

MS-4Xi



超紧凑型以太网成像仪

MS-4Xi 采用了体积十分小巧的广角光学元件，以便提供最宽的视野，用于读取近距离的任何条码。通过X-Mode技术确保实现出色的解码，该技术可以读取直接部件标记以及损坏或难以辨认的条码，而无需配置或设置。

简易设置和高级解码使得MS-4Xi 成为了理想的成像仪，几乎能在任何自动化环境中实现可靠读取。



MS-4Xi: 简介

- 解码 / 秒: 最多10
- X-Mode解码技术
- 集成以太网连接
- 10到30VDC



ESP® 简易设置程序: 单点软件解决方案为所有 Microscan 阅读器提供迅速、简便的设置和配置。



EZ 按钮: 此按钮可以无需计算机而执行阅读器的设置和配置操作。



可见指示灯: 性能指示灯包括“有效读取”的绿色闪光和 LED 指示灯。

有关本产品的详细信息，请访问 www.microscan.com。

X-Mode技术

我们拥有专利的X-Mode技术可以在任何应用中对MS-4Xi 进行简单的设置和部署。除了可靠的解码损坏或难以辨认的线性条形码及二维符号之外，MS-4Xi 还采用了先进的解码算法，用以读取多种直接部件标记。

小巧轻便

MS-4Xi 是全球最小的高性能成像仪。其小巧的体积能够灵活放置在狭小空间中。轻便耐用的镁合金外壳重量不足2 oz (约56.7g)。

安装灵活性

MS-4Xi 紧凑的外形、转角棱镜可选和转角线缆节省了立方空间，可以在仪器和设备中形成最紧密的贴合。

嵌入式以太网

包括了集成的以太网TCP/IP，用于工业连接和高速通信。

宽视野

MS-4Xi 拥有一个极宽的视野，可以读取最近1" (25 mm) 的线性条形码或二维符号。

应用示例

临床仪器

- 嵌入式条形码读取
- 样本跟踪和小瓶读取

医疗设备

- 在产品上进行针式打标或激光打标

电子设备

- 在印刷电路板、柔性电路上进行激光打标

- 子装配跟踪

半导体

- 包装和部件上的激光标记

MS-4Xi: 可读码

线性码

所有标准



邮政编码



堆栈码

MicroPDF 码



PDF417 码



GS1 Databar 码



二维标签

数据矩阵



QR 码



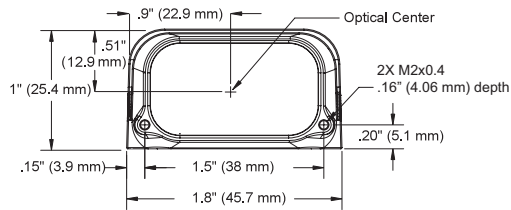
Micro QR 码 Aztec 码



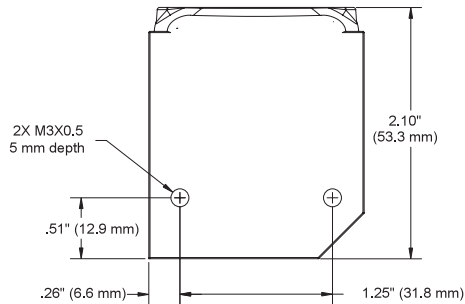
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MS-4Xi IMAGER SPECIFICATIONS AND OPTIONS

Front

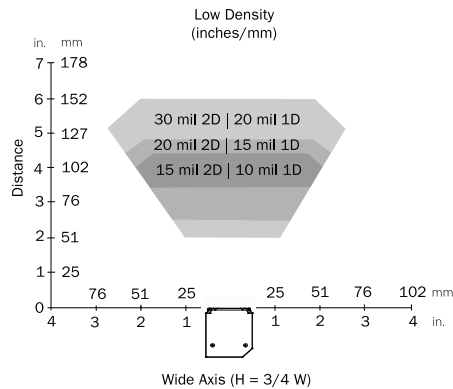


Base



Note: Nominal dimensions shown. Typical tolerances apply.

