Spark™ LS 1000

symbol®

Smart Line

BAR CODE SCANNERS

Solid Scanning Performance, Ergonomic Design, and Affordable Pricing Make Symbol Spark the Best Value in its Class

The Symbol Spark LS 1000 Scanner Series is big on performance, but easy on your budget. Part of the Symbol Smart Line scanner family, feature for feature, they're the best "aim-and-shoot" scanners in their class.

Symbol Spark is fast and compact with a working range out to 9 in. (23 cm) on 13 mil symbols. Engineered with the patented Symbol scanning technology and a lightweight ergonomic design, the Symbol Spark LS 1000 brings you Symbol quality and reliability at a price that's within your reach.

Compact, Lightweight Design Boosts Productivity

The Symbol Spark is comfortable to hold and easy to use, even for users with very small hands and wrists. Over extended periods of use, the Symbol Spark's compact, lightweight design helps to minimize operator fatigue. The result is increased productivity for faster customer service at checkout counters and improved stock room and office applications.

The Symbol Spark may be small, but it's built tough. At Symbol, we know the abuse hand-held scanners often have to survive. So we designed the Symbol Spark LS 1000 with a tough, protective housing that can withstand repeated knocks and bumps – even 4 ft./1.2 m "free falls" from countertops to concrete floors.

Look to Symbol Smart Line for Better Performance…and Better Value

The Symbol Spark LS 1000 Scanner Series is engineered to provide the best performance of any laser scanner in its class. When you need an economical scanner that offers good performance and dependability, the Symbol Spark is the superior solution.

Look to Symbol Technologies to provide solid scanning solutions for all your business needs. Anticipating your needs and responding to them has made Symbol Technologies the leader in portable scanning solutions, with millions of scanners and terminals installed worldwide.

To find out how your company's workforce can be more productive using the Symbol Spark LS 1000, visit us at **www.symbol.com/barcode**

Features	Benefits
Optimized laser focusing	**Accurate bar code reading from contact to 9 in. (23 cm) in many symbol sizes and print qualities**
Exclusive Synapse "Smart" Cable	**Connect to many different hosts without need for separate interface controller**
Mylar® scan element	**Unsurpassed scanning performance without friction or wear**
Ergonomic "aim-and-shoot" design	**Easy to use, minimizing operator training**

LS 1000 Scanner Series Specification Highlights

Physical Characteristics

Dimensions:	4.75 in. H x 3.25 in. D x 2.25 in. W/12.1 cm H x 8.3 cm D x 5.7 cm W
Weight:	4.05 to 4.08 oz./115-120 gm
Voltage:	4.75 to 14.5 VDC
Current:	80-100 mA typical
Power Source:	LS1000 – power supplied supplied by interface controller LS1004 – host power or power supply LS1006 – host power with optional power supply
Cable:	Removable 6 ft./1.8 m straight cable

Performance Characteristics

Scanner type:	Bi-directional, retrocollective
Light Source:	650±10 nm laser diode
Scan Rate:	36±2 scans per second
Nominal Working Distance:	Contact to 15 ft./38.1 cm
Print Contrast:	25% minimum reflectance
Pitch:	±60 at 6" on Code 39
Skew:	±65 at 6" on Code 39
Decode Capability:	LS 1004/LS 1006: UPC/EAN, Code 39 full ASC11, Code 128, Code 93, Codabar, Interleaved 2 of 5, Discrete 2 of 5; LS 1000: undecoded

User Environment

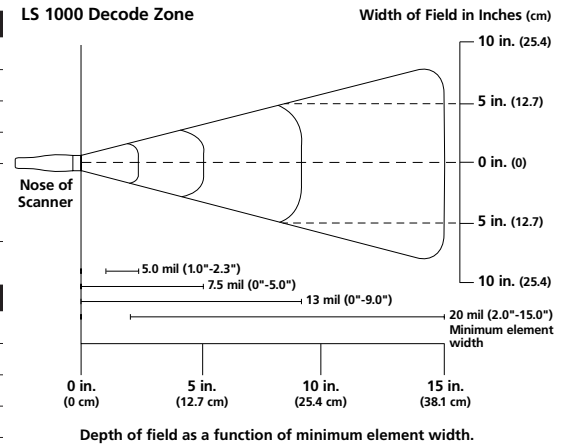|	
Operating Temperature:	32° to 104° F/O° to 40° C
Storage Temperature:	-40° to 140° F/-40° to 60° C
Humidity:	5% to 95% noncondensing
Drop Specification:	4 ft./1.2 m to concrete
Ambient Light Immunity:	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions
Electrostatic Discharge:	Conforms to 15 KV rating per IEC 801-2

Optional Accessories

Desktop/Countertop Stand:	P/N: KT-17491-01
Adjustable Hands-Free Stand:	P/N: 20-31195-01 (LS 1004 only)

Regulatory

Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class A, ICES-003 Class A, European Union EMC Directive, Australian SMA

ⒸN410 CE

CAUTION

LASER LIGHT–
DO NOT STARE INTO BEAM

630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

LS 1000 Decode Zone

Width of Field in Inches (cm)

Nose of Scanner

- 10 in. (25.4)
- 5 in. (12.7)
- 0 in. (0)
- 5 in. (12.7)
- 10 in. (25.4)

5.0 mil (1.0"-2.3")
7.5 mil (0"-5.0")
13 mil (0"-9.0")
20 mil (2.0"-15.0") Minimum element width

0 in. (0 cm)	5 in. (12.7 cm)	10 in. (25.4 cm)	15 in. (38.1 cm)

Depth of field as a function of minimum element width.

Warranty

Symbol's Spark LS 1000 Scanner Series is warranted against defects in workmanship and materials for a period of 60 months from the date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. The Mylar scan element is covered by Symbol's limited lifetime warranty. The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. See the complete warranty for details.

FIVE YEAR PLUS 5+ WARRANTY

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

symbol ®
BUSINESS PARTNER

GM 11/00

symbol ®