



# Symbol LS3408-FZ

Rugged handheld scanner



## FEATURES

### High-performance scanner with fuzzy logic decode capability

Premium scanning for all 1D codes including poorly printed, damaged or low contrast bar codes

### Ergonomic, rugged industrial design withstands up to 50 drops to concrete from 6.5 ft. (2m) and 2,500 3 ft. (1m) tumbles (5,000 hits)

Reduces user fatigue and ensures less down time due to accidental drops

### IP65 sealing rating (electronic enclosure)

Protects against water and dust to ensure reliable performance in harsh industrial conditions

### Bright LED and beeper with adjustable volume

Multiple modes of confirmation ensure positive user feedback in noisy environments

### Reads damaged 1D bar codes for maximum industrial productivity

The rugged Symbol LS3408-FZ handheld scanner from Motorola features fuzzy logic technology for fast and accurate reading of damaged, dirty and poorly printed one-dimensional (1D) bar codes typically found in industrial environments. In the yard, warehouse, distribution center, manufacturing plant or retail store, the Symbol LS3408-FZ handheld scanner offers superior performance, reliability and user-friendly ergonomics to improve productivity. Multiple on-board interfaces ensure flexible plug-and-play host connectivity.

### Advanced data capture technology for tough environments

As innovative as it is rugged, the Symbol LS3408-FZ delivers the ergonomic and operational features for scan intensive industrial applications. Industry-leading impact tests ensure reliable performance in spite of the inevitable accidental drops. The device is impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime

or expensive equipment replacement costs. For applications requiring quick access and convenient storage, the Symbol LS3408-FZ features a built-in metal hook for attachment to a pulley. Two large LED-enhancing windows and extra loud 80 decibel (db) beeper are strategically placed on the scanner to ensure that decode feedback is clearly visible and audible to users.

### Capturing mission-critical information the smart way

The standard range Symbol LS3408-FZ is designed specifically for industrial applications. When you choose the Symbol LS3408-FZ, you receive the added assurance of purchasing from Motorola — a company with proven advanced data capture capabilities and millions of scanner installations worldwide.

For more information on the rugged Symbol LS3408-FZ handheld scanner and the full line of accessories, access our global contact directory at [www.motorolasolutions.com/enterprisemobility/contactus](http://www.motorolasolutions.com/enterprisemobility/contactus) or visit us on the web at [www.motorolasolutions.com/LS3408FZ](http://www.motorolasolutions.com/LS3408FZ)

## SPECIFICATION SHEET

SYMBOL LS3408-FZ  
Rugged handheld scanner

# Symbol LS3408-FZ Specifications

### Bright 650nm laser aiming dot

Delivers clearly visible line for precise, accurate bar code data capture

### Supports GS1DataBar Symbologies (formerly RSS)

Compatibility with emerging symbologies helps you to leverage your hardware investment

### Global Trade Item Number™ (GTIN™) compliant

Decodes and transmits 14-digit GTINs where appropriate

### Advanced data formatting

Eliminates costly modifications to the host software

### Flash memory

Facilitates updates/customization of product in the field

### Universal cable set

Allows for easy replacement and/or upgrades

### Multiple onboard interfaces

Ensures flexible connectivity, allowing for host "future proofing"

### Hands-free Intellistand™ (optional)

Enables presentation scanning and easy switching between hands-free and handheld modes

## Physical Characteristics

Dimensions: 7.34 in. H x 4.82 in. W x 2.93 in. D  
18.65 cm H x 12.25 cm W x 7.43 cm D

Weight (w/o cable): 12.35 oz./350 g

Power Requirements: 4.5 - 14 VDC

Stand-by Current: 50 mA

Power Sources: Depending on host:  
• Host power  
• External power supply

Color: Twilight Black/Yellow

## Performance Characteristics

Scanner Type: Retrocollective

Light Source: 650 nm visible laser diode

Scan Repetition: 36 scans per second typical

Min. Element Width: 5 mil/0.127 mm

Print Contrast: 25% minimum reflective difference

Roll (Tilt):<sup>1</sup> ± 20° from normal

Pitch:<sup>2</sup> ± 65° from normal

Skew (Yaw):<sup>3</sup> ± 50° from normal

Decode Capability: UPC/EAN, UPC/EAN with Supplementals, GS1-128 (formerly UCC/EAN 128), JAN 8 & 13, Code 39, Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, GS1DataBar (formerly RSS)

Interfaces Supported: RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

## User Environment

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

Storage Temp.: -40° to 158° F/-40° to 70° C

Humidity: 5% to 95% relative humidity, non-condensing

Sealing: Sealed to IP65 specifications

Drop Specifications: Unit functions normally after 50 drops to concrete from 6.5 ft. (2m)

\* Minimum distance determined by symbol length and scan angle

Ambient Lighting Tolerance: Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED<sup>4</sup>: 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux)

Electrostatic Discharge: Conforms to 20 kV air discharge and 8 kV of contact discharge

## Regulatory

Input Transient Protection: IEC 1000-4-(2,3,4,5,6,11)

EMI/RFI: FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori

Laser Safety: IEC825-1 CLASS 2

## Warranty

The Symbol LS3408-FZ is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See full warranty for details.

1 - Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise

2 - Pitch: Controlled by dropping or raising the wrist

3 - Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa

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

Depth of Field		
Label Density	LS3408-FZ	
Paper Label	English	Metric
Code 39 – 5 mil	2.50" – 7.25"	6.35 – 18.42 cm
Code 39 – 7.5 mil	2.00" – 15.75"	5.08 – 40.00 cm
100% UPC – 13 mil	1.00" – 24.00"	2.54 – 60.96 cm
Code 39 – 20 mil	0 – 39.50"	0 – 100.33 cm
Code 39 – 40 mil	2.00" – 67.00"	5.08 – 170.18 cm
Code 39 – 55 mil	4.00" – 84.00"	10.16 – 213.36 cm

For more detailed information, please see the Product Reference Guide in the Resource tab at [www.motorolasolutions.com/LS3408FZ](http://www.motorolasolutions.com/LS3408FZ)



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