自动识别条码扫描仪

MS-9

高速 条码扫描器

MS-9 扫描器所具备的解码速度 是其他小型固定式扫描器所无法比拟的。MS-9 的卓越处理特性可对指定的标签进行多重扫描，从而确保数据的完整性。MS-9 还带有 OMR（光学标志辨识）功能。

MS-9 是非常适合进行高速处理的理想扫描器。

MS-9: 简介

- 每秒解码次数：最多 2000 次
- 读取范围：1 至 9 英寸（25 至 229 毫米）
- OMR 读取
- IP54 封装

ESP® 简易设置程序：单点软件为所有 Microscan 扫描器提供了迅速简便的设置和配置。

有关详细信息，请访问 www.microscan.com。

超高速扫描
MS-9 每秒可实时处理 2000 次扫描，可在扫描量庞大的实际应用中实现卓越的性能。高解码速度也提供对标签的多次扫描，从而提高数据捕获的准确性。

体积小巧
MS-9 的小巧体积和紧凑外观使其安装灵活，并能轻松地安装到现有的 机器设备中。

预防性维护
内部诊断工具 对运行条件进行监控，并可发送用户定义的消息，以便在超出阈值时对操作员发出警报。

可见指示器
位于扫描器顶部的 LED 指示灯以可见方式确认扫描器的执行情况。

实时控制
输入包括一个触发信号、一个“新主码”输入和一个用于重设计数器或释放输出的可编程输入。输出可通过设置在若干条件下激活，包括匹配代码和诊断操作。

应用实例
- 文档处理
- 药品
- 包装
- 印刷

MS-9: 可读码

线性条码 所有标准

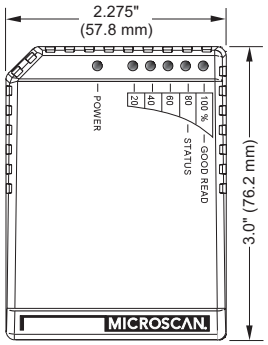
堆栈标签 GS1 Databar 码

MICROSCAN®

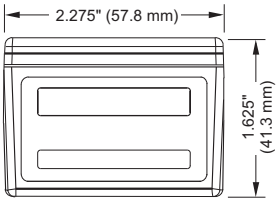
MS–9 Scanner Specifications and Options

MECHANICAL
Depth: 3.0" (76.2 mm)
Width: 2.275" (57.8 mm)
Height: 1.625" (41.3 mm)
Weight: 11 oz. (311 g)

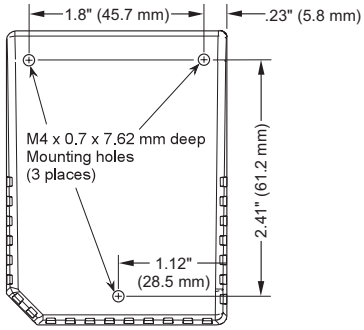
Top View



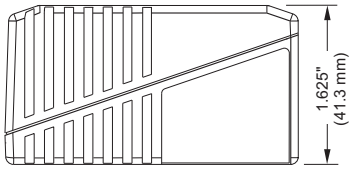
Front View



Bottom View

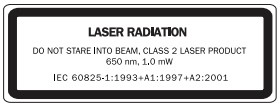


Side View



ENVIRONMENTAL
Enclosure Rating: IP54
Operating Temperature: 0°C to 40°C
Storage Temperature: –50°C to 75°C
Humidity: Up to 90% (non-condensing)

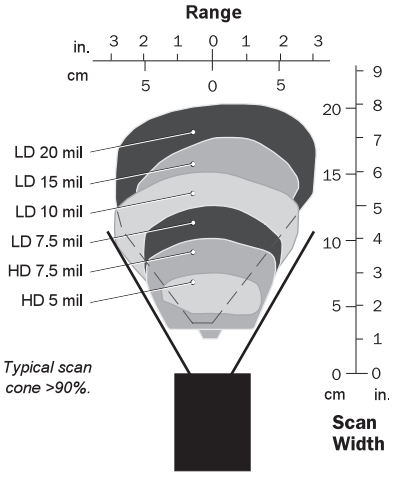
LASER LIGHT
Type: Semiconductor visible laser diode (650 nm nominal)
Safety Class: CDRH Class II



READ RANGES

Narrow-Bar-Width	Read Range
LOW DENSITY	
.0075" (.191 mm)	2" to 5" (51 to 127 mm)
.010" (.254 mm)	1.5" to 6" (38 to 152 mm)
.015" (.381 mm)	1" to 7" (25 to 178 mm)
.020" (.508 mm)	1" to 9" (25 to 229 mm)
HIGH DENSITY	
.005" (.127 mm)	1.75" to 3" (44 to 76 mm)
.0075" (.191 mm)	1.5" to 4" (38 to 101 mm)

Scan width: 4" (101.6 mm) at 3" (76.2 mm) from exit window of scanner with a 10 mil, Code 39 label.



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

SCANNING PARAMETERS
Mirror Type: Rotating, single line 9-faceted mirror
Optional Raster: 9 raster lines over a 2° arc
Scan 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 · Daisy Chain

CONNECTOR
3 ft. (914.4 mm) cable terminated with a high density 15-pin D-Sub plug connector

ELECTRICAL
Power Requirement: 10–28 VDC, 200 mV p-p max ripple, 185 mA at 24 VDC (typ.)

DISCRETE I/O
Inputs: Optoisolated Trigger and New Master/OMR, 4.5–28 VDC rated, (12 mA at 24 VDC)
Outputs (1, 2, 3): Optoisolated 1–28V rated (I_{CE} <100 mA at 24 VDC, current limited by user)

PIN ASSIGNMENTS

Pin No.	Host RS-232	Host/Aux RS-232	Host RS-422/485	In/Out
1	Power +10 to 28 VDC			In
2	Host TxD	Host TxD	TxD(–)	Out
3	Host RxD	Host RxD	RxD(–)	In
4	Power/Signal Ground			
5	Trigger (–)			In
6	RTS	Aux TxD	TxD(+)	Out
7	Ouput 1 (+)			Out
8	Default configuration[a]			In
9	Trigger (+)			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 (+)			In
12	New Master/OMR			In
13	Chassis ground[b]			
14	Output 2 (+)			Out
15	Outputs 1,2,3 (–)			Out

a. The default is activated by connecting pin 8 to ground pin 4.
b. Chassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return.

CE MARK
General Immunity for Light Industry: EN 55024: 1998 ITE Immunity Standard
Radiated and Conducted Emissions of ITE Equipment: EN 55022:98 ITE Disturbances

SYMBOLOGIES
Code 39, Codabar, Code 128, I 2 of 5, Code 93, UPC/EAN, GS1 Databar (Linear and Stacked)
Optional: Patented OMR (Optical Mark Recognition) or Pharmacode

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

SAFETY CERTIFICATIONS
CDRH, FCC, UL/cUL, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

Read Range and other performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25° C environment. For application-specific Read Range results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. **Warranty–**For current warranty information on this product, please visit www.microscan.com/warranty.

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