

# Magnetic Stripe /Bar Code Slot Reader

## Model MCR-1000

### Features

- ◆ Reads both bar code and magnetic stripe in one slot reader
- ◆ Fully decoded; wedge or RS232 interface
- ◆ Choice of reading height for bar codes
- ◆ Multiple mounting options available within one configuration
- ◆ Auxiliary scanner port (optional)
- ◆ Sealed optical system to withstand harsh environments



Opticon combined the best features of its quality bar code readers with a magnetic stripe reader, resulting in a single slot reader that performs both functions.

The two-in-one card reader will read a card or badge with a bar code symbol. It will also read a card with magnetic stripe information. There is no need for the user to indicate the type of card being used. The reader automatically senses which type of information is present.

Combining both functions in a single unit eliminates the need for two separate card readers. This not only saves money, but also saves valuable space at the workstation. In addition, it simplifies user training and eliminates potential confusion.

Using the reader is easy. Simply "swipe" the card through the slot in either direction. The reader is extremely speed

tolerant, and will accept a wide range of swiping speeds.

The design of the reader provides a high degree of flexibility when reading bar codes. For example, an adjustable sensor height allows a bar code to be located almost anywhere on a card. Innovative design of the cable exit location allows the card reader to be easily installed in a variety of ways: on desk or tabletop, side or rear mount.

The reader is fully decoded for both bar code or magnetic stripe information. Either keyboard wedge or RS232 interface is available. The reader can be configured to read magnetic stripe information on ISO Track 1, Tracks 1 & 2 or 2 & 3. An auxiliary external scanner port is available as an option, allowing the use of a second bar code scanning device.



# TECHNICAL DATA

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

MCR-1000 REV. 3/99

## Optical Bar Code

Light Source	LED, $\lambda = 660$ nm Red; 940 nm Infrared
Scan Velocity	6 to 79 in/sec. (150 to 2000 mm/sec.)
Swipe Direction	Bidirectional
Symbologies	WPC, NW-7, Code 39, I 2 of 5, Code 93, Code 128, MSI/Plessey, IATA

## Magnetic Stripe

Scan Velocity	3.9 to 59 in/sec. (100 to 1500 mm/sec.)
Swipe Direction	Bidirectional
Recording Method	F2F
Standard	JIS x 6301- Type I/II
Type I	IATA, ABA, THRIFT
Type II	NTT

## Electrical

Supply Voltage	5 VDC $\pm$ 10% (typ.)
Current	
Operating	100 mA max.
Standby	50 mA max.
Surge	3 A max.
Interface	RS232C, Keyboard Wedge

## Environmental

Temperature	
Operating	+32 to +104° F (0 to +40° C)
Storage	+14 to +140° F (-10 to +60° C)
Humidity (RH non condensing)	
Operating	20 to 80%
Storage	20 to 90%
ESD	10 KV

## Physical

Case Material	Plastic (Beige or Black)
Dimensions (L x W x H)	125 x 47 x 40.5 mm (4.9 x 1.9 x 1.6 in)
Weight	130 g (4.6 oz.)
Cable length	150 cm (59 in) nominal, straight

## Standard Pinouts

Keyboard Wedge		RS232C	
DB9M screw connector		DB25	
Pin	Function	Pin	Function
1	S GND	1	F GND
2	F GND	2	RD
3	+5V	3	SD
4	NC	4	CS
5	NC	5	RS
6	KB CK	6	NC
7	CP CK		

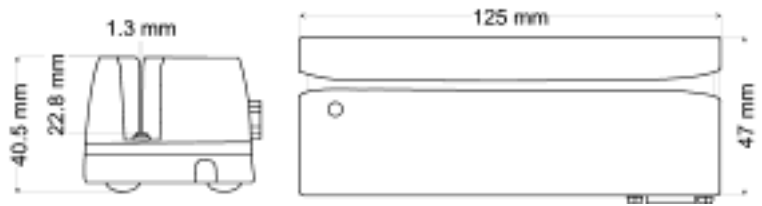
## Warranty

Five (5) years, including parts & workmanship. Extended service contracts available.

## Technical Support / Sales

Opticon's experienced, well trained technical staff are available to answer questions and assist you in every way possible in support of our products. Call today to find out how our products can be adapted to your design: **(800) 636-0090**, or visit our web site at [www.opticonUSA.com](http://www.opticonUSA.com)

## General Mechanical Specifications



All dimensions in millimeters.  
Optional external scanner port shown.

## Ordering Information

### LC1 0M4 1 R WES-000

<b>Bar Code Height (mm) above plate</b> 0 = 15 1 = 12.5 (std.) 2 = 10 3 = 7.5 9 = None	<b>Connector*</b> <b>Interface</b> R1 = RS232C WE = Wedge <b>LED/Light Source</b> R = Red I = Infrared <b>Case/Mount</b> 0 = Beige/Desk 1 = Beige/Flush 2 = Black/Desk 3 = Black/Flush
<b>Aux. Port</b> 0 = None 1 = Yes	
<b>Mag Stripe</b> 0 = None 1 = Track 1 (IATA) 2 = Track 2 (ABA) 3 = Track 3 (THRIFT) 4 = Tracks 1 & 2 5 = Tracks 2 & 3 6 = Tracks 1, 2 & 3	

Standard Units	Mag Tracks			Bar Code	Case	Mount	Interface
	1	2	3				
LC10M00RR1S-000	N	N	N	Y	Beige	Desk	RS232C
LC10M40RR1S-000	Y	Y	N	Y	Beige	Desk	RS232C
LC10M01RR1S-000	N	N	N	Y	Beige	Flush	RS232C
LC10M41RR1S-000	Y	Y	N	Y	Beige	Flush	RS232C
LC10M02RR1S-000	N	N	N	Y	Black	Desk	RS232C
LC10M42RR1S-000	Y	Y	N	Y	Black	Desk	RS232C
LC10M03RR1S-000	N	N	N	Y	Black	Flush	RS232C
LC10M42RR1S-000	Y	Y	N	Y	Black	Flush	RS232C
LC10M00RWES-000	N	N	N	Y	Beige	Desk	Wedge
LC10M40RWES-000	Y	Y	N	Y	Beige	Desk	Wedge
LC10M01RWES-000	N	N	N	Y	Beige	Flush	Wedge
LC10M41RWES-000	Y	Y	N	Y	Beige	Flush	Wedge
LC10M02RWES-000	N	N	N	Y	Black	Desk	Wedge
LC10M42RWES-000	Y	Y	N	Y	Black	Desk	Wedge
LC10M03RWES-000	N	N	N	Y	Black	Flush	Wedge
LC10M43RWES-000	Y	Y	N	Y	Black	Flush	Wedge

\* Alternate connectors and pinouts are available to match your application. Contact Opticon for details.



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