Symbol MiniScan MS32XX Series
Fixed Mount Scanner

FEATURES

Compact size
Multiple mounting and interface options provide significant flexibility in the design of your kiosk.

High speed omni-directional scan pattern
Build your device with the confidence that even novice users can scan items quickly and accurately.

Generate four different scan patterns: omni-directional, semi-omni-directional, raster and single line scan patterns
Enables you to select the best scan pattern for your application.

Rugged, durable housing with exit window, integrated beeper, LEDs, decoder and a variety of interfaces including RS-232, USB and Synapse
Gives you plug-and-play installation to reduce your development time and speed your time to market.

Plug-and-play module for fast, easy self-scanning integration
The Symbol MS32XX is a member of the MiniScan family of fixed mount scanners specifically designed for kiosks as well as other standalone and OEM applications. The Symbol MS32XX high performance scan module delivers speedy plug-and-play installation in your OEM device — even if you don’t have the in-house technical resources for scanner integration. The omni-directional scan pattern minimizes the need for precise positioning of 1D symbols and helps you create intuitive self-scanning applications.

In industries like retail and hospitality, the Symbol MS32XX makes it easier for you to enrich your high-traffic kiosks with customer-centric, self-scanning applications.

How to create the ideal self-scanning applications faster
All of the robust features in the Symbol MS32XX are easy to program and configure, enabling you to cut your development time and bring your product to market faster. With a rugged durable housing, exit window, integrated beeper and interface options, the Symbol MS32XX enables your project teams to quickly and confidently integrate high-performance 1D and 2D bar code data capture into many self-scanning applications. The Symbol MS32XX delivers a high-speed omni-directional scan pattern that minimizes the need to position 1D bar codes resulting in quick, accurate scanning by any user — novice or expert.

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 about the Symbol MS32XX, access our global contact directory at www.symbol.com/contact or visit us on the web at www.symbol.com/ms32xx
Sealed to IP54 standards; protects against water and dust
Ensures reliable performance in rough conditions
Reads 1D and 2D symbols including PDF417, MicroPDF, Reduced Space Symbology®
Versatile bar code data capture in any environment
Retrocollective optical system provides high ambient light immunity
Bright scan pattern ensures visibility and ease of use, improving productivity at the point of activity
Easy-to-program simple serial interface (SSI)
Provides quick and easy interface (SSI) communication with advanced features and functionality between scanner and host

Applications

- **Department and convenience stores; supermarkets; warehouse clubs**
- **Airports and hospitality**
- **Kiosks; gift registry; listening stations; loyalty/incentive programs; customer service and price verification**
- **ATMs and self check-in/check-out**

Symbol MS32XX Specification Highlights

### Physical Characteristics

- **Dimensions:**
  - 1.98 H x 2.41 W x 3.60 L (in)
  - 4.8 H x 5.87 W x 8.89 D (cm)
- **Weight:** 4.97 oz / 142 gm
- **Interface:**
  - MS3204: RS232
  - MS3207: TTL, RS232, USB, Synapse

### Performance Characteristics

- **Light Source:** Visible laser diode 650 nm
- **Scan Rate:** 640 scans/second
- **Scan Angle:**
  - Horizontal: Cyclone 34°; Raster 34°
  - Vertical: Cyclone 34°; Raster 12.5°
- **Scan Patterns:** Omnidirectional, semi-omnidirectional, smart raster, high density single scan line
- **Minimum Print Contrast:** 35% absolute dark/light reflectance differential (PDF)
  - 35% absolute dark/light reflectance differential (1D)
- **Ranges - 1D codes:**
  - **6 mil:** Code 39 - 80% MRD: 0.25 - 3.25 (in) / 0.64 - 8.3 (cm)
  - **13 mil:** 100% UPC - 80% MRD: 1.5 - 12.5 (in) / 3.8 - 31.2 (cm)
  - **20 mil:** LC 35% - 80% MRD: 1.75 - 12.5 (in) / 4.4 - 31.2 (cm)
- **PDF 417 codes:**
  - **6.6 mil:** PDF417 - 80% MRD: 1 - 5.25 (in) / 2.54 - 13.34 (cm)
  - **10 mil:** PDF417 - 80% MRD: 3.5 - 9.5 (in) / 8.89 - 24.13 (cm)
  - **15 mil:** PDF417 - 80% MRD: 6.5 - 14 (in) / 16.51 - 35.6 (cm)

### User Environment

- **Ambient Light:**
  - Artificial: 450 ft. candles (4,844 LUX)
  - Sunlight: 8,000 ft. candles (86,112 Lux)
- **Operating Temperature:** -22º to 122º F / -30º to 50º C
- **Storage Temperature:** -40º to 158º F / -40º to 70º C
- **Humidity:** 5% to 95% noncondensing
- **Power:**
  - MS3204:
    - Input Voltage: 5.0 VDC ± 10%
    - Scan Current: 250 mA typical
    - Standby Current: 25 mA / ± 5mA
  - MS3207:
    - Input Voltage: ± 5.0 VDC ± 10%
    - Scan Current: 250 mA typical
    - Standby Current: 45 mA / ± 5mA
- **Drop Rating:** Unit functions normally after multiple 30 in (76 cm) drops to concrete
- **Symbologies Supported:** All major 1D bar codes and PDF bar codes
- **Programmable Parameters:**
  - Parameters: Laser On Time, Power Mode, Trigger Mode, Bidirectional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone, Pattern Controls

### Regulatory

- **Laser Classification:** CDRH Class II, IEC Class 2
- **Electrical Safety:** Certified to UL1950, CA C22-2 N0950 EN60950/IEC950
- **EMI/RFI:**
  - FCC Part 15 Class B, IEC600883 Class B European
  - Union EMC Directive, Australian SMA
- **Environmental:** ROHS compliant