

# MiniScan

## Symbol MS12XX Series

### FIXED MOUNT SCANNERS

### Superior scanning for fixed-mount, unattended devices

The Symbol MS12XX Series is a compact, durable, industrial fixed mount scanner available in fuzzy (FZY) or wide angle (WA) versions for maximum versatility. The Symbol MS12XX FZY versions feature fuzzy logic for premium scanning on 1D bar codes including poorly printed and low contrast.

The Symbol MS12XX Series is an excellent choice for OEM devices requiring accurate, automated data collection, even in the most demanding environments. It can also be used as a standalone fixed mount scanner.

#### Applications

##### Fixed mount or industrial standalone

Manufacturing and warehousing  
Shipping and receiving  
Library and document tracking

#### Users

Conveyer belts  
Assembly lines

#### OEM

Clinical diagnostics  
Medical instruments  
Gas pumps  
Blood and chemical analysis

Interactive kiosks and ATMs  
Vending and lottery machines  
Gaming equipment  
Turnstiles/Access control

### Plug-and-play installation speeds time to market

Symbol MS12XX scanners feature immunity to ambient light and durable design which combine to deliver premium scanning performance in the most demanding environments. Symbol MS12XX scanners are easy to program and configure, enabling you to shorten your development time and bring your product to market faster—even if you don't have in-house technical resources for scanner integration. With its rugged durable housing, exit window, integrated beeper and multiple interface options, Symbol MS12XX scanners enable 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 about the Symbol MS12XX, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at: [www.symbol.com/ms12xx](http://www.symbol.com/ms12xx)



#### FEATURES

#### BENEFITS

High performance fixed mount scanner with fuzzy logic decode capability

Premium scanning for all 1D bar codes including poorly printed and low contrast symbols

Reads all major 1D symbologies including Reduced Space Symbology®

Enables devices to realize a high first-time read rate for improved productivity

Symbol MS12XX FZY decode range from near contact to over 60 in./152 cm

Flexible decode range for maximum accuracy and efficiency

Symbol MS1207WA features a 60° scan angle

Accommodates wide bar codes at, or near, contact in high-volume scanning applications

Sealed to IP54 standards

Protects against water and dust ensuring reliable performance in rough conditions

Compact rugged, durable housing with integrated beeper, mounting holes, LEDs, decoder and a variety of interfaces

Provides plug-and-play installation to reduce development time and speed up time to market

Integrated beeper with external beeper support

Allows internal or external beeper to be driven depending on application

Automatic, software controlled or manual triggering

Offers flexible control of unattended or hands-free applications

Easy to program simple serial interface (SSI)

Provides fast, simple interface communication with advanced features and functionality between scanner and host

Optional Software Developer's Kit (SDK)

Enables creation of applications using Windows 98, 2000, and XP platforms

Supports 123Scan utility (multi-interface 07 versions only)

Easy to use PC-based utility reduces end-user installation time

Multiple mounting options

Increases development flexibility



**MOTOROLA**

# Symbol MS12XX FZY and WA Specifications

## Physical Characteristics

Dimensions:	1.60 in. H x 2.28 in. W x 2.94 in. D 40.64 mm max. H x 57.91 mm max. W x 74.76 mm max. D
Weight:	4.45 oz. (126 gm)

## Performance Characteristics

Light Source:	Symbol MS12XX FZY: Visible Laser Diode 650 nm Symbol MS1207 WA: Visible Laser Diode 670 nm
Scan Rate:	36 ±5 scans per second (bi-directional)
Scan Pattern:	Linear
Skew (Yaw):	Symbol MS12XX FZY: ± 50° from normal Symbol MS1207 WA: ± 65° from normal
Pitch:	Symbol MS12XX FZY: ± 65° from normal Symbol MS1207 WA: ± 55° from normal
Roll (Tilt):	± 20° from vertical
Minimum Print Contrast:	Symbol MS12XX FZY: Minimum 25% absolute dark/light reflectance measured at 650 nm Symbol MS 1207 WA: Minimum 20% absolute dark/light reflectance measured at 670 nm
Symbologies:	UPC/EAN, Code 128, UCC.EAN128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI, RSS
Programmable Parameters:	Laser On Time, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology types/lengths, Data formatting, Serial Parameters, Beeper Tone, Scan Angle (FZY only)
Interfaces:	Symbol MS1204 FZY: RS 232 Symbol MS1207 FZY: TTL, RS 232, USB, Synapse Symbol MS1207 WA: TTL RS 232, USB, Synapse

