

Miniature Laser Fixed Position Scanner NLB-9625/9645 Series

Features

- ◆ *33/200 scans per second*
- ◆ *16-Bit microprocessor operation*
- ◆ *Easy to integrate into new equipment designs*
- ◆ *Compact size fits almost anywhere*
- ◆ *Fully programmable*
- ◆ *Rugged steel enclosure*
- ◆ *RS232 or RS422 interface*



NLB-9625/9645 fixed position laser scanners are microprocessor-controlled devices designed to be easily integrated into any new product design. Compact size and the choice of optical configurations allow the scanners to fit into tight spaces.

The scanners are available in either front or side view configurations and with a choice of 33 or 200 scans per second.

Operating on 5 VDC power, these scanners automatically recognize and decode all of the most popular bar code symbologies and transmit the decoded data using RS232C communications to the host device. 16-Bit microprocessor operation allows the user to easily program parameters in order to match the scanner to the specific application. Programmable settings can be downloaded from the host computer directly to the scanner.

A rugged steel enclosure protects the optics and electronics from dirt and other environment hazards as well as enhances ESD and EMC protection.

Using a brushless motor and a solid state laser diode results in superior reliability and extremely long life.

The standard configuration comes with a 6 foot cable, terminated in a 25 pin female D-shell connector. Custom cable lengths, connector types and pinouts are available.

Plug-in RF adapters that are powered from the RS232 signal converts the scanner and host into a versatile long distance (up to 500 feet), non-wired unit. See our web site for details.



TECHNICAL DATA

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

NLB-9625/9645 REV. 4/98

Optical

Light Source	Visible Laser Diode, $\lambda = 670 \text{ nm}$		
Image Sensor	CCD: 2048 pixels		
Scan Speed			
NLB-9625:	33 scans/sec.		
NLB-9645:	200 scans/sec. (Decodes 100 scans/sec.)		
Resolution	0.15 mm at PCS 0.9		
Min PCS Value	0.45		
Focal Point mm (in)	<u>Model</u>	<u>Front View</u>	<u>Side View</u>
	NLB-9625	142 (5.6)	89 (3.5)
	NLB-9645	132 (5.2)	107 (4.2)

Electrical

Operating Voltage	5 VDC \pm 10%		
Current			
Operating	NLB-9625: 100 mA typ., 130 max. NLB-9645: 170 mA typ., 200 max.		
Standby	20 mA max.		
Surge	2.5 A (1.0A, 15 μ s)		
Interface	RS232 C or RS422		

Environmental

Temperature		
Operating	-10 to +40° C (+14 to +104° F)	
Storage	-30 to +60° C (-22 to +140° F)	
Humidity (non-condensing)		
Operating	5 to 95%	
Storage	5 to 95%	
Regulatory	CE Certified, ISO 9002 certified mfg. facility	
CDRH	This product conforms to 21 CFR 1040.1 and 21 CFR 1040.11 (CDRH Class II)	

Physical

Case Material	Steel
Dimensions (L x W x H)	
Front View	74 x 68 x 26 mm (2.9 x 2.7 x 1 in)
Side View	110 x 68 x 30 mm (4.3 x 2.7 x 1.2 in)
Weight	218 g (7.7 oz)

Ordering Information

Part Number	Scans/Sec	View	I/F
LPN 9626 RR1S-032	33	Side	RS232
LPN 9627 RR1S-032	33	Front	RS232
LPN 9646 RR1S-032	200	Side	RS232
LPN 9647 RR1S-032	200	Front	RS232

Alternate connectors and pinouts are available to match your application. Ask for details.

Accessories

Part Number	Description
25-NLB0045-01	Manual, LPN 96xx Fixed Position Laser
32-00532-02	120VAC to 5 VDC Power Supply
41-PAT07-01	Patch Cable DB25M to DB25F w/5V Connector
41-PAT06-01	Patch Cable DB25M to DB9F w/5V Connector
36-RF-01	RF Adapter

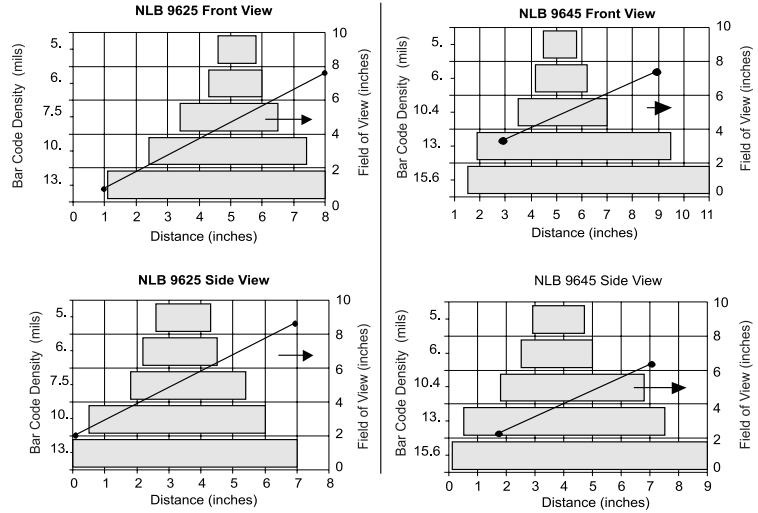
Warranty

Opticon laser scanners are warranted for a period of one (1) year, including parts & workmanship. See our web site for details.

Technical Support / Sales

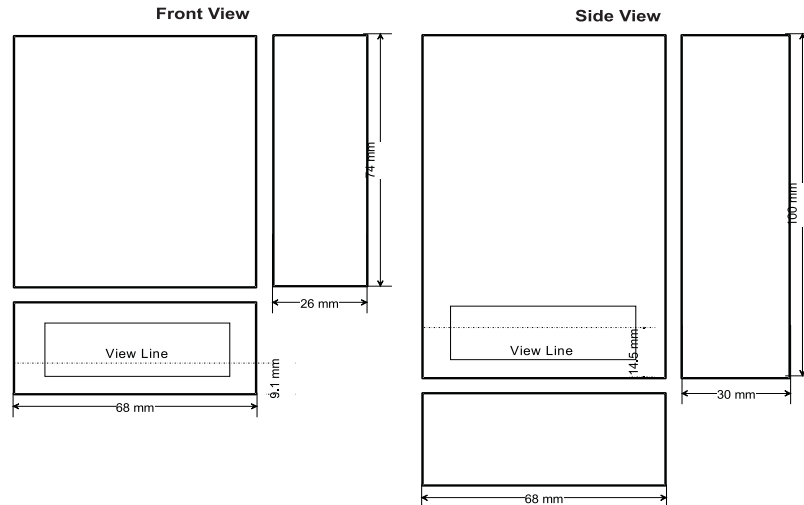
Opticon's experienced, well trained technical staff are available to answer questions and assist you in every way possible in support of our products. Call today to find out how the scanner can be adapted to your design: (800) 636-0090, or visit our web site at www.opticonUSA.com

Depth-of-Field / Field-of-View



PCS = 0.9

General Mechanical Specifications



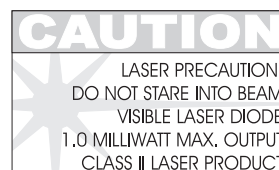
Pinouts (RS232C)

DB25 Female Connector

Pin	Function
1	Field Ground
2	RXD
3	TXD
4	CTS
5	RTS
7	Signal Ground
16	Trigger
25	+5V

Symbologies

Codabar
Code 39
Code 93
Code 128
Standard 2of5
Interleaved 2of5
MSI/Plessey
UPC, EAN, JAN



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