

Symbol MiniScan MS954 Series

FIXED MOUNT SCANNER

Compact, durable and high performance fixed-mount bar code scanner

The Symbol MS954 is a compact, durable, fixed-mount laser bar code scanner for premium linear scanning on all types of 1D bar codes, including poorly printed and low contrast symbols.

The Symbol MS954 offers a configurable scan angle of 47° and 35° for OEM devices requiring a flexible, expanded working range. As one of the smallest, lightest and brightest fixed-mount scanners available today, the Symbol MS954 is ideal for accurate automated data collection in OEM device designs with space constraints. It can also be used as a standalone fixed mount scanner.

| Markets | Applications |
|--------------|--|
| OEM embedded | Kiosks and ATMs Clinical diagnostics Medical instruments Blood and chemical analysis Vending and lottery machines Gaming equipment Turnstiles/access control |
| Fixed-mount | Manufacturing and warehousing Assembly lines Library and document tracking |

Rich feature set for more flexibility in many environments

The Symbol MS954 features a configurable scan angle and a working range of over 35 inches/88.9 cm to ensure high first-time read rates for maximum productivity. The Symbol MS954 is easy to program and configure, enabling you to cut your development time and bring your product to market faster - even if you don't have the in-house technical resources for scanner integration. With its durable housing and built-in RS-232 interface, the Symbol MS954 enables your project teams to quickly and confidently integrate high performance 1D bar code data capture into many applications.

Proven technology to enhance your solutions

With millions of installations worldwide, our OEM devices are proven to deliver high reliability and superior performance, ensuring the accurate and quick capture of data and images in your mission-critical applications and devices. In addition, an easy-to-integrate design and expert assistance from our world-class OEM support team enable you to bring your systems to market quickly and cost effectively. And since even the most intelligent products require a maintenance plan and a support strategy, we offer superior services to help you maximize uptime and maintain peak performance.

For more information on the Symbol MS954, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at www.symbol.com/ms954



FEATURES

BENEFITS

High performance fixed-mount scanner

Premium scanning on poorly printed and low contrast 1D symbols for maximum accuracy and productivity

Working range from near contact to over 35 in./88.9 cm

Flexible decode range for maximum accuracy and efficiency

Configurable scan angle of 47° and 35°

Ability to control scan angle to meet demands of application

Compact durable housing, mounting holes, LEDs and RS-232 interface

Plug-and-play installation reduces development time and speeds up time to market

Software controlled or manual triggering

Offers flexible control for unattended or hands-free applications

Easy to program simple serial interface (SSI)

Provides fast, simple communications between scanner and host

Reads all major 1D symbologies

Versatile decode capability enables devices to realize a high first-time read rate for improved productivity

Bright 650 nm laser diode

Scan line is easy to see

Software developer's kit (SDK) at no extra charge

Enables the creation of applications using familiar Microsoft® Windows® 98, 2000 and XP platforms

Symbol MS954 Specification Highlights

Physical Characteristics

Dimensions: 1.02 in. H x 1.93 in. W x 2.31 in. D
25.90 mm H x 49.02 mm W x 58.67 mm D (nominal)

Weight: 1.67 oz./ 47.34 gm

Performance Characteristics

Light source: Visible laser diode 650 nm

Scan rate: 104 ± 12 scans per second (bi-directional)

Scan angle: Default/wide: 47° default; Alternate/narrow: 35°

Scan pattern: Linear

Skew tolerance (Yaw): ± 50° from normal

Pitch angle: ± 65° from normal

Roll: ± 35° from vertical

Minimum print contrast: Minimum 25% absolute dark/light reflectance measured at 650 nm

Symbologies: 1D: UPC/EAN, Code 128, UCC.EAN128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI, RSS and 1-D Composite codes

Programmable parameters: Laser on time, power mode, trigger mode, bi-directional redundancy, symbology types/lengths, data formatting, serial parameters, beeper tone, pattern controls

Interface: RS-232

User Environment

Ambient light: Artificial light: 450 ft. candles (4,844 Lux)
Sunlight: 10,000 ft. candles (107,640 Lux)

