

MS-2



小巧的外形/体积

图示实际尺寸

高: 0.85" (21.6 mm)

宽: 1.75" (44.5 mm)

长: 1.75" (44.5 mm)

广阔的扫描角度



MS-2: 简介

- 每秒扫描次数: 最多 530 次
- 读取范围: 0.8 至 12.8" (20 至 325 mm)
- 5 V 低电压供电
- IP54 封装
- 提供四种标准型号



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。

超小型 CCD 阅读器

使用方便的 MS-2 是一种全套化的 CCD 阅读器, 可方便地进行整合, 并提供数种配置, 可满足多种需求。先进的 CCD 技术结合世界领先的算法, 可确保对已损坏的小面积条码或印刷模糊的条码进行快速而精准的解码。

高性能与灵活性使得 MS-2 CCD 成为读取难以辨认的条码最理想的嵌入式阅读器。

体积小巧, 机身轻盈

这种阅读器尺寸为 1.75 英寸 (44.5 毫米)

的方形底面乘 0.85 英寸

(21.6 毫米) 高, 重量不到 2 盎司 (57 克), 便于安装到自动化设备或置于狭小的空间中。

可见指示器

阅读器顶部的发光 LED 灯可以为阅读器的工作状态提供视觉指示。

多功能性

高低密度扫描角度型号, 加上标准的和直角的配置, 便于灵活配置于多种应用环境中。

读取性能

MS-2 CCD 能轻松读取最难以辨认的条码, 且非常适合在强反光表面上进行读取。

应用实例

- 临床仪器
- 银行 ATM
- 停车场
- 收款机终端
- 机器人技术

MS-2: 可读码

线性条码

所有标准



堆栈标签

GS1 Databar 码

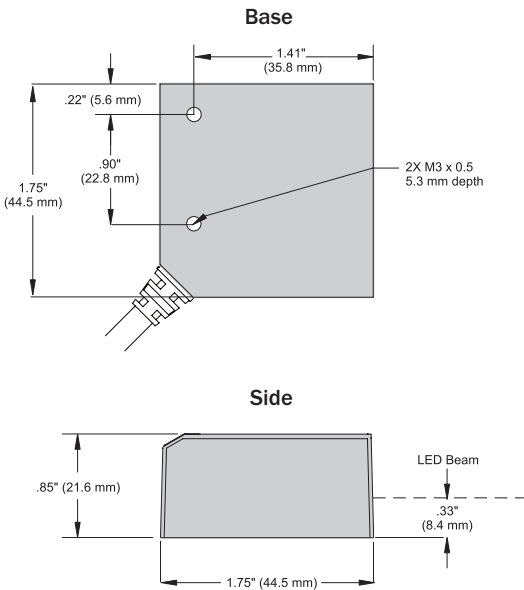


PDF417



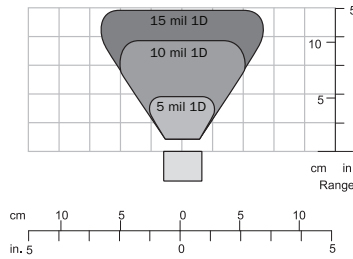
MICROSCAN®

MS-2 CCD READER SPECIFICATIONS AND OPTIONS

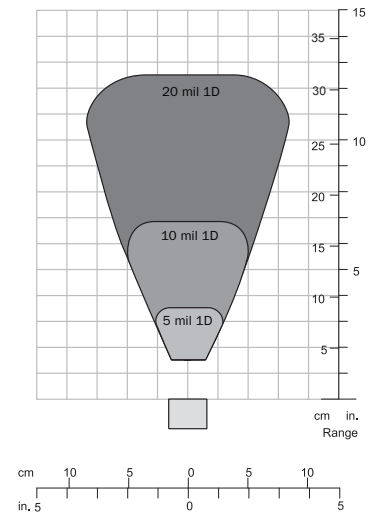


Note: Nominal dimensions shown. Typical tolerances apply.

HIGH DENSITY FIELDS OF VIEW



LOW DENSITY FIELDS OF VIEW



MECHANICAL

Height: 0.85" (21.6 mm)
Width: 1.75" (44.5 mm)
Length: 1.75" (44.5 mm)
Weight: 2 oz. (57 g)

DESIGN

Flash Memory Sensor:
 CCD linear image sensor
Optics: 660 nm visible LED
 Bright and sharp scan line

SCANNING PERFORMANCE

Scan Rate: Up to 530 per second
Decode Rate: Up to 55 per second
Min. X Dimension: Down to 3.3 mil (0.084 mm) on Code 39
Depth of Field: 0.8 to 12.8" (20 to 325 mm)
Barcode Width: Up to 7" (178 mm) on 20 mil (0.5 mm) resolution code

COMMUNICATION

Interface: RS-232, USB 1.1 (keyboard mode only); Note: Virtual comm. is not supported

Electrical

Power: 5V +/-5%, 300 mV p-p max ripple, 150 mA @ 5 VDC (typ.)
Start Up Time: 175 ms

SYMBOLOGIES

UPC (E&A), EAN, Code 39, Code 128, UCC EAN 128, I 2 of 5 (Interleaved, Industrial and Standard), Codabar, Code 93, Plessey, GS1 Databar, PDF417, China Postal Code

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: -20 to 50° C (-4 to 122° F)
Storage Temperature: -30 to 60° C (-22 to 140° F)
Relative Humidity: 20% to 85% (non-condensing)
Ambient Light: Works in any lighting conditions, from 0 to 70,000 lux
Shock: 2000G
Vibration: 50G r.m.s

CABLE AND CONNECTOR

Type: 3 ft. cable terminated with 15-pin HD D-sub socket or USB type A connector

PIN ASSIGNMENTS

15-PIN HD D-SUB SOCKET CONNECTOR

Pin No.	Decoded Operation	In/Out
1	VCC	In
2	TXD	Out
3	RXD	In
4	GND	
5	N/C	
6	RTS	Out
7	Beeper	Out
8	N/C	
9	Trigger	In
10	CTS	In
11	USB D (-)	I/O
12	N/C	
13	Chassis GND	
14	USB D (+)	I/O
15	N/C	

CE MARK

Immunity Designed For:
 EN 55024:98 ITE Immunity Standard
Radiated and Conducted Emissions Designed For:
 EN 55022:98 ITE Disturbances Class B

DISCRETE I/O

Trigger Input: 0.0 - 5.0V (Active low)
RS-232 Inputs: +/- 15V
Signal Outputs:
 Beeper/USB Drive: 4.7 to 5.0V max (High state—4mA source/4mA sink max)
 RS-232 Outputs: +/- 5.0V typ.



READ RANGES

Narrow-Bar	Read Range	Scan Width
HIGH DENSITY		
.005" (0.127 mm)	0.4 to 1.9" (10 to 48 mm)	2.2" (56 mm) @ 1.4" (36 mm)
.010" (0.254 mm)	0.4 to 3.9" (10 to 99 mm)	4.3" (109 mm) @ 3.0" (76 mm)
.015" (0.38 mm)	0.4 to 4.9" (10 to 124 mm)	5.0" (127 mm) @ 4.3" (109 mm)
LOW DENSITY		
.005" (0.127 mm)	1.6 to 3.4" (36 to 84 mm)	2.2" (56 mm) @ 2.8" (71 mm)
.010" (0.254 mm)	1.6 to 6.8" (36 to 188 mm)	3.9" (99 mm) @ 5.8" (147 mm)
.020" (0.508 mm)	1.6 to 12.4" (36 to 325 mm)	6.7" (170 mm) @ 10.8" (274 mm)

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

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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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