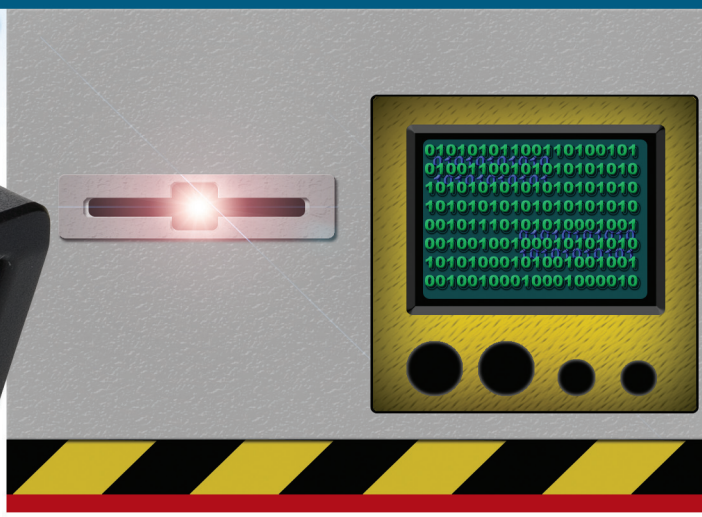
1D LASER

NLV 1001

Compact Fixed Position Laser Barcode Scanner



An ultra-compact and lightweight fixed-position barcode scanner that uses Opticon's proprietary scan engine technology for quick and accurate results.

Product Features

Compact Fixed-Position Design
At just 18.5 g (0.7 oz) without a cable and 3 cm (1.2 in) wide, the light and ultra-compact design of the NLV 1001 allows for integration into small spaces.

Plug and Scan Installation
The NLV 1001 comes with mounting holes located on the sides and bottom of the compact housing to maximize mounting options and several interfaces that provide for fast integration.

High Performance Laser Engine
The advanced laser scan engine used in the NLV 1001 offers reliable and improved scanning of all 1D codes including poorly printed and low quality symbols.

Integrated Auto Triggering
In addition to the standard software and manual trigger options, the NLV 1001 integrates an Auto Trigger that automatically initiates scanning of codes all in a compact form factor.

Ensure Data Accuracy
Embedded feature for scanning barcodes twice reduces discrepancies and ensures data accuracy even if the code is oriented in reverse.

Specifications
NLV 1001 Compact Fixed Position Laser Barcode Scanner

Electrical specifications
Voltage requirement: 5 V ± 10%
Current consumption: 85 mA (typical use), max. 150 mA

Optical specifications
Light source: 650 nm visible laser diode
Scan method: bi-directional scanning
Scan rate: 100 scans/sec
Reading pitch angle: -35 to 0°, 0 to +35°
Reading skew angle: -50 to -8°, +8 to +50°
Reading tilt angle: -20 to 0°, 0 to +20°
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Reading width: depending on reading distance and barcode label resolution
Min. resolution at PCS 0.9: 0.127 mm / 5 mil
Min. PCS value: 0.45
Depth of field: at PCS 0.9, Code 39
70 - 630 mm / 2.76 - 24.80 in (res. 1.0 mm / 39 mil),
50 - 400 mm / 1.97 - 15.75 in (res. 0.5 mm / 20 mil),
50 - 240 mm / 1.97 - 9.45 in (res. 0.25 mm / 10 mil),
50 - 130 mm / 1.97 - 5.12 in (res. 0.15 mm / 6 mil),
60 - 100 mm / 2.36 - 3.94 in (res. 0.127 mm / 5 mil)

Identification
Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes
Supported 2D code symbologies: MicroPDF417, PDF417

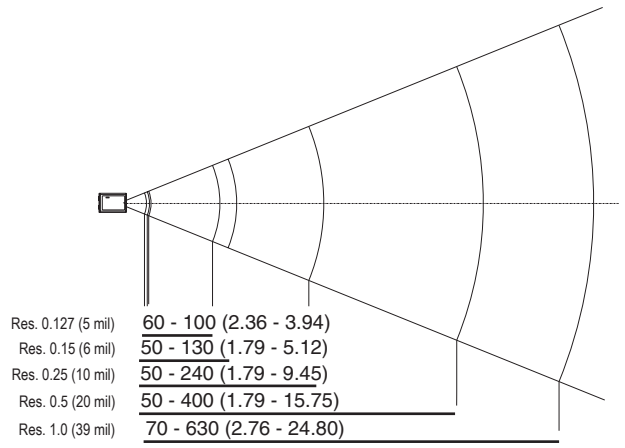
Communication specifications
Available interfaces: RS232C, Keyboard Wedge, USB(HID/VCP)

Environmental specifications
Temperature in operation: -10 to 45 ºC / 14 to 113 ºF
Temperature in storage: -20 to 60 ºC / -4 to 140 ºF
Humidity in operation: 20 - 85 % (non-condensing)
Humidity in storage: 20 - 90 % (non-condensing)
Ambient fluorescent light rejection: 3,000 lx max.
Ambient direct sun light rejection: 50,000 lx max.
Ambient incandescent light rejection: 3,000 lx max.
Antistatic electricity: 10 kV (non-destructive)
Shock drop test: 0.75 m / 2.5 ft drop onto concrete surface
Protection (dust and moisture, IEC529): IP 43

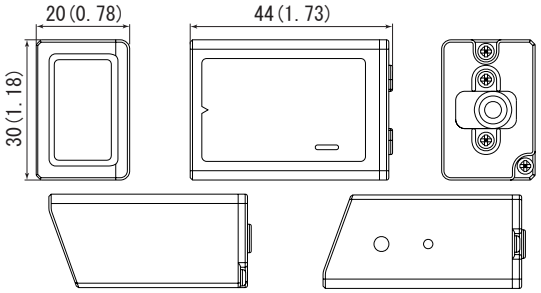
Physical specifications
Dimensions: 30 x 20 x 43.3 mm / 1.18 x 0.79 x 1.70 in
Weight body: Ca. 18.5 g / 0.7 oz (excl. cable)
Connector Keyboard Wedge: DIN6 F/M
Connector RS232: DB9 F-PTF with external power
Connector USB: USB-A

Regulatory
Laser safety class: JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I
Product compliance: CE, FCC, VCCI, RoHS

Depth of field
Unit: mm (in)



Dimension
unit: mm (in)



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