



Omni Rail

The Omni Rail reads up to three tracks of magnetics with a single swipe in either direction. Its 99mm length slot makes it easy to use, with less than one error in 100,000 bits on ISO compliant media. The Omni Rail also scans barcodes printed on paper, card stock, or plastic. An infrared option is available for high-security applications, where barcodes are overprinted to prevent duplication.

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ELECTRICAL

Power Requirements:

Barcode: +5 VDC +/-10% (50mV ripple maximum)

Ground 0 VDC (GND)

MagStripe: +5 VDC +/-10% (50mV ripple maximum)

Ground 0 VDC (GND)

Operating Current:

About 65mA for combination magnetic stripe (three tracks) and barcode

About 35mA for magnetic stripe (three tracks) only

About 60mA for barcode only

ENVIRONMENTAL

Operating Temperature:

32° F to 131° F (0° C to 55° C)

Extended Temp. Option:

-31° F to 140° F (-35° C to 60° C) without ice build-up on magnetic head

Storage Temperature:

-22° F to 158° F (-30° C to 70° C) non-condensing

Humidity:

Maximum 95% non-condensing

RELIABILITY

MagStripe Operating Life:

1,000,000 cycles minimum

Rail Operating Life:

1,000,000 cycles minimum

MagStripe Read Rate:

Less than one error in 100,000 bits

MECHANICAL

Dimension (L)x(W)x(H):

3.90 inches (99 mm) x 1.06 inches (27 mm) x 0.83 inches (21 mm)

Media Formats:

ISO 7811, Aiken Code (F2F)

Media Thickness:

Barcode: .005 to .050 inches

MagStripe: .015 to .050 inches

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