



# Symbol LS3408-ER

Extended range rugged scanner



## FEATURES

**Flexible working range:**  
0.25" / 0.64 cm to  
45 ft. / 13.7 m

Improves user productivity

**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)**

Ensures maximum reliability with less down time due to accidental drops

**IP65 sealing rating (electronic enclosure)**

Protects against water and dust to ensure reliable performance in rough conditions

**Bright 650nm laser aiming dot**

Delivers clearly visible line for more accurate scanning

**Dual-scan angle switches from standard to wide under software control**

Offers fast, accurate bar code reading on menus and pick lists

## Redefining performance for maximum industrial mobility

The rugged Symbol LS3408-ER handheld scanner from Motorola delivers superior performance and versatility for your scan-intensive industrial applications. In the yard, warehouse, distribution center, manufacturing plant or retail store, the Symbol LS3408-ER handheld scanner offers best-in-class performance, excellent reliability and user-friendly ergonomics to create a more productive mobile environment. Multiple on-board interfaces ensure flexible plug and play host connectivity.

## Advanced data capture features for industrial-grade applications

The Symbol LS3408-ER offers an outstanding reading range, providing the flexibility to enable a wide range of 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-ER features a built-in metal hook for attachment to a pulley. Two large LED-enhancing windows and an extra loud 80 decibel (db) beeper are strategically placed on the scanner for clear and audible feedback to users.

## The smartest way to capture mission-critical information

The extended range Symbol LS3408-ER is designed specifically for industrial applications. When you choose the Symbol LS3408-ER, 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 Symbol LS3408-ER and its full line of accessories, access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus) or visit us on the web at [www.motorola.com/l3408er](http://www.motorola.com/l3408er)

**SPECIFICATION SHEET**

SYMBOL LS3408-ER  
Extended range rugged scanner

# Symbol LS3408-ER Specifications

**Multiple on-board interfaces**

Ensures flexible connectivity, allowing for host “future proofing”

**Advanced data formatting (ADF)**

Eliminates costly modifications to the host software

**Flash memory**

Facilitates updates and customization of product in the field

**Universal cable set**

Allows for easy replacement and/or upgrades

**Supports GS1DataBar Symbologies (formerly RSS)**

Compatible with emerging symbology to leverage your hardware investment

**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): 12.56 oz./356 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: 7.5 mil/0.191 mm

Working Distance: See Decode Zone

Print Contrast: 25% minimum reflective difference

Roll (Tilt):<sup>1</sup> ± 10° from normal

Pitch:<sup>2</sup> ± 65° from normal

Skew (Yaw):<sup>3</sup> ± 60° 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)

Ambient Light Immunity: Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight;  
Indoor: 450 ft. candles/4,84 LUX;  
Outdoor: 4,000 ft. candles/43,040 LUX

Electrostatic Discharge (ESD): 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-ER 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

Depth of Field		
Label Density	LS3408-ER	
Paper Label	English	Metric
Code 39 - 7.5 mil	0.25" - 20.00"	0.64 - 50.80 cm
Code 39 - 10 mil	2.00" - 32.00"	5.08 - 81.28 cm
Code 39 - 15 mil	3.00" - 69.00"	7.62 - 175.26 cm
Code 39 - 20 mil	3.00" - 94.00"	7.62 - 238.76 cm
Code 39 - 55 mil	15.00" - 180.00"	38.10 - 457.20 cm
Reflective Label		
Code 39 - 70 mil	Up to 30 ft.	Up to 9.27 m
Code 39 - 100 mil	Up to 45 ft.	Up to 13.72 m

For more detailed information, please see the Product Reference Guide in the Resource tab at [www.motorola.com/ls3408er](http://www.motorola.com/ls3408er).