Operating temperature: -4° to 140°F (-20° to 60°C)

Storage temperature: -40° to 158°F (-40° to 70°C)

Humidity: 5% to 95% noncondensing

Power:

Input voltage: 5.0 VDC ±10%
Scanning current: 95 mA typical; 125 mA max
Standby current: 27 mA typical; 50 mA max
Vcc noise level: 200mV peak-to-peak max

Drop: Unit functions normally after multiple 30 in./76 cm drops to concrete

Regulatory

Laser classification: CDRH Class II, IEC Class 2

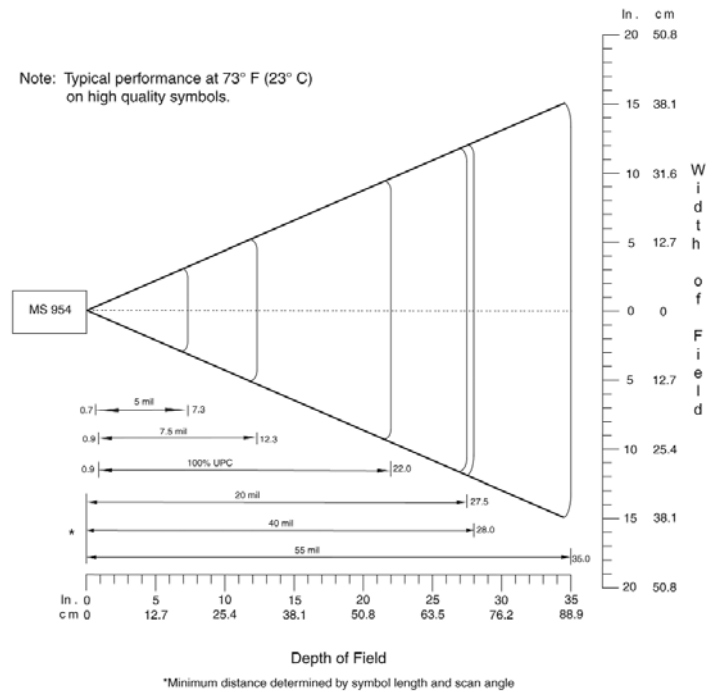
Electrical safety: Certified to UL1950, CA C22-2 N0950 ENG60950/IEC950

EMI/RFI: FCC Part 15 Class B, ICES-003 Class B European Union EMC Directive, Australian SMA

Environmental: ROHS-compliant

MS954 Decode Zone

Note: Typical performance at 73° F (23° C) on high quality symbols.



About Motorola

Motorola is known around the world for innovation and leadership in wireless and broadband communications. Inspired by our vision of Seamless Mobility, the people of Motorola are committed to helping you get and stay connected simply and seamlessly to the people, information, and entertainment that you want and need. We do this by designing and delivering "must have" products, "must do" experiences and powerful networks — along with a full complement of support services. A Fortune 100 company with global presence and impact, Motorola had sales of US \$35.3 billion in 2005. For more information about our company, our people and our innovations, please visit <http://www.Motorola.com>



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BARCODING, WIRELESS AND DATA COLLECTION

Our customers turn to us to help them become more productive and profitable. TPI's expertise guarantees your project will be successful: on time, on budget and meet your ROI requirements.

TPI will facilitate your entire wireless and data collection project:

- ✓ *Business analysis*
- ✓ *Project justification & ROI*
- ✓ *Wireless design, RF site survey and spectrum analysis*
- ✓ *WWAN, WLAN design & installation*
- ✓ *Custom software*
- ✓ *Integration w/legacy systems*
- ✓ *Mobile computers*
- ✓ *Data collection terminals*
- ✓ *Barcode printers, labels and scanners*
- ✓ *RFID solutions*
- ✓ *Configuration and deployment*
- ✓ *Training and installation*
- ✓ *Service and upgrades*
- ✓ *Remote device management and support*

TPI can share best practices in data collection from a number of industries including wholesale distribution, manufacturing, healthcare and retail/consumer goods. Our expertise allows you to shorten your learning curve and increase your return on investment.

Product specification sheet provided by TPI

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