



# 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

#### Generates 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 you

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](http://www.symbol.com/contact) or visit us on the web at [www.symbol.com/ms32xx](http://www.symbol.com/ms32xx)

## SPECIFICATION SHEET

SYMBOL MINISCAN MS32XX SERIES  
Fixed Mount Scanner

### 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** Kiosks; gift registry; listening stations; loyalty/incentive programs; customer service and price verification

**Airports and hospitality** ATMs and self check-in/check-out

# Symbol MS32XX Specification Highlights

## Physical Characteristics

Dimensions: 1.98H x 2.41W x 3.60L (in)  
4.8H x 5.87W x 8.89D (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 Lighting Tolerant to typical artificial indoor and natural  
Tolerance: outdoor (direct sunlight) lighting conditions.  
Fluorescent, Incandescent, Mercury Vapor, Sodium  
Vapor, LED<sup>1</sup>: 450 Ft Candles (4,844 Lux) Sunlight:  
8000 Ft Candles (86,111 Lux)

Operating Temperature: -22° to 122° F / -30° to 50° C

Storage Temperature: -40° to 158° F / -40° to 70° C

Humidity: 5% to 95% noncondensing

Power: **MS3204:**  
Input Voltage: 5.0 VDC ± 10%  
Scan Current: 250 mA typical  
Standby Current: 25 +/- 5mA

**MS3207:**  
Input Voltage: ±5.0 VDC ± 10%  
Scan Current: 250 mA typical  
Standby Current: 45 +/- 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: 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 NO950 ENG60950/  
IEC950

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

Environmental: ROHS-compliant

1 - LED lighting with high AC ripple content can impact scanning performance



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