PRODUCT SPEC SHEET
Symbol LS3408-FZ



Symbol LS3408-FZ

Rugged handheld scanner

Reads damaged 1-D bar codes for maximum industrial productivity
The rugged LS3408-FZ handheld scanner features fuzzy logic technology for fast and accurate reading of damaged, dirty and poorly printed one-dimensional (1-D) bar codes typically found in industrial environments. In the yard, warehouse, distribution center, manufacturing plant or retail store, the 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 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 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 LS3408-FZ is designed specifically for industrial applications. When you choose the LS3408-FZ, you receive the added assurance of purchasing from Zebra — a company with proven advanced data capture capabilities and millions of scanner installations worldwide.

For more information on the rugged LS3408-FZ handheld scanner and the full line of accessories, access our global contact directory at www.zebra.com/contact or visit us on the web at www.zebra.com/ls3408fz

Symbol LS3408-FZ Specifications

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

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

ZEBRA

FEATURES

High-performance scanner with fuzzy
Premium scanning for all 1-D 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

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

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):1	± 20° from normal
Pitch:2	± 65° from normal
Skew (Yaw):3	± 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

*** Minimum distance determined by symbol length and scan angle**

Drop Specifications:	Unit functions normally after 50 drops to concrete from 6.5 ft. (2m)
Ambient Lighting Tolerance:	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED4: 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	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 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.zebra.com/ls3408fz

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



Part number PSS-LS3408FZ-A. Printed in USA 04/15.©2015 ZIH Corp. ZEBRA, the Zebra head graphic and Zebra Technologies logo are trademarks of ZIH Corp , registered in many jurisdictions worldwide. SYMBOL is a trademark owned by Symbol Technologies, Inc., which is an indirect wholly owned subsidiary of Zebra Technologies Corporation. All rights reserved. All other trademarks are the property of their respective owners.

ZEBRA TECHNOLOGIES