

# LazerData® 9000E Bar Code Laser Scanner

## *Compact High Speed Line Scanner For High-Volume Sortation And Verification Applications*

- **Designed especially for high speed quality control, distribution and inventory control applications**
- **Scan rates up to 2000 per second for fast throughput**
- **Small size and light weight for easy installation**

### **Dependable High-Speed Scanning In A Compact, Durable Design**

The LazerData® 9000E Bar Code Laser Scanner is a compact solution for high-speed bar code scanning applications in a variety of manufacturing, quality control and distribution environments. Its small, rugged design and exceptional performance make it the ideal choice for applications ranging from verification to sorting to automatic manifesting.

### **Superior Performance For Accurate, Consistent Reads**

The LazerData® 9000E scanner's advanced optical performance is achieved using a 670nm visible laser diode or choice of 840nm or 1310nm infrared laser, and rotating polygon mirror on a DC brushless motor. It's designed with speed and reliability in mind. Scan rates up to 2000 per second are produced and the brushless motor design eliminates costly maintenance down time. In fact, the LazerData® 9000E scanner boasts a MTBF rate of 50,000 hours!

To eliminate logjams and keep materials moving through the system,



PSC has designed an advanced digital signal processor that boasts information movement capability far in excess of even the 9000E scanner's scan rate. For even further performance enhancement, PSC designed a thermo-electric cooler which prolongs laser life in hostile environments and an optional 10mW or 20mW laser for longer operating range and improved read rates on poor contrast labels.

### **Built Tough To Last, Yet Simple To Install**

A rugged extruded aluminum housing protects the LazerData® 9000E scanner optics and decoding circuitry from the contaminants and other hazards found in harsh industrial environments. And, because the unit is so small, it fits easily into existing systems without requiring modifications to surrounding components.

Installation is further simplified by an

optional omni-mount which allows the scanner to be positioned precisely in the desired bar code location and a convenient mounting scheme which accommodates common #6 hardware.

Programmability is also built in. The LazerData® 9000E can be configured for a variety of applications and can be programmed either locally or from the host.

### **ADDITIONAL FEATURES/BENEFITS**

- *Four discrete outputs*
- *Good Read/No Read indicator*
- *Optional 10mW and 20mW laser diode for extended range scanning*
- *Choice of NEMA 12, 4 (aluminum) and 4X (stainless steel) scanner enclosures*



**When You Need To Read A Bar Code**

# LazerData® 9000E Bar Code Laser Scanner

## SPECIFICATIONS

### MECHANICAL

<b>Dimensions</b>	3.84" x 2.52" x 2.52" (97.5mm x 64mm x 64mm)
<b>Weight</b>	1 lb. (0.454 kg)
<b>Mounting</b>	Through holes on front and rear panels

### ENVIRONMENTAL

<b>Temperature rating</b>	32° to 122° F (0° to 50° C)
<b>Humidity</b>	0 - 95% non condensing
<b>Enclosure</b>	NEMA 12 aluminum NEMA 4 aluminum (optional) NEMA 4X stainless steel (optional)

### ELECTRICAL

<b>Power</b>	+12 VDC @ 600mA -12 VDC @ 2520mA +5 VDC @ 1.5mA
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#### • Accessory Power Supply

Volt: 100/200 ±10%  
Frequency: 50/60 Hz  
Current: 2A

<b>User I/O port</b>	Trigger-- VDC sink Good read, no read, good compare, no compare--internal 5 VDC Driving capability 24VDC @ 100mA Push-button compare 5 VDC sink +12 VDC, +5 VDC, -12 VDC available for external devices
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### OPTICAL

<b>Type</b>	Rotating polygon DC brushless motor
<b>Light source</b>	Laser Diode
<b>Output Wave Length</b>	670nm (visible) 840nm (infrared) 1310nm (infrared)
<b>Scan rate</b>	500 / 1000 / 2000 scans/sec.
<b>Scan angle</b>	60°
<b>Pitch</b>	±50°.
<b>Skew</b>	±40°
<b>Depth of field</b>	
<b>Min. Module</b>	<b>Near Point-Far Point</b>
7.5 mil	2.5" to 10" (6.3cm to 25.4cm)
10 mil	4.5" to 14.5" (11.4cm to 36.8cm)
15 mil	5" to 22" (12.7cm to 55.9cm)
20 mil	4" to 26" (10.2cm to 66cm)

### COMMUNICATIONS

<b>Local port</b>	RS232C
<b>Host port</b>	RS232C, RS422 RS485 multidrop
<b>Data rate</b>	00.3-38.4 Kbps
<b>Parity</b>	Odd, Even, None
<b>Data bits</b>	7 or 8, 1 or 2 stop bits
<b>Hardware protocols</b>	RTS/CTS
<b>Software protocols</b>	X-on/X-off, ACK/NACK, multidrop, polling mode D

### DECODING CAPABILITY

#### Code types

- Code 128
- I 2 of 5
- Code 39
- Codabar
- Code 49 (Special)
- Code 93
- U.P.C. A & E And Supplementals
- EAN 8
- EAN 13
- Pharmacode
- Code 11

### SAFETY / REGULATORY

<b>Electrical</b>	UL 1950, CSA 950; IEC-825
<b>Emissions</b>	FCC Class A, EN 50082-1, EN 5502
<b>Laser classification</b>	Visible: CDRH Class II IR: CDRH Class I



Specifications subject to change without notice.  
For further information, contact your PSC representative.

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For product information, technical support, answers to frequently asked questions, product documentation, software updates, repair information, and how to contact PSC, visit the PSC Website at: [www.pscnet.com](http://www.pscnet.com)

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