

Connect Microscan MS-820 Scanner to OMRON PLC



- Decodes/second: 350 to 1100
- Read Range: 1 to 30" (25 to 762 mm)
- High density code reading (3 mil)
- IP65 Enclosure

- The MS-820 scanner provides an integrated decoding solution for linear codes and PDF417 symbols.
- It's easy to use and is available in multiple focal distances.
- Its small size, robust reading and industrial features have established the MS-820 as the standard bar code scanner on the assembly lines of many large manufacturers.
- Includes Microscan's ESP[®] Easy Setup Program, a single-point software solution that provides quick and easy setup and advanced features.
- Features Microscan's world-class decode algorithms to ensure accurate reading every time.

MS-820 Available Codes and Symbols

Linear



Stacked



All of Microscan's Bar Code Readers are RoHS Compliant

MS-820 Read Ranges

Low Density Range Data

Narrow-bar-width	Read Range
.0075" (.191 mm)	10" to 12" (254 to 305 mm)
.010" (.254 mm)	7" to 16" (178 to 406 mm)
.015" (.381 mm)	6" to 19" (152 to 483 mm)
.020" (.508 mm)	5" to 22" (127 to 558 mm)
.040" (1.02 mm)	4" to 30" (102 to 762 mm)

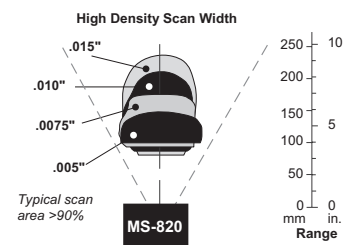
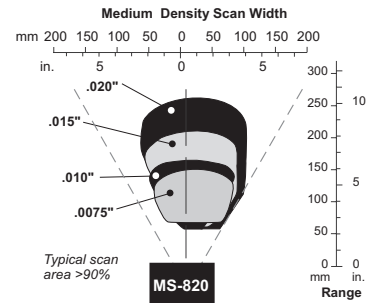
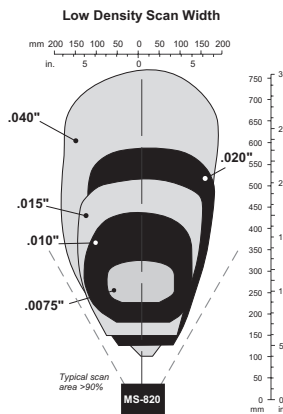
Medium Density Range Data

Narrow-bar-width	Read Range
.0075" (.191 mm)	2" to 5.2" (51 to 132 mm)
.010" (.254 mm)	1.5" to 7.0" (38 to 178 mm)
.015" (.381 mm)	1.5" to 8.5" (38 to 216 mm)
.020" (.508 mm)	1.5" to 11" (38 to 280 mm)
.030" (.762 mm)	1.0" to 12" (25 to 304 mm)

High Density Range Data

Narrow-bar-width	Read Range
.0033" (.084 mm)	Call Omron
.005" (.127 mm)	4" to 5.5" (102 to 140 mm)
.0075" (.191 mm)	3.5" to 6.75" (89 to 171 mm)
.010" (.254 mm)	3.25" to 8" (82 to 203 mm)
.015" (.381 mm)	3.25" to 9" (82 to 228 mm)

*Ranges based on a Grade A, Code 39 label. If your read range falls outside the above ranges, please call Microscan.



