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Expert team | Trust guarantee | 100% satisfaction

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Find the *Microscan MS-9* at our website: *Click HERE*

Meet the world's fastest compact fixed position bar code scanner. Capable of decoding 2,000 scans per second in real time, the MS-911 delivers a decode rate unmatched among small fixed mount scanners. Ideal for high speed applications, the MS-911's superior processing also benefits other applications by providing multiple looks at a given label, which ensures good reads. This versatile scanner reads all standard bar codes as well as OMR (Optical Mark Recognition). Easily integrated into existing machinery, the MS-911's ultra-compact size and shape allow for flexible mounting and positioning. Although designed to meet the requirements of high speed processing, the MS-911 offers broad market appeal to many industries.

MS-911

HIGH SPEED BAR CODE SCANNER

Ultra-High Speed: Processes 2,000 scans per second in real time, delivering superior performance in high throughput applications. The MS-911 can transmit at baud rates of up to 115.2k.

Compact Size: Small size and shape offers great mounting flexibility and easy integration into existing machinery.

Easy Setup: Features Microscan's easy to use ESP™ software with both Windows and Windows NT. ESP™ software provides simple visual setup control commands for configuring parameters such as match code routines, triggering and real-time input/output controls.



Invisible Ink Option: The MS-911 has an option that allows it to detect and read infrared inks which are invisible to the eye.

Preventative Maintenance Features: Internal diagnostic tools monitor operating conditions and send user-defined messages to alert the operator when thresholds have been exceeded.
Diagnostics monitor:

- laser current
- operating temperature
- operating hours
- power-up counts and resets

Real-Time Controls: Includes three opto-isolated programmable outputs and two opto-isolated inputs. Outputs can react on conditions in a read cycle such as No Read, Match, Mismatch, and Good Read. Inputs can trigger the start of a read cycle or a new master input.

Bar Code Symbologies: Reads multiple symbologies, including standard bar codes as well as OMR (Optical Mark Recognition), patent pending.

Performance LEDs: To streamline the setup process, multicolored LEDs, in conjunction with a programmable beeper, provide instant notification of a successful "read." The LEDs also provide a visual read rate test, useful for finding the optimal read distance.

Service Options: Instant software upgrades available through new flash memory option. Users can upgrade scanners by downloading software received via e-mail.

- Installation assistance program
- Training
- On-site service
- Service agreements
- Extended warranty

MICROSCAN®

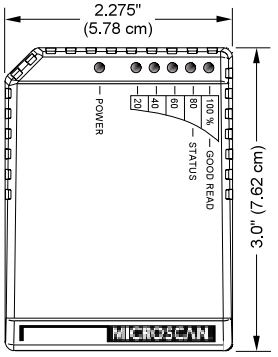
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MS-911 HIGH SPEED BAR CODE SCANNER

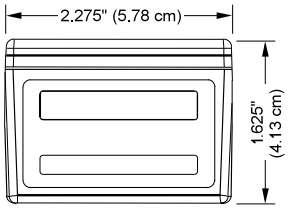
Specifications and Options

MECHANICAL

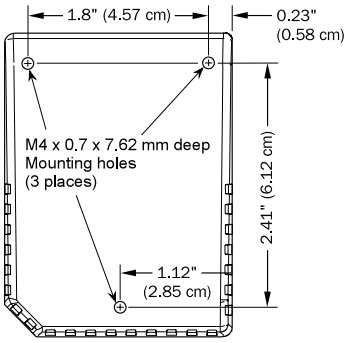
Depth: 3.0" (7.62 cm)
Width: 2.275" (5.78 cm)
Height: 1.625" (4.13 cm)
Weight: 11 oz. (311 g)



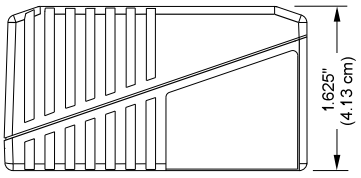
Top View



Front View



Bottom View



Side View

ENVIRONMENTAL

Enclosure rating: IP54
Operating temperature: 0° to 40°C
Humidity: Up to 90% (non-condensing)

LASER LIGHT

Type: Semiconductor visible laser diode (650 nm nominal)
Optional: Invisible ink (685 nm nominal)
Safety class: CDRH Class II

