SE 1200WA/SE 1223WA

Wide Angle Scan Engines

SCAN ENGINES

Close Contact Scanning for Mobile and Fixed-Mount, High-Volume OEM Applications

The high-performance SE 1200WA Wide Angle Scan Engine from Symbol Technologies brings the benefits of bar code laser scanning to a variety of OEM devices. Now hand-held computers, medical instruments, diagnostic equipment, lottery terminals, vending machines, robotics, and countless other appliances can all be equipped with the leading-edge scanning technology and reliability that is available only from Symbol. The entire SE 1200 Scan Engine Series—including the Wide Angle, Advanced Long Range, Long Range, High Performance and Very High Density models—has been designed to provide the highest scanning performance in the smallest package possible. For added versatility, each engine is identical in size, allowing for fast, cost-effective interchangeability when upgrading or modifying your OEM device for specialized applications.

Wide Ranging Performance for Close-Contact Applications

The SE 1200WA Wide Angle Scan Engine features a broad 53° scan angle to accommodate larger bar codes within extremely close range. The SE 1200WA is ideal for high-volume, near-contact scanning in retail checkout, warehouse and shipping applications. Measuring only 1.15 cubic inch, the SE 1200WA features a compact design to deliver superior performance and durability in a form factor that easily integrates into portable and fixed-mount OEM devices. Reduced laser output power makes the SE 1200WA the Symbol solution of choice when your OEM design requires IEC Class I certification. The SE 1200WA Wide Angle Scan Engine is available in both undecoded and decoded (SE 1223WA) versions; the SE 1223WA's miniature decode PC board features full-sized scanning performance. It decodes all commonly used symbologies and is easily configured using Symbol's "Simple Serial Interface."

Looking for an automatic trigger that works? The SE 1223WA's miniature decode PC board also features a "Blink Mode" for intelligent bar code sensing. Based on Symbol's time-proven designs in handheld scanners such as the LS1800 and LS4000, Blink Mode improves reliability by eliminating the use of object sensors, which can be easily fooled. This programmable trigger mode automatically detects the presence of a bar code in the scanning field of view. The SE 1223WA can be programmed to use Blink Mode by the host via Simple Serial command, or by scanning a parameter bar code to automatically trigger the scan engine for fast and reliable data capture in portable or fixed mount OEM devices.

Features	Benefits
53° scan angle accommodates larger bar codes within extremely close range	Perfect for high-volume, near-contact scanning applications
Reduced laser output power	Ideal for OEM designs requiring IEC Class I certification
Blink Mode for intelligent bar code sensing	Automatically triggers the scan engine for fast and reliable data capture
Compact, ergonomic design measures just 1.15 cubic inch	Easily integrates into portable and fixed-mount OEM devices
SE 1200WA Scan Engine is SSI compatible	Provides a migration path to other SSI scan engines with advanced features/functionality

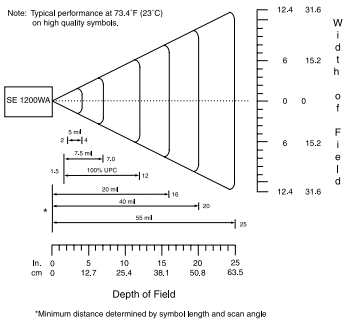
Trust Symbol for Embedded Scanning Performance

Millions of Symbol scan engines are installed worldwide. When designing your OEM device, choose the best scan engine built for peak performance to match your specific needs. The benchmark for quality, Symbol SE 1200 Scan Engines are unmatched for reliability, performance and durability. For more information about Symbol scan engines visit us at **www.symbol.com/oem**

SE 1200WA/SE 1223WA Scan Engine Specifications

Physical Characteristics	SE 1200WA (Undecoded)	SE 1223WA (Decoded)
Dimensions:	0.76 in. max. H x 1.51 in. max. W x 1.0 in. max. D 1.93 cm max. H x 3.84 cm max. W x 2.54 cm max. D	0.76 in. max. H x 1.51 in. max. W x 1.38 in. max. D 1.93 cm max. H x 3.84 cm max. W x 3.51 cm max. D
Weight:	1.19 oz. max. (34 gm max.)	1.33 oz. max. (37.7 gm max.)
Performance Characteristics		
Light Source:	Visible Laser Diode 650 nm	Visible Laser Diode 650 nm
Scan Rate:	35 (± 5) scans/sec (bi-directional)	35 (± 5) scans/sec (bi-directional)
Scan Angle:	53° ± 2°	53° ± 2°
Scan Patterns:	Linear	Linear
Minimum Print Contrast:	Minimum 20% absolute dark/light reflectance measured at 650 nm	Minimum 20% 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 UCC/EAN 128, TriOptic Code 39
Programmable Parameters:		Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology types/lengths, Data formatting, Serial Parameters, Beeper Tone
Interfaces:	8 Pin 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:	8,000 ft. candles (86,112 lux)	8,000 ft. candles (86,112 lux)
Operating Temperature:	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°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 VDC ± 10%	5.0 VDC ± 10%
Input Current:	65 mA typical	120 mA typical
Standby Current:	50 µA max.	100 µA max.
Shock:	2,000 G	2,000 G
Regulatory		
Laser Classification:	Intended for use in CDRH Class II (or Class IIa / IEC Class 1 with software to control the laser duty cycle) devices	Intended for use in CDRH Class II (or Class IIa / IEC Class 1 with software to control the laser duty cycle) devices
Electrical Safety:	UL, VDE, and CUL recognized component laser	UL, VDE, and CUL recognized component laser

SE 1200WA Decode Zone



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