

Microscan QX-870

Industrial Raster Laser Scanner



\$1550.00

In Stock

Qty Available: 4

Used and in Excellent Condition

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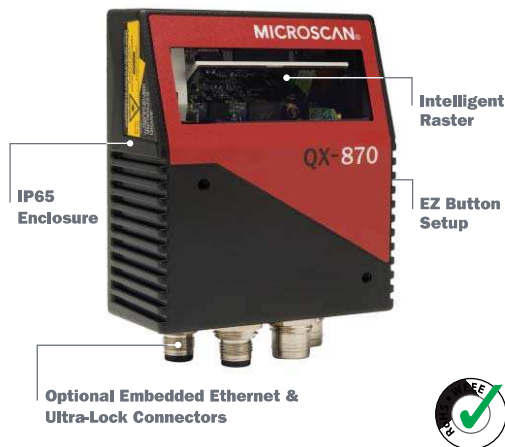
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QX-870



Industrial Raster Laser Scanner

The QX-870 laser scanner partners the latest technologies in barcode reading and connectivity into an easy to use solution for barcode track, trace and control applications. Simple to set up and deploy, it features a programmable sweeping raster to read multiple codes, in varying locations, even if they are damaged or mis-aligned.

With plug and play setup and the most aggressive decode algorithms available, the QX-870 an ideal laser scanner for any industrial application.

QX-870: At a Glance

- Scans/second: 300 to 1400
- Read Range: 1 to 30" (25 to 762 mm)
- Optional Embedded Ethernet TCP/IP & EtherNet/IP
- IP65 Enclosure



ESP® Easy Setup Program: Single-point software solution provides quick and easy setup and configuration of all Microscan readers.



EZ Button: This performs reader setup and configuration with no computer required.



Visible Indicators: Performance indicators include "good read" green flash and LEDs.



Sweeping Raster: This programmable feature enables the reader for multiple symbols at varying distances and locations.



QX Platform: Quick Connect system and X-Mode technology combine to provide simple connectivity, networking, and high performance decoding.

For more information on this product, visit www.microscan.com.



Quick Connect System

- M12 Ultra-Lock™ connectors and cordsets
- Plug and play setup
- Single or multi-scanner solutions

X-Mode Technology

- Decodes damaged, poorly printed, or mis-aligned codes
- Ensures high read rates and throughput

High Performance

Aggressive decoding capabilities allow reliable reading of barcodes out to 30" (762 mm), at up to a 10" (254 mm) beam width.

Ethernet Protocols

The QX-870 includes optional embedded Ethernet TCP/IP and EtherNet/IP for high speed communication.

Application Examples

- Any industrial environment from light to heavy duty
- Automotive assembly
- Packaging and sortation
- Electronics production
- Embedded within machinery

Intelligent Raster

In addition to sweep angle and speed controls, the QX-870 features a programmable raster with intelligent auto framing technology. Advanced software will automatically frame the raster height and width of the barcode, allowing selective targeting of codes within a single read cycle.

QX-870: Available Codes

Linear

All Standard



Stacked

MicroPDF



PDF417



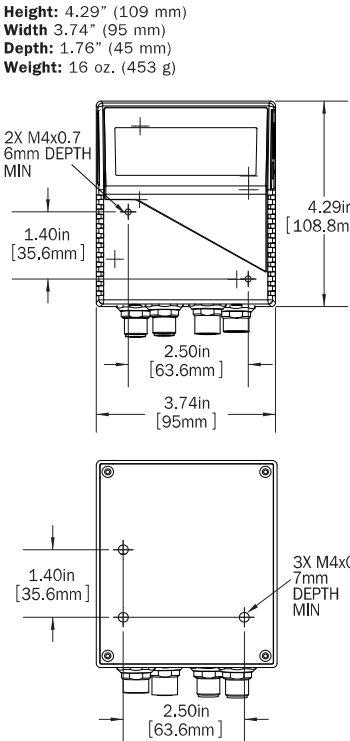
GS1 Databar



MICROSCAN®

QX-870 INDUSTRIAL RASTER LASER SCANNER
SPECIFICATIONS AND OPTIONS

MECHANICAL



ENVIRONMENTAL

Enclosure: IP65 rated
Operating Temperature: 0° to 50° C
Storage Temperature: -50° to 75° C
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

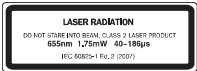
Interface: RS-232/422/485 and/or Ethernet

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 performance for 1°-10°, 11°-20°, 21°-34°, and 35°-36° angles.

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 define pins for Host Rx/D, Host Tx/D, Power, Ground, Trigger, Input Common, Default, New Master, Output 1, Output 2, Output 3, and Output Common.

Connector B (Serial)

M12 12-pin socket:

Table with 2 columns: Pin Assignment and Description. Rows 1-12 define pins for Tx/D/RTS, Rx/D/CTS, Power, Ground, Trigger, Input Common, Terminated, Input 1, 422/485 Tx/D (+), 422/485 Tx/D (-), 422/485 Rx/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 define pins for N/C, N/C, Power, Ground, N/C, N/C, N/C, N/C, 422/485 Tx/D (+), 422/485 Tx/D (-), 422/485 Rx/D (+), and 422/485 Rx/D (-).

Connector B (Ethernet)

M12 8-pin socket:

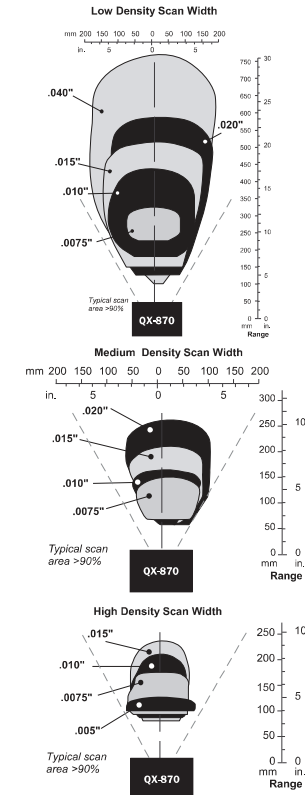
Table with 2 columns: Pin Assignment and Description. Rows 1-8 define pins for Terminated, Terminated, Terminated, TX (-), RX (+), TX (+), Terminated, and RX (-).

Connector T (Trigger)

M12 4-pin socket:

Table with 2 columns: Pin Assignment and Description. Rows 1-4 define pins for + 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

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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-One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration.

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