Model Number

VB6-240-V

Barcode scanner

Features

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

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 %"
Electrical specifications		
Operating voltage	U_B	5 V DC ± 5 %
Power consumption	P_0	2 W max.
Interface		
Interface type		RS 232
Input		
Input signal		1 digital input ; 1 Verifier input
Output		
Signal output		2 digital outputs programmable
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

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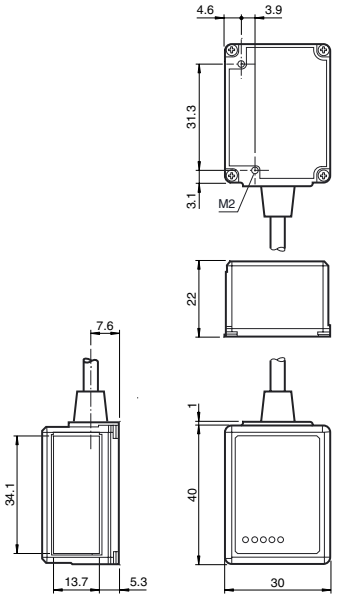
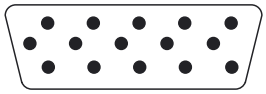
Dimensions



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 +
2	Verifier A	Verifier contact A
3	Verifier B	Verifier contact B
6	TX	TX RS 232
10	RX	RX RS 232
4	SGND	Signal Ground
11, 12, 15	NC	Not connected

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.

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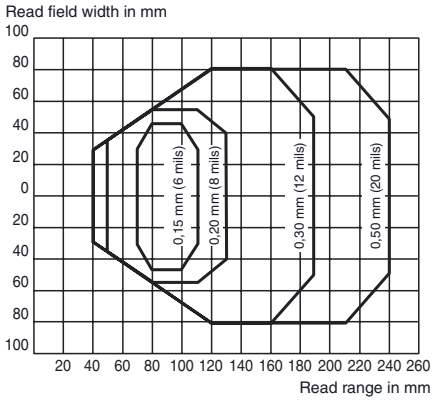
Curves / diagrams

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.

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