113 °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 ; 10 ... 55 Hz ; 2 hours on each axis

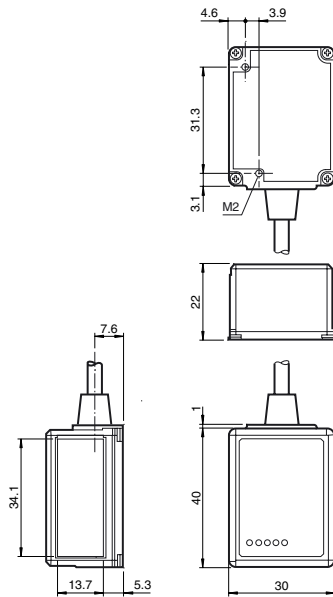
Mechanical specifications

Protection degree	IP65
Connection	15-pin sub-D connector
Material	
Housing	ZAMA (zinc, aluminium, magnesium alloy)
Cable	
Length	L 100 cm
Mass	44 g
Dimensions	40 mm x 30 mm x 22 mm

Compliance with standards and directives

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 June 24, 2007

Dimensions



Electrical connection



15-pin Sub-D connector pinout

Pin	Name	Function		
1	VS	Power Supply Input Voltage +		
5	GND	Power Supply Input Voltage -		
8	PE	Protective Earth Ground		
13	SHIELD	Cable Shield		
9	EXT	External Trigger -		
7	OUT1 +	Output 1 +		
14	OUT2 +	Output 2 +		
11, 12, 15	NC	Not connected		
Pin	Name	RS 232	RS 485 full duplex	RS 485 half duplex
2	Serial interface signals	Tx Main	Tx-	Tx/Rx-
3		Rx Main	Rx+	
6		Tx AUX	Tx+	Tx/Rx+
10		Rx AUX	Rx-	
4		SGND	SGND	SGND

Function

The combination of extremely compact dimensions and powerful high speed reading capabilities makes the VB6 scanner ideal for demanding OEM applications. In fact, VB6 miniaturization allows easy integration into OEM equipment and automatic machinery. The high scan rate and sophisticated electronic design effectively addresses difficult reading conditions.

Availability of embedded ACB™ (Advanced Code Builder) reconstruction SW algorithm allows consistent decoding of damaged or mis-applied labels (resulting in high tilt angles).

VB6 installation and configuration is easy and simple thanks to compact size and to the new test operating mode with bar-graph. Test mode is activated by means of a pushbutton on the scanner (external PC not required) and the LED bargraph shows the readability. This feature increases the scanner ease of installation and re-positioning during product changeovers in automated machinery.

VB6 operates at a speed up to 1200 scan/s, extending the application range also to high speed document handling, paper inserting, label rewinding and packaging machines.

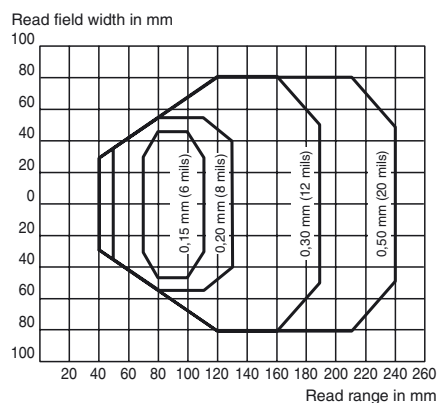
Additionally, the scanner motor can be switched ON and OFF via SW command. This feature is useful in very low throughput application or when the machine sits idle for long periods. A simple software command allows a prompt restoration of full operation when needed.

VB6, the best answer for reduced space and high performance integration barcode reading needs.

Curves / diagrams

Reading characteristics

VB6-240



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.