OMNI™

Heavy Duty Slot Reader
for Bar Codes and/or Magnetic Stripes

USB

Reads magnetic stripes.

The Omni reads up to three tracks of information with a single swipe in either direction. In combination, the same Omni unit can read both bar code and magnetic stripe media. TTL, RS-232, keyboard wedge, USB/keyboard, and Wiegand interfaces are available.

Edits and formats data.

The Omni can be programmed to divide, rearrange, edit, and validate fields of scanned data. In addition, it allows for up to 16 preamble or postamble characters. Data editing for the Wiegand interface can be programmed with an optional RS-232 adaptor cable.

Scans bar codes.

The Omni scans bar codes printed on paper, card stock, or plastic. An infrared option is available for security-based applications, where bar codes are over-printed to prevent duplication.

Stands up to heavy use.

The Omni reader is designed for demanding applications, such as for access control or in self-service kiosks. Its die-cast metal base, stainless steel wearplate, and impact-resistant housing make it ideal for stand-alone, high-volume traffic. Its metal base can be securely mounted with screws, and cable exits are avaliable at the side, end, or bottom of the unit. A weatherproof/extended temperature version is also available for use in harsh environments.

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WCR 32X7 Omni Heavy-Duty Slot Reader Specifications

Electrical

Bar Code:	Power +5 VDC +/-10% (35mA maximum). Ground 0 VDC (GND).
Magnetic:	Power +5 VDC +/-10% (50mV ripple maximum). Ground 0 VDC (GND).
	Chassis Ground connected to GND and magnetic head case.
Operating Current:	35mA maximum for undecoded bar code only. 15mA maximum for undecoded magnetic stripe only (3 tracks). 70mA additional for decoded with keyboard or RS-232 interface.

Environmental

Operating Temperature:	32°F to 131°F (0°C to 55°C).
Weatherproof/Extended Temperature 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.

* Minimum quantities apply: extended temperature option not available with bar code feature.

Reliability

Electronics MTBF:	Read electronics, bar code: 30,000 POH. Read electronics, magnetic: 125,000 POH. Interface electronics, RS-232/keyboard: 125,000 POH.
Magnetic Head Life:	1,000,000 passes minimum.
Rail and Cover Life:	1,000,000 passes minimum.
Magnetic Read Rate:	Less than one error in 100,000 bits on cards conforming to ISO 7811 1-5 (not induced by operator error).
Warranty:	One year, parts and labor.

Mechanical

Bar Code Source Light:	Visible red 660nm or Infrared 930nm.
Minimum Bar Code PCS:	60%.
Bar Code Centerline:	.49 inches (12.50mm) from bottom of slot to center of reading window.
Bar Code Resolution:	.006 inches (6mil) minimum.
Magnetic Stripe Formats:	ISO 7811, AAMVA, and CA DMV.
Swipe Speed:	Bar Code: 5 to 65 inches per second, bi-directional.**
	Magnetic Stripe: 3 to 55 inches per second, bi-directional (normal density).
Media Thickness:	Bar Code media: .005 to .055 inches.
	Magnetic Stripe media: .01 to .055 inches.
Slot Width:	.055 (1.37mm).
Interfaces:	RS-232/keyboard wedge (AT/XT, PS2, Mac, and many others) TTL (undecoded magnetics and/or Bar Code), Standard SIA 26-bit Wiegand, USB/keyboard.
Dimensions:	Length: 5 inches (127mm). Width: 2.05 inches (52mm). Height: 1.38 inches (35mm).
Weight:	1.4 lb. (including power pack).
Cable Length:	6-foot straight cable.
Connector:	Keyboard: Combination 5 pin/6 pin DIN. TTL: 9 pin squeeze. RS-232: DB9F. TTL Mag/BC Combo Readers: unterminated cable.

Omni Reader Footprint:
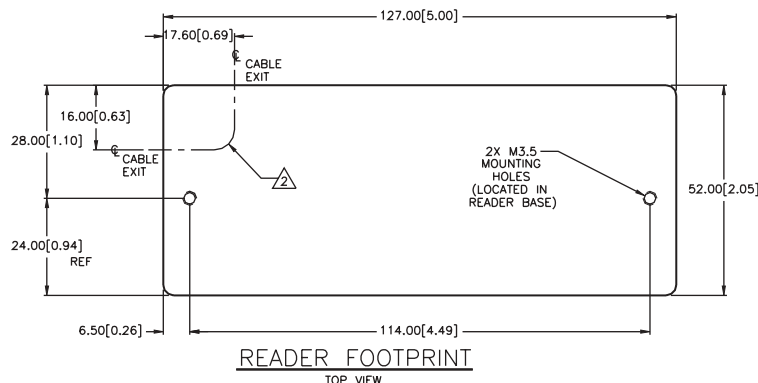
** Media velocity can vary depending on bar code density and quality.

READER FOOTPRINT
TOP VIEW

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