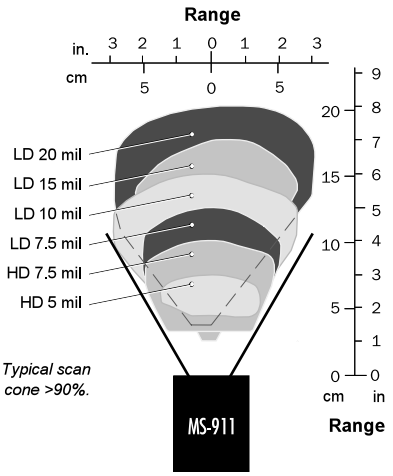
READ RANGES

Narrow-bar-width	Read Range
LOW DENSITY	
.0075" (.191 mm)	2" to 5" (5.1 to 12.7 cm)
.010" (.254 mm)	1.5" to 6" (3.8 to 15.2 cm)
.015" (.381 mm)	1" to 7" (2.5 to 17.8 cm)
.020" (.508 mm)	1.5" to 8" (3.8 to 20.3 cm)
HIGH DENSITY	
.005" (.127 mm)	1.75" to 3" (44 to 7.6 cm)
.0075" (.191 mm)	1.5" to 4" (3.8 to 10.1 cm)

Scan width: 4" (10.16 cm) at 3" (7.62 cm) from exit window of scanner with a 10 mil Code 39 label.

Invisible Ink Option	
.010" (.025 cm)	1.5 to 4.0" (3.8 to 10.1 cm)
.015" (.038 cm)	1.5 to 6.0" (3.8 to 15.2 cm)
.020" (.051 cm)	1.5 to 6.0" (3.8 to 15.2 cm)

Ranges based on Code 39 symbols



COMMUNICATION

Interface: RS-232, RS-422/485, Daisy Chain

SCANNING PARAMETERS

Type: Rotating, single line 9-faceted mirror
Scan/decode rate: 2,000 per second
Scan width angle: 56°
Pitch angle: ±50°
Skew angle: ±40°

PROTOCOLS

Point-to-Point · Point-to-Point w/RTS/CTS · Point-to-Point w/RTS/CTS & XON/XOFF · Point-to-Point w/XON/XOFF · Polling Mode D · Multidrop · User Defined · User Defined Multidrop · DeviceNet

CONNECTOR

Type: 3 ft. cable terminated with a 15-pin D-Sub connector plug

ELECTRICAL

Power requirement: Input 10 to 28 VDC 200 mV p-p max. ripple, 5 watts rated 24 VDC

PIN ASSIGNMENTS

Pin No.	Function
1	10 to 28 VDC (in)
2	Transmit data RS-232/ Transmit (–) RS-422/485 (out)
3	Receive data RS-232/ Receive (–) RS-422/485 (in)
4	Signal ground
5	Trigger ground
6	Aux transmit data RS-232/ Transmit (+) RS-422/485/RTS (out)
7	Programmable output 1 (out)
8	Default (in)
9	Trigger (in)
10	Aux receive data RS-232/ Receive (+) RS-422/485/CTS (in)
11	Programmable output 3 (out)
12	New master (in)
13	Chassis ground
14	Programmable output 2 (out)
15	Output ground

EMISSIONS

Radiated: CISPR22 EN55022:1994 Class A
Conducted: CISPR22 EN55022:1944 Class A

CODE TYPES

Code 39, Codabar, Code 128, I 2 of 5, Code 93, UPC/EAN
Optional: OMR (Optical Mark Recognition), patent pending

INDICATORS

Beeper: Good read, Match/Mismatch, Noread, On/Off
LEDs: 1 status, 1 power, 5 read performance (representing percentage of good decodes)

SAFETY CERTIFICATIONS

CDRH, FCC, UL/cUL, TüV, CE



ISO 9001/Cert. No. US96/0465

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Specifications subject to change. Updates to this specification can be found on our Web site.

Product specifications are given for typical performance at 25°C (77°F) using grade A labels. Some performance characteristics may vary at high temperatures or other environmental extremes.

Warranty–One year limited warranty on parts and labor. Extended warranty available.

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