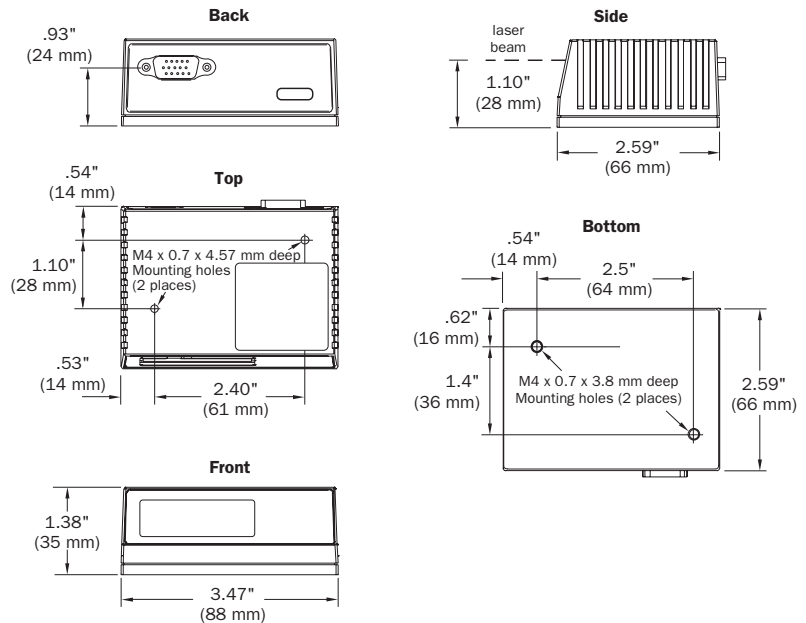
MS-820 Specifications

HOST CONNECTOR PIN ASSIGNMENTS

Type: 15 Pin High Density D-sub. plug

Pin No.	Host RS232	Host & Aux RS232	Host RS422/485	In/Out
1	Power +10 to 28 VDC			In
2	TxD	TxD	TxD (-)	Out
3	RxD	RxD	RxD (-)	In
4	Power/Signal Ground			
5	Trigger (-)			In
6	RTS	Aux TxD	TxD (+)	Out
7	Output 1 (+)			Out
8	Default configuration ^a			In
9	Trigger (+)			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 (+)			Out
12	New Master (+)			In
13	Chassis ground ^b			
14	Output 2 (+)			Out
15	Outputs 1, 2, 3 (-)			Out

a. The default is activated by connecting pin 8 to ground pin 4.
 b. Chassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return.



MS-820 Configuration

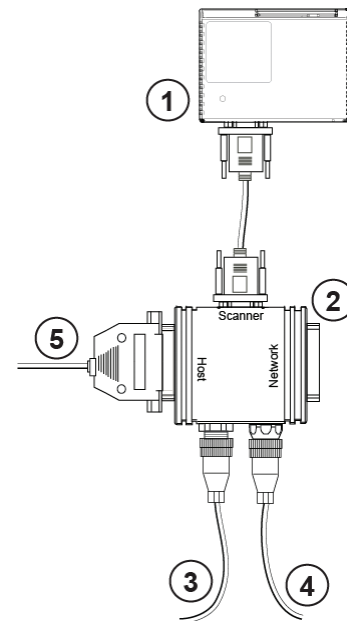
Stand Alone - A single scanner is connected directly to the host. This is the basic setup for a single MS-820.

System Matrix

Ref. #	Part Number	Description
(1)	FIS-820-xxxxG	MS-820 Industrial Scanner
(2)	98-000014-01	Interface box & 6' cable
(3)	S8VS-01524	Power supply, 100~240VAC, 24VDC 15W
(4)	20-610020-01	Power connector for IB-131
	20-610024-01	Trigger connector for IB-131
(5)	61-30026-01	Communication cable
	98-000016-01	Mounting arm/adaptor kit, 6"
	98-000054-01	Mounting stand base, plate-small
	37-000001-01	ESP software/user manuals - CD

Note: If using another communications cable, make certain it does not have RTS/CTS connected to the host.

LASER RADIATION
 DO NOT STARE INTO BEAM, CLASS 2 LASER PRODUCT
 650 NM, 1.0 MW
 IEC 60825-1:1993+A1:1997+A2:2001



OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS • Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron.ca

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ELECTRONICS MEXICO SA DE CV • HEAD OFFICE

Apodaca, N.L. • 52.811.156.99.10 • mela@omron.com