

QX-870



工业光栅 激光扫描器

QX-870 激光扫描器配有最新的条形码读取技术，并可连接至易于使用的条形码追踪、跟踪和控制应用程序解决方案。其特点是易于安装和部署的可编程扫描光栅，可以读取各种位置上的多种条码，即使条码已受损或未对齐。

凭借即插即用设置及最具效率的编码算法，QX-870 成为所有工业应用的理想激光扫描器。

QX-870: 特色一览

- 每秒扫描次数: 300 至 1400 次
- 读取范围: 1 至 30" (25 mm 至 762 mm)
- 可选的嵌入式以太网 TCP/IP 和 EtherNet/IP 协议
- IP65 封装



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: 此按钮可在不使用计算机的情况下，对阅读器进行设置和配置。



可见指示器: 性能指示灯包括“有效读取”时的绿色闪光和 LED 指示灯。



扫描光栅: 此可编程功能使阅读器能扫描不同距离和不同位置的多种标签。



QX 平台: 快速连接系统与 X-Mode 技术相结合，提供简单的连接、网络通信和高性能的解码能力。

有关本产品的详细信息，请访问 info@microscan.com。



快速连接系统

- M12 Ultra-Lock™ 连接器和线缆套件
- 即插即用设置
- 一台或多台扫描器解决方案

X-Mode 技术

- 解码受损、印刷不良或未对齐的码
- 确保高读取率和扫描量

高性能

高效的解码能力，能以长达 10" (25.4 cm) 的光束宽度可靠读取长达 30" (762 cm) 的条码。

以太网协议

QX-870 包含可选的嵌入式以太网 TCP/IP 和 EtherNet/IP 协议，可用于高速通信。

智能光栅

除控制扫描角度和速度之外，具有智能自动调整技术的可编程光栅也是 QX-870 的一大特色。先进的软件可自动调整激光的光栅高度和宽度，使之与条码相匹配，从而可在一个读取周期内可选择地瞄准条码。

应用实例

- 从轻型到重型的各种工业环境
- 自动组装
- 包装和分类
- 电子产品生产
- 机器内部的嵌入式设备

QX-870: 可用码

线性条码

所有标准



堆栈码

MicroPDF 码



PDF417 码



GS1 Databar 码

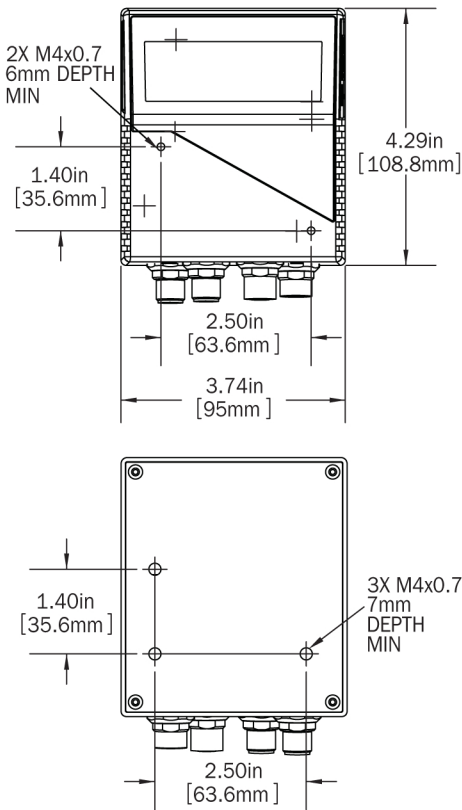


MICROSCAN®

QX-870 INDUSTRIAL RASTER LASER SCANNER
SPECIFICATIONS AND OPTIONS

MECHANICAL

Height: 4.29" (109 mm)
Width 3.74" (95 mm)
Depth: 1.76" (45 mm)
Weight: 16 oz. (453 g)



ENVIRONMENTAL

Enclosure: IP65 rated
Operating Temperature: 0° to 50° C (32° to 122° F)
Storage Temperature: -50° to 75° C (-58° to 167° F)
Humidity: Up to 90% (non-condensing)

EMISSIONS

Heavy Industrial: EN 61000-6-2:2005
Radiated Emissions: EN 55022:2006 Class A 30-1000 MHz
Conducted Emissions: EN 55022:2006 Class A .15-30 MHz

COMMUNICATION INTERFACE

Interface: RS-232/422/485 and/or Ethernet

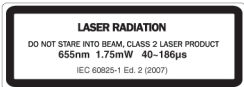
SYMBOLOGIES

Standard: Code 39, Codabar, Code 93, Interleaved 2 of 5, Code 128, PDF417, Micro PDF417, Pharmacode, UPC, GS1 Databar
Applications Standard: UCC/EAN-128, AIAG

LASER LIGHT

Type: Laser diode
Output Wavelength: 655 nm nominal

Operating Life: 50,000 hours @ 25° C
Safety Class: Visible laser: Class 2



ELECTRICAL

Power Requirement: 10-28 VDC, 200 mV p-p max ripple, 270mA at 24 VDC (typ.)

READ RANGES¹

LOW DENSITY RANGE DATA

Table with 2 columns: Narrow-bar-width and Read Range. Rows include .0075", .010", .015", .020", and .040" widths with corresponding read ranges.