## User Environment

Ambient Light:	Artificial Light 450 ft. candles (4,844 Lux) Sunlight 8,000 ft. candles (86,112 Lux)
Operating Temperature:	Symbol MS12XX FZY: -4° to 122°F (-20° to 50°C) Symbol MS1207 WA: 32° to 104° F (0 - 40°C)
Storage Temperature:	Symbol MS12XX FZY: -40° to 158°F (-40° to 70°C) Symbol MS1207 WA: -40° to 140°F (-40° to 60°C)
Humidity:	5% to 95% non-condensing
Power:	Scanning Current: Symbol MS12XX FZY: 160 mA Symbol MS1207 WA: 110 mA Standby Current: 20 mA (Symbol MS1204 FZY) 20 mA (Symbol MS1207 FZY) 40 mA (Symbol MS1207 WA)
Drop:	Unit functions normally after multiple 30 in./76 cm drops to concrete
Environmental Sealing:	IP54

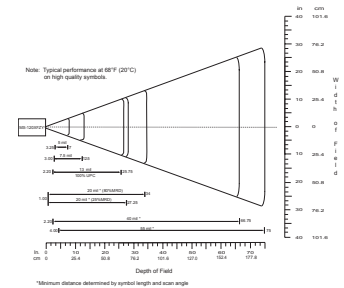
## Regulatory

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

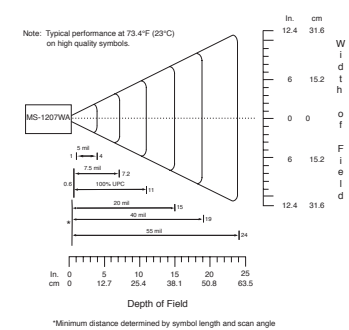
Specifications are subject to change without notice.

For system, product or services availability and specific information within your country, please contact your local Motorola office or Business Partner.

## Symbol MS12XX FZY Decode Zone



## Symbol MS1207 WA Decode Zone



## 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>



**MOTOROLA**

### Corporate Headquarters

**Symbol Technologies,**  
A Motorola Company  
One Symbol Plaza  
Holtsville, NY 11742-1300  
TEL: +1.800.722-6234  
+1.631.738.2400  
FAX: +1.631.738.5990

### For Asia Pacific Area

**Symbol Technologies,**  
A Motorola Company  
(Singapore Branch)  
Asia Pacific Division  
230 Victoria Street #12-06/10  
Bugis Junction Office Tower  
Singapore 188024  
TEL: +65.6796.9600  
FAX: +65.6796.7199

### For Europe, Middle East and Africa

**Symbol Technologies,**  
A Motorola Company  
EMEA Division  
Symbol Place, Winnersh Triangle  
Berkshire, England RG41 5TP  
TEL: +44.118.9457000  
FAX: +44.118.9457000

### For North America, Latin America and Canada

**Symbol Technologies,**  
A Motorola Company  
The Americas  
One Symbol Plaza  
Holtsville, NY 11742-1300  
TEL: +1.800.722.6234  
+1.631.738.2400  
FAX: +1.631.738.5990

### Web Site

For a complete list of Symbol subsidiaries and business partners worldwide contact us at:

[www.symbol.com](http://www.symbol.com)

### E-mail

[info@symbol.com](mailto:info@symbol.com)