

SE 900/SE 923

Miniature High-Performance Scan Engines



SCAN ENGINES

The Smallest, Lightest, and Brightest Scan Engine Available

Building upon Symbol Technologies' heritage of high-performance scan engines, the SE 900 scan engines pack all of the features of the high-performance SE 1200HP scan engine into a form factor that is only 20% of the size and 15% of the weight for the smallest, lightest most powerful scan engine available today.

Packed with Features

The SE 900 delivers the ultimate in scanning performance through a number of features. "Adaptive Logic" technology ensures maximum performance on damaged or poorly printed bar codes. The retro-collective optical design enables scanning distances even in full sunlight. The decoded version, the SE 923 provides flexibility through many programmable parameters, which can be configured via the serial interface, or through scanning bar code menus. In addition, the SE 923 supports UPC/EAN, Code 128, Code 39, Trioptic Code 39, Code 93, Interleaved 2 of 5, Discrete 2 of 5, Codabar and MSI Plessey symbologies. Use of the standard Simple Serial Interface (SSI) communication protocol ensures compatibility with other decoded scan engines from Symbol.

Optimum Ergonomic Design—plus Durability

Measuring just 0.2 cubic inches (3.3 cube cm), the small volume of the SE 900 enables optimum ergonomic design of OEM devices such as handheld computers, medical instruments, diagnostic equipment, lottery terminals, vending machines, robotics, and more. And the SE 900 operates down to 3.3 volts, requiring less battery capacity in device design. Add a die-cast aluminum chassis for immunity to over 2,000 Gs with minimum weight, a wide temperature range, immunity to ambient light and durable design for a scan engine that will perform in the most demanding environments.

Trust Symbol for Embedded Scanning Performance

There are millions of Symbol scan engines installed worldwide. When designing your OEM device, choose the best scan engines for embedded applications requiring real performance advantages—the SE 900 family of scan engines from Symbol Technologies. To find out more about the Symbol OEM advantage, visit www.symbol.com/oem

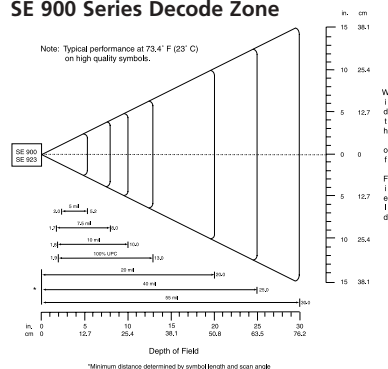


Features	Benefits
SE 923 scan engine is SSI compatible	Provides a migration path to other SSI scan engines with advanced features/functionality
Adaptive Logic Technology	Ensures maximum performance on damaged or poorly printed bar codes
Supports 3.0-5.5 VDC	Minimum power consumption delivers extended life for portable applications
650 nm bright laser diode	Easy to see scan line is suitable for outdoor applications
Compact ergonomic design measures just 0.2 cubic inch	Easily integrates into portable and fixed-mount OEM devices
Working range of 30 in./76.2 cm	Enables advanced long range scanning capability to be added to a variety of OEM devices

SE 900/SE 923 Specification Highlights

Physical Characteristics		SE 900 (Undecoded)	SE 923 (Decoded)
Dimensions:		0.45 in. H x 0.81 in. W x .056 in. D (nominal) 11.4 mm H x 20.6 mm W x 14.2 mm D (nominal)	0.45 in. H x 0.81 in. W x 0.89 in. D (nominal) 1.14 cm H x 2.06 cm W x 2.26 cm D (nominal)
Weight:		< 0.16 oz. / 4.5 g	< 0.21 oz. / 6 g
Performance Characteristics			
Light Source:		Visible Laser Diode 650 nm	Visible Laser Diode 650 nm
Scan Rate:		39 (± 3) scans/sec (bi-directional)	39 (± 3) scans/sec (bi-directional)
Scan Angle:		53° (typical)	53° (typical)
Scan Patterns:		Linear	Linear
Minimum Print Contrast:		Minimum 25% absolute dark/light reflectance measured at 650 nm	Minimum 25% absolute dark/light reflectance measured at 650 nm
Symbologies:			UPC/EAN, Code 128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI Plessey
Programmable Parameters:			Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology types/lengths, Data formatting, Serial Parameters, Beeper Tone, Scan Angle
Interfaces:		10 Position ZIF connector, industry standard output	12 position ZIF connector. Symbol Standard SSI Interface with logic level serial data communications plus trigger, beeper and decode LED signals
User Environment			
Ambient Light			
Artificial:		450 ft. candles (4,844 lux)	450 ft. candles (4,844 lux)
Sunlight:		10,000 ft. candles (107,640 lux)	10,000 ft. candles (107,640 lux)
Operating Temperature:		-4° to 131°F (-20° to 55°C)	-4° to 131°F (-20° to 55°C)
Storage Temperature:		-40° to 140°F (-40° to 60°C)	-40° to 140°F (-40° to 60°C)
Humidity:		5% to 95% noncondensing	5% to 95% noncondensing
Power			
Input Voltage:		3.0 - 5.5 V DC	3.0 - 5.5 V DC
Input Current:		65 mA typical	68 mA @ 3.3V DC
Standby Current:		< 8 µA typical	< 35 mA typical
Shock:		2,000 G	2,000 G
Regulatory			
Laser Classification:		Intended for use in CDRH Class II/IEC Class 2 devices	Intended for use in CDRH/IEC Class 2 devices
Electrical Safety:		UL, VDE, and CUL recognized component	UL, VDE, and CUL recognized component

SE 900 Series Decode Zone



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