MiniScan MS 804FZY Series

FIXED-MOUNT SCANNERS

A Compact, Durable and High Performance Fixed-Mount Bar Code Scanner

The MS 804FZY from Symbol Technologies is a compact, durable, fixed-mount laser bar code scanner featuring fuzzy logic for premium linear scanning on all types of 1D bar codes, including poorly printed and low contrast symbols.

The MS 804FZY offers a configurable scan angle of 46.5° and 35° for OEM devices requiring a flexible, expanded working range. As one of the smallest, lightest and brightest scanners available today, the MS804FZY is also ideal for accurate automated data collection in OEM device designs with space constraints.

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

Rich Feature Set for More Flexibility in Many Environments

The MS 804FZY features a configurable scan angle, fuzzy logic technology and a working range of over 40 inches/101.6 cm to ensure high first-time read rates for maximum productivity. The MS 804FZY 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 MS 804FZY enables your project teams to quickly and confidently integrate high-performance 1D bar code data capture into many applications.

Proven Embedded Technology and Services

With millions of installations worldwide, Symbol Embedded Technology solutions are hard at work in a variety of industries and everyday applications. Proven technology from Symbol Technologies allows you to offer your customers superior products and services. In addition, comprehensive training and integration services are available to support your design, testing and approval needs.



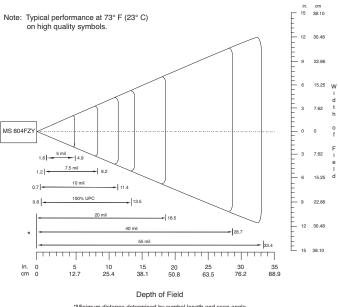
| Features | Benefits |
|--|--|
| High performance decoded scan engine with fuzzy logic technology | Premium scanning on poorly printed and low contrast 1D symbols for maximum accuracy and productivity |
| Reads all major 1D symbologies including Reduced Space Symbology [®] (RSS) | Versatile decode capability enables devices to realize a high first-time read rate for improved productivity |
| Working range from near contact to over 40 in./101.6 cm | Flexible decode range for maximum accuracy and efficiency |
| Configurable scan angle of 46.5° 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 |
| Bright 650 nm laser diode | Scan line is easy to see |
| Easy to program simple serial interface (SSI) | Provides fast, simple communications between scanner and host |
| Optional software developer's kit (SDK) | Enables the creation of applications using familiar Microsoft [®] Windows [®] 98, 2000 and XP platforms |

For more information about Symbol Embedded Technology, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at www.symbol.com/ms804fzy

MS 804FZY Specification Highlights

| Physical Characteristics | |
|---|---|
| Dimensions: | 1.0 in. H x 1.91 in. W x 2.28 in. D |
| | 2.54 cm H x 4.85 cm W x 5.79 cm D (nominal) |
| Weight: | 1.67 oz./ 47.34 gm |
| Performance Characteristics | |
| Light Source: | Visible Laser Diode 650 nm |
| Scan Rate: | 50 (± 6) scans per second (bi-directional) |
| Scan Angle: | Default: 46.5° default; Narrow: 35° |
| Scan Pattern: | Linear |
| Skew Tolerance (Yaw): | ± 60° from normal |
| Pitch Angle: | ± 65° from normal |
| Roll: | ± 30° 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 2D: RSS and 1-D Composite codes |
| Programmable Parameters: | Laser on time, power mode, trigger mode, bidirectional redundancy, symbology types/ lengths, data formatting, serial parameters, beeper tone |
| Interface: | RS-232 |
| User Environment | |
| Ambient Light: | Artificial light: 450 ft. candles (4,844 Lux) Sunlight: 8,000 ft. candles (86,112 Lux) |
| Operating Temperature: | 32° to 104°F (0° to 40°C) |
| Storage Temperature: | -40° to 158°F (-40° to 70°C) |
| Humidity: | 5% to 95% noncondensing |
| Power: Input Voltage: Scanning Current: Standby Current: Vcc Noise Level: | 5.0 VDC ±10% 150 mA ±30 mA Typical 20mA ±5mA Typical 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 NO950 ENG60950/ IEC950 |
| EMI/RFI: | FCC Part 15 Class B, ICES-003 Class B European |

MS 804FZY Decode Zone



*Minimum distance determined by symbol length and scan angle





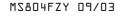
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Union EMC Directive, Australian SMA



BUSINESS PARTNER





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