

MS-1



Forma/tamanho compacto

TAMANHO REAL ILUSTRADO

Altura: 0,45" (11,5 mm)

Largura: 1,26" (32 mm)

Comprimento: 0,94" (24 mm)



Motor de Leitura

O MS-1 é um dos motores de leitura totalmente decodificado mais pequenos e leves da sua classe. Com reduzidas dimensões e um desempenho fiável, provocando um impacto mínimo ao nível do orçamento, disponibiliza gestão de energia integrada, ligação em série bidireccional para uma configuração dinâmica, e versões de alta e baixa densidade.

O MS-1 é o motor de leitura ideal para técnicos de design OEM que procuram uma solução de leitura de códigos de barras integrada, fiável e de preço acessível.

MS-1: Resumo

- Leituras/segundo: até 220
- Intervalo de leitura: 1,0 a 13,0" (25 a 330 mm)
- Low 5V Power Draw



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

Para mais informações, visite www.smallscanners.com.

Compacto e leve

O MS-1 tem uma base de 1,26" (32 mm) por 0,95" (24 mm), e 0,44" (11 mm) de altura. O motor pesa menos de 8,4 g para uma fácil instalação em equipamento robótico ou em espaços exíguos.

Capacidades de leitura

O motor MS-1 consegue ler facilmente os códigos mais difíceis, e apresenta um comportamento excelente na leitura de superfícies reflectoras.

Fácil configuração

O software ESP proporciona uma fácil configuração do MS-1, incluindo disparo seleccionável e definição de símbolos.

Exemplos de aplicação

- Quiosques
- Terminais de pontos de venda
- Caixas Multibanco
- Robótica
- Equipamento clínico

MS-1: Códigos disponíveis

Linear

All Standard



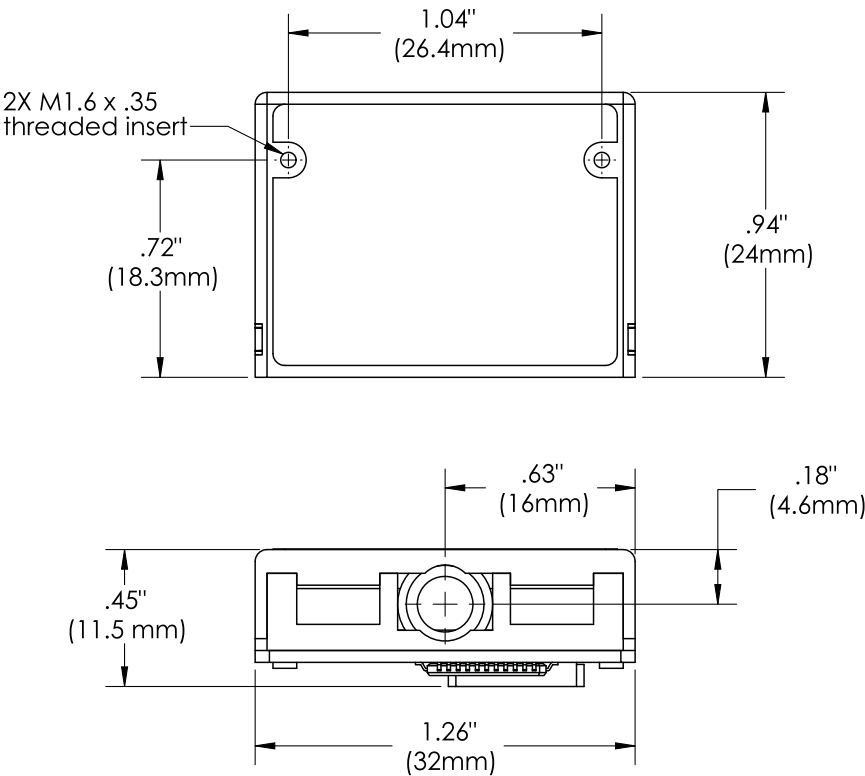
Stacked

GS1 Databar (RSS)



MICROSCAN®

MS-1 SCAN ENGINE SPECIFICATIONS AND OPTIONS



MECHANICAL

Height: 0.45" (11.5 mm)
Width: 1.26" (32 mm)
Length: 0.94" (24 mm)
Weight: 0.3 oz. (8.4 g)