READ RANGES (GRAPHS AND TABLES)



Narrow-bar-width		Field of View (width)*	Read Range
1D	2D	(maximum)	
Standard Density			
.0075" (0.19 mm)	.010" (0.25 mm)	2.4" (61 mm)	2 to 4.0" (51 mm to 102 mm)
.010" (0.25 mm)	.015" (0.38 mm)	2.6" (66 mm)	1.7 to 4.7" (43 mm to 119 mm)
.015" (0.38 mm)	.020" (0.51 mm)	2.8" (71 mm)	1.4 to 5.2" (36 mm to 132 mm)
Low Density			
.010" (0.25 mm)	.015" (0.38 mm)	4.2" (107 mm)	3.5 to 4.5" (89 mm to 114 mm)
.015" (0.38 mm)	.020" (0.51 mm)	4.5" (114 mm)	2.7 to 5.0" (69 mm to 127 mm)
.020" (0.51 mm)	.030" (0.76 mm)	5.5" (140 mm)	2.0 to 6.0" (51 mm to 152 mm)

*Height is 75% of width.

Note: Specifications subject to change.

MECHANICAL

Height: 1" (25.4 mm) **Width:** 1.80" (45.7 mm)
Depth: 2.10" (53.3 mm) **Weight:** 3.2 oz. (91 g)

ENVIRONMENTAL

Enclosure: IP54 (category 2)
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: -50° to 75° C (-58° to 167° F)
Humidity: up to 90% (non-condensing)

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

LIGHT SOURCE

Type: High output LEDs



LIGHT COLLECTION OPTIONS

Progressive scan, square pixel.
Software adjustable shutter speed,
electronic shutter
VGA: 640 by 480

SYMBOLGY TYPES

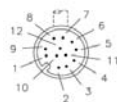
2D Symbolgies: Data Matrix (ECC 0-200),
QR Code, Micro QR Code, Aztec Code
Stacked Symbolgies: PDF417, Micro PDF417,
GS1 Databar (Composite & Stacked)
Linear Barcodes: Code 39, Code 128, BC 412,
I2 of 5, UPC/EAN, Codabar, Code 93,
Pharmacode, PLANET, PostNet, Japanese Post,
Australian Post, Royal Mail, Intelligent Mail, KIX

READ PARAMETERS

Pitch: ±30° **Skew:** ±30° **Tilt:** 360°
Decode Rate: Up to 10 decodes per second

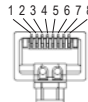
PIN ASSIGNMENTS

M12 12-Pin Plug:



9	Host Rx/D
10	Host Tx/D
2	Power
7	Ground
1	Trigger
8	Input Common
3	Default
4	New Master
5	Output 1
11	Output 2
6	Output 3
12	Output Common

RJ45 Plug:



1	TX (+)
2	TX (-)
3	RX (+)
4	NC
5	NC
6	RX (-)
7	NC
8	NC

CONNECTOR

Dual Cable: 6 ft. industrial Ethernet cable with RJ45 plug; and 3 ft. cable with M12 plug

INDICATORS

LEDs: Read Performance, Power, Read Status
Green Flash: Good read
Blue V: Symbol locator
Beeper: Good read, match/mismatch, no read,
serial command confirmation, on/off

COMMUNICATION INTERFACE

Interface: RS-232 and Ethernet

ELECTRICAL

Power: 10-30 VDC, 200 mV p-p max. ripple,
132 mA @ 24 VDC (typ.)

DISCRETE I/O

Trigger Input, New Master: Bi-directional, optoisolated, 4.5-28V rated (10 mA at 28 VDC)
Outputs (1, 2, 3): Bi-directional, optoisolated, 1-28V rated, (I_{ce} <100 mA at 24 VDC, current limited by user)

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, UL/cUL, CE, CB, Class A

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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