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so your equipment works exactly as you specify.

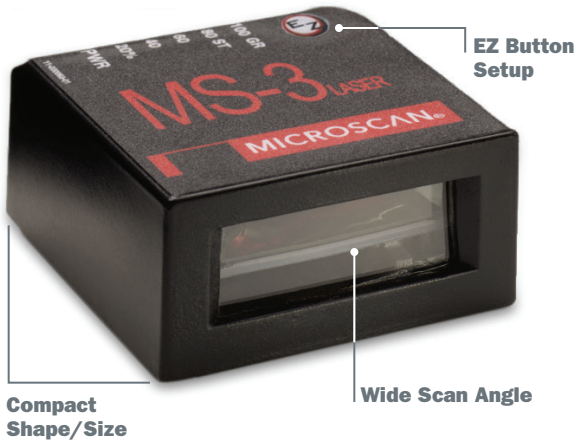
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Microscan MS-3* at our website: *Click HERE*

MS-3



Ultra-Compact Barcode Scanner

The MS-3 laser barcode scanner offers the fastest read performance in embedded compact bar code scanners. The wide scan angle of 70 degrees is coupled with ultra-compact size and flexible mounting.

High performance and flexibility make the MS-3 the optimal choice for reliable reading in embedded instruments.

MS–3: At a Glance

- *Decodes/second: up to 1000*
- *Read Range: 2 to 10" (51 to 254 mm)*
- *Wide Scan Angle*
- *IP54 Enclosure*

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

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

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

Compact & Lightweight
The 1.75" (44.5 mm) square by .85" (21.6 mm) tall scanner weighs only 2 ounces (57 g) for easy mounting onto robotic equipment or into tight spaces.

High Scan Speed
Adjustable scan speed from 300 up to 1000 decodes per second and Microscan's world-class decode algorithms ensure accurate reading every time.

Wide Scan Angle
The wide scan angle of over 70 degrees and a factory customizable focal point add up to space savings within your system, allowing greater flexibility with positioning.

Visible Indicators
Illuminated LEDs on top of the scanner provide visual confirmation of the scanner performance.

Real-time Controls
The inputs include a trigger signal, a "new master" input, and a programmable input for resetting counters or releasing outputs. The outputs can be configured to activate upon a variety of conditions including matchcode and diagnostic operations.

Application Examples
- Clinical instruments
- Bank ATMs
- Parking kiosks
- Point-of-sale terminals
- Robotics