DESIGN

Flash memory sensor:
CCD linear image sensor
Optics: 660 nm visible LED
Bright and sharp scanning line

SCANNING PERFORMANCE

Scan rate: 220 scans/sec
Min. X dimension: Down to 3.3 mil (0.084 mm) on Code 39
Depth of field: 1.0 to 13" (25 to 330 mm)
Bar code width: Up to 7" (178 mm) on 20 mil (0.5 mm) resolution code

COMMUNICATION

Interface: RS-232 TTL

CONNECTOR

Type: 12-pin ZIF connector

SYMBOLOGIES

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

ENVIRONMENTAL CHARACTERISTICS

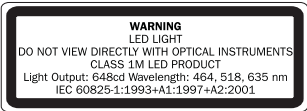
Operating temperature: -20 to 50° C
(-4 to 122° F)
Storage temperature: -20 to 60° C
(-4 to 140° F)
Relative humidity:
20% to 85% (non-condensing)
Ambient light: Works in any lighting
conditions, from 0 to 70,000 lux

HOST CONNECTOR/PIN ASSIGNMENTS
12-Pin ZIF Connector

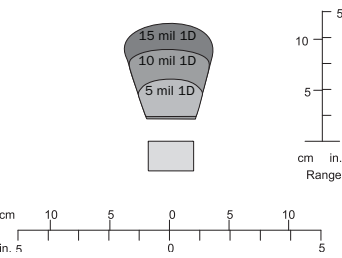
Pin No.	Decoded Operation	In/Out
1	+5 Power VCC	In
2	TTL_RXD	In
3	Trigger input	In
4	Power enable	In
5	TTL_TXD	Out
6	TTL_RTS	Out
7	Ground	
8	Firmward Upload 1	In
9	LED/Buzzer Output	Out
10	TTL_CTS	In
11	Firmware Upload 2	In
12	Reset	In

CE MARK
Immunity designed for:
EN 55-24:1998 ITE Immunity Standard
Radiated and conducted emissions designed for:
EN 55022:98 ITE disturbances class A

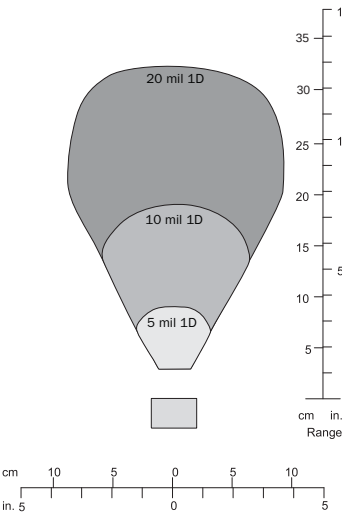
ELECTRICAL
Power: 5V +/-5%, 300 m/V p-p max ripple,
120 mA @ 5 VDC (typ.)



HIGH DENSITY FIELDS OF VIEW



LOW DENSITY FIELDS OF VIEW



READ RANGES

Narrow-Bar	Read Range	Scan Width
HIGH DENSITY		
.005" (.127 mm)	1.1 to 2.3" (28 to 58 mm)	2.0" (51 mm) @ 1.9" (48 mm)
.010" (.254 mm)	1.0 to 3.5" (25 to 89 mm)	2.5" (64 mm) @ 3.1" (79 mm)
.015" (.38 mm)	1.0 to 4.5" (25 to 114 mm)	3.0" (76 mm) @ 3.5" (89 mm)
LOW DENSITY		
.005" (.127 mm)	1.6 to 3.5" (41 to 89 mm)	2.4" (61 mm) @ 3" (76 mm)
.010" (.254 mm)	1.5 to 7.6" (38 to 193 mm)	4.2" (107 mm) @ 6" (152 mm)
.020" (.508 mm)	1.5 to 13" (38 to 330 mm)	7.0" (178 mm) @ 11" (279 mm)

SAFETY CERTIFICATIONS DESIGNED FOR
FCC, UL/cUL, CE



ROHS/WEEE COMPLIANT

ISO CERTIFICATION
Issued by TÜV USA Inc, Member of TÜV NORD
Group, Cert No. 06-1080

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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. Extended warranty available.

MICROSCAN®

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