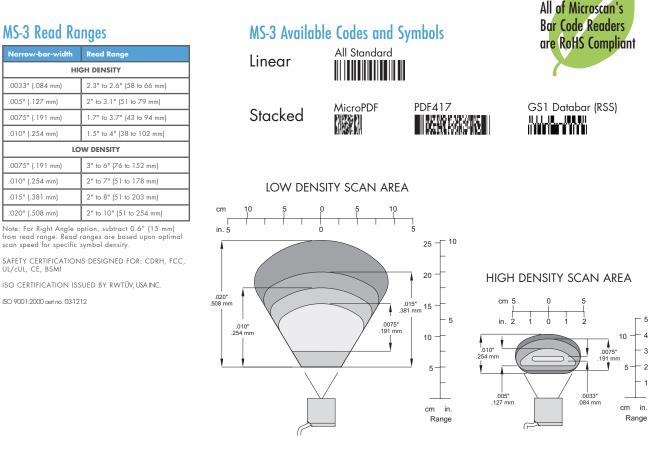
# OMRON

## Connect Microscan MS-3 Laser Scanner to OMRON PLC

- Decodes/second: up to 1000
- Read Range: 2 to 10" (51 to 254 mm)
- Wide Scan Angle
- IP54 Enclosure
- The MS-3 Laser scanner provides an integrated decoding solution for linear codes and stacked symbols.
- It's easy to use and is available in multiple focal distances.
- The MS-3 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.
- Includes Microscan's ESP<sup>®</sup> 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.





#### **MS3 Specifications**

#### HOST CONNECTOR PIN ASSIGNMENTS

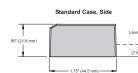
High Density 15 Pin D-sub. socket Connector

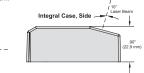
Pin No.	Host R5232	Host & Aux RS232	Host RS422/485	In/Out
1		Power +5 VDC		
2	TxD	TxD	TxD (-)	Out
3	RxD	R×D	R×D (-)	In
4	Power/Signal Ground			
5	NC			
6	RTS	Aux TxD	TxD (+)	Out
7	Output 1 TTL <sup>a</sup>			Out
8	Default configuration <sup>a</sup>		In	
9	Trigger		In	
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 TTL <sup>a</sup>			Out
12	New Master (NPN)			In
13	Chasiss ground <sup>c</sup>			
14	Output 2 TTL <sup>a</sup>			Out
15	NC			

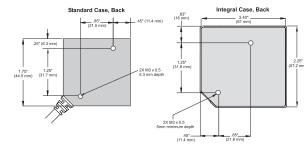
a. Can sink 10 mA and source 2 mA.

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.







### **Connecting to OMRON PLC**

#### **REQUIRED EQUIPMENT**

Ref. #	Part Number	Description	
(1)	FIS-0003-xxxxG	IS-0003-xxxxG MS3 Laser bar code scanner	
	98-000048-01 4" (102 mm) Mounting arm adapter kit		
	98-000054-01 Mounting stand base, plate-small		
	37-000001-01*	ESP software, 1-free per order	
(2)	) XS3F-xxxx-xxx M8 male cable, nM		
	S8VS-01505	Input 100~240VAC, output 5VDC 2A/15w	

#### 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 MEXICO SA DE CV • HEAD OFFICE** 

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

\* Trigger Sensor: Photo, NPN dark-on.

## OMRON

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

MS3DS2 Note: Specifications are subject to change.

High Density 9 Pin D-sub. socker Connector				
Pin No.	Host RS232	In/Out		
1	NC			
2	TXD	Out		
3	RXT	In		
4	NC			
5	NC			
6	NC			
7	NC			
8	NC			
9	Power/Signal Ground			

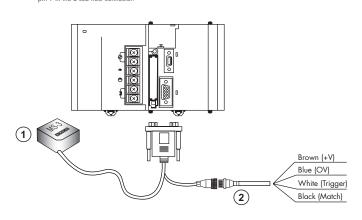
HOST CONNECTOR PIN ASSIGNMENTS

4 Pin PicoChange (M8) Jack Connector

Pin No.	Scanner	In/Out
1	Power +5 VDC <sup>b</sup>	
2	Trigger Input	In
3	0 VDC <sup>c</sup>	
4	Match Output <sup>a</sup>	Out

a. Can sink 10 mA and source 2 mA.

b. Pin 2 on the M8 connector (power terminal) is isolated from pin-6 in the 9-pin D-sub connector. c. Pin 3 on the M8 connector is the Power/Signal Ground. The ground signals are connected to pin 9 in the D-sub host connector.



©2008 Omron Electronics LLC