MEDIUM DENSITY RANGE DATA

Table with 2 columns: Narrow-bar-width and Read Range. Rows include .0075", .010", .015", .020", and .030" widths with corresponding read ranges.

HIGH DENSITY RANGE DATA

Table with 2 columns: Narrow-bar-width and Read Range. Rows include .0033", .005", .0075", .010", and .015" widths with corresponding read ranges.

¹Ranges based on a Grade A, Code 39 label. If your read range falls outside the above ranges, please call Microscan. Data subject to change.

SCANNING PARAMETERS

Mirror Type: Rotating, 10-faceted
Scan Rate: Adjustable from 300 to 1400 scans/sec.
Scan Width Angle: Typically 60°
Pitch: ±50° max. Skew: ±40° max.
Label Contrast: 25% min. absolute dark to light differential at 655 nm wavelength
Raster Mirror Performance:

Table with 2 columns: Raster sweep angle and Maximum sweeps per second. Rows show angles from 1°-10° to 35°-36° and corresponding sweep rates.

PROTOCOLS

Point-to-Point, Point-to-Point w/RTS/CTS, Point-to-Point w/XON/XOFF, Point-to-Point w/RTS/CTS & XON/XOFF, Multidrop, Daisy Chain, User-Defined Multidrop, Ethernet TCP/IP, EtherNet/IP

PIN ASSIGNMENTS²

Connector A (Serial)
M12 12-pin plug:

Table with 2 columns: Pin Assignment and description. Rows 1-12 list connections like Host Rx/D, Host Tx/D, Power, Ground, Trigger, Input Common, Default, New Master, Output 1-3, and Output Common.

Connector B (Serial)
M12 12-pin socket:

Table with 2 columns: Pin Assignment and description. Rows 1-12 list connections like Tx/D/RTS, Rx/D/CTS, Power, Ground, Trigger, Input Common, Terminated, Input 1, 422/485 Tx/D (+/-), and 422/485 Rx/D (+/-).

Connector P/M (Serial)
M12 12-pin plug:

Table with 2 columns: Pin Assignment and description. Rows 1-12 list connections like N/C, Power, Ground, N/C, N/C, N/C, 422/485 Tx/D (+/-), and 422/485 Rx/D (+/-).

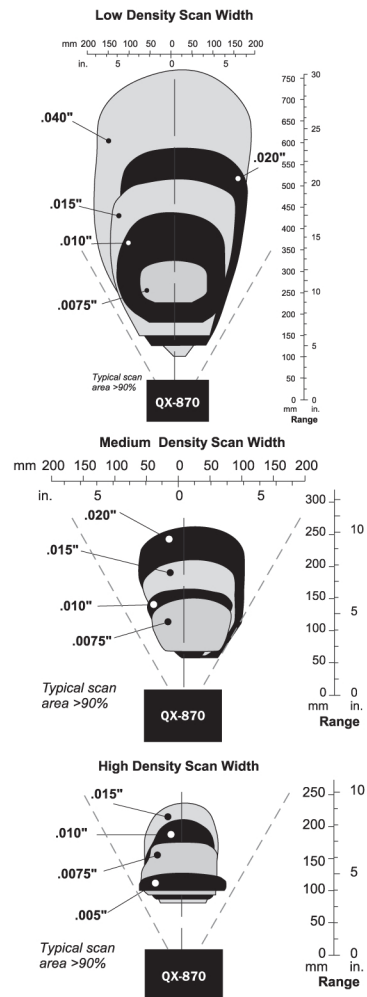
Connector B (Ethernet)
M12 8-pin socket:

Table with 2 columns: Pin Assignment and description. Rows 1-8 list connections like Terminated, TX (-), RX (+), TX (+), Terminated, and RX (-).

Connector T (Trigger)
M12 4-pin socket:

Table with 2 columns: Pin Assignment and description. Rows 1-4 list connections like +10 to 28 V, Trigger/New Master/Input 1 Common, Ground, and Trigger.

²Note: Detailed connector pinout information is available in the User's Manual.



Note: Data subject to change.

DISCRETE I/O

Input 1: (Trigger/New Master): Optoisolated, 4.5-28V rated, (13 mA at 24 VDC) New Master is (-) to signal ground
Outputs (1, 2 & 3): Optoisolated, 1-28V rated, (I_{CE} <100 mA at 24 VDC, current limited by user)

SAFETY CERTIFICATIONS

CDRH, FCC, CE, CB, BSMI (compliant)

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

©2011 Microscan System, Inc. SP056E 02/11
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-One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration.

MICROSCAN®

Microscan Systems, Inc. 公司
电话: +1 425 226 5700 / 800 251 7711
传真: +1 425 226 8250

Microscan 亚太有限公司
电话: +65 6846 1214
传真: +65 6846 4641

Microscan 上海
电话: +86 21 61133688 / 传真: +86 21 61133788
Microscan 广州
电话: +86 20 28873800 / 传真: +86 20 28873848

Microscan 北京
电话: +86 10 59935887 / 传真: +86 10 59935999

www.microscan.com
产品信息: info@microscan.com

自动识别支持: helpdesk@microscan.com

视觉支持: visionsupport@microscan.com

NERLITE 支持: nerlitesupport@microscan.com