MS–3: Available Codes

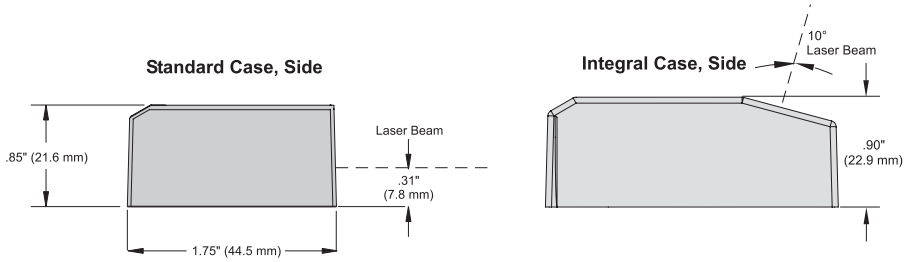
Linear — All Standard

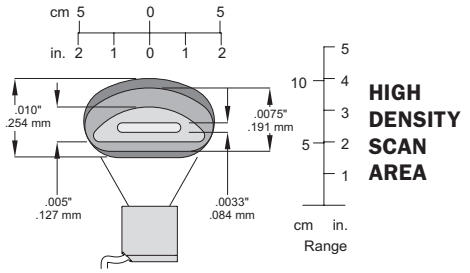
Stacked — PDF417

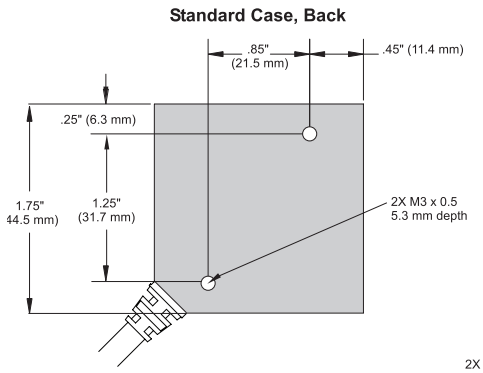
MICROSCAN®

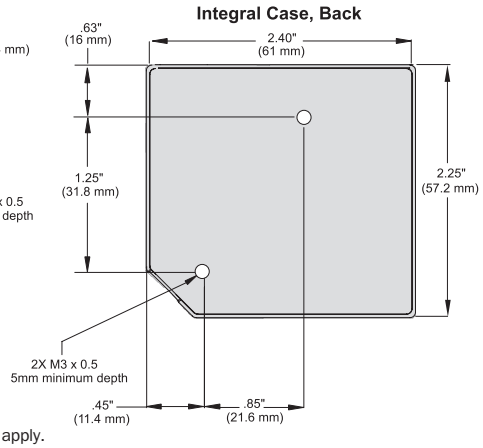
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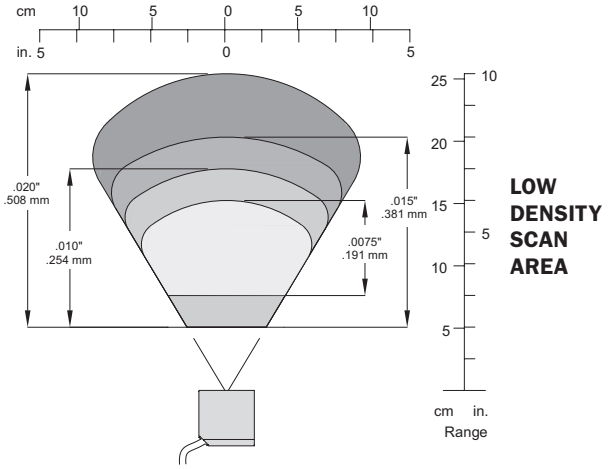
MS–3 Barcode Scanner Specifications and Options











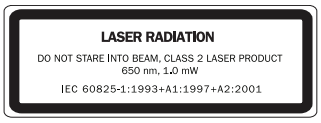
Note: Nominal dimensions shown. Typical tolerances apply.

MECHANICAL
Weight (Standard): 2 oz. (57 g)
Weight (Right Angle): 2.8 oz. (87 g)

ENVIRONMENTAL
Housing: IP54 (category 2)
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)
Operating Life: 40,000 hours at 25° C

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

LASER LIGHT



Type: Semiconductor visible laser diode (650 nm nominal)
Safety Class: CDRH Class II, 1.0 mW max.

COMMUNICATION
Interface: RS-232, RS-422/485 (up to 115.2k), Keyboard Wedge, USB

PROTOCOLS
Point-to-Point · Point-to-Point w/RTS/CTS · Point-to-Point w/XON/XOFF · Point-to-Point w/RTS/CTS & XON/XOFF · Polling Mode D · Multidrop · User Defined · User Defined Multidrop · Daisy Chain

SCANNING PARAMETERS
Options: single line, fixed raster
Optional Raster: 7 raster lines over 1.5° arc (or 0.30" raster height at 4.5" [114 mm] distance)
Scan Rate: Adjustable from 300 to 1000 scans/second, default=500
Scan Width Angle: >70°
Pitch: ±50°
Skew: ±40°
Label Contrast: 25% min. @ 650 nm

HOST CONNECTOR/PIN ASSIGNMENTS
High Density 15 Pin D-sub Socket Connector

Pin No.	Host RS232	Host/Aux RS232	Host RS422/485	In/Out
1	Power +5 VDC			In
2	TxD	TxD	TxD(–)	Out
3	RxD	RxD	RxD(–)	In
4	Power/Signal Ground			
5	NC			
6	RTS	Aux TxD	TxD(+)	Out
7	Output 1 TTL[a]			Out
8	Default configuration[b]			In
9	Trigger			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 TTL[a]			Out
12	New Master (NPN)			In
13	Chassis ground[c]			
14	Output 2 TTL[a]			Out
15	NC			

a. Can sink 10 mA and source 2 mA.
b. The default is activated by connecting pin 8 to ground pin 4.
c. Chassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return.

CONNECTOR
Type: 3 ft. cable terminated with High Density 15-pin D-Sub socket connector

ELECTRICAL
Power: 5 VDC +/– 5 %, 200 mV p-p max. ripple, 260 mA @ 5 VDC (typ.)

DISCRETE I/O
Trigger Input: 3 to 24V rated (1 mA @ 5 VDC)
New Master: 3 to 24V rated (1 mA @ 5 VDC)
Outputs (1, 2, 3): 5V TTL compatible, can sink 10 mA and source 2mA

SYMBOLOGIES
Code 39, Codabar, Code 128, Interleaved 2 of 5, Code 93, UPC/EAN, Pharmacode, PDF417 (option)

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

READ RANGES

Narrow-bar-width	Read Range
HIGH DENSITY	
.0033" (.084 mm)	2.3" to 2.6" (58 to 66 mm)
.005" (.127 mm)	2" to 3.1" (51 to 79 mm)
.0075" (.191 mm)	1.7" to 3.7" (43 to 94 mm)
.010" (.254 mm)	1.5" to 4" (38 to 102 mm)
LOW DENSITY	
.0075" (.191 mm)	3" to 6" (76 to 152 mm)
.010" (.254 mm)	2" to 7" (51 to 178 mm)
.015" (.381 mm)	2" to 8" (51 to 203 mm)
.020" (.508 mm)	2" to 10" (51 to 254 mm)

Note: For Right Angle option, subtract 0.6" (15 mm) from read range. Read ranges are based upon optimal scan speed for specific symbol density.

QMS CERTIFICATION
www.microscan.com/quality

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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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We buy equipment

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