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Durareader

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

Reads magnetic stripes

The Durareader reads up to three tracks of information with a single swip in either direction. In combination, the same Durareader unit can read both bar code and magnetic stripe media.
TTL, RS232, Keyboard Wedge, USB/Keyboard and Weigand Interfaces are available.

Edits and formats data

The Durareader can be programmed to divide, rearrange, edit and validate fields of scanned data. In addition, it allows for up to 16 preamble of post amble characters. Data editing for the Weigand Interface can be programmed with an optional RS232 adaptor cable.
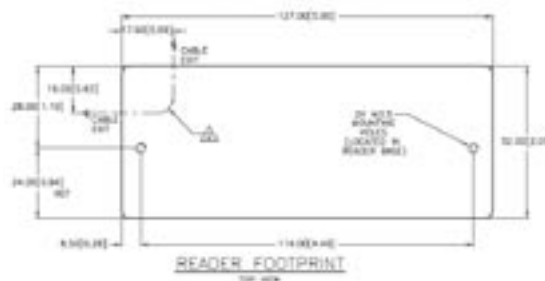
Scan bar codes

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

Stands up to heavy use

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

DuraReader Footprint:

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Specifications

Electrical

Bar Code	Power +5VDC +/-10% (35mA maximum)
	Ground 0VDC (GND)
Magnetic	Power +5VDC +/-10% (50mV ripple maximum)
	Ground 0VDC (GND)
	Chassis Ground connected to GND and magnetic head case
Operating Current	35mA maximum for undecoded bar code only
	0.8mA per track typical when reading an undecoded magnetic stripe (3 tracks)
	70mA additional for decoded with keyboard or RS232 interface

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 solution	.006 inches (6 mil) minimum
Magnetic Stripe Format	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 velocity can vary depending on bar code density and quality.
Media Thickness	Bar Code media .005 to .050 inches (0.127 to 12.7mm)
Slot Width	.055 (1.397mm)
Symbologies Supported	Code 39, Interleaved 2 of 5, Industrual 2 of 5, FEBRABAN, Code 128, Codabar, MSI/Plessey, UPC-A, UPC-E, Expansion, EAN-13, EAN-8
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.
	TIL: 9 pin squeeze RS-232: DB9FTTL Mag/BC
	Combo Readers: unterminated cable

Environmental

Operating Temperature	32 °F to 131 °F (0 °C to 55 °C)
Weatherproof/Extended	-31 °F to 140 °F (-35 °C to 60 °C) without ice build-up on
Temperature option	magnetic head*
	*minimum quantities apply: extended temperature option not available with bar code feature
Storage Temperature	-31 °F to 158 °F (-35 °C to 70 °C) non-condensing
Humidity	Maximum 95% non-condensing

Reliability

Electronics MTBF	Read electronics, bar code:30,000 POH.
	Read electronics, bar code:125,000 POH.
	Interface electronics, RS-232/keyboard: 125,000 POH.
Magnetic Head Life	1,000,000 passes minimum
Rail and Cover Life	2,000,000 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

Models

DR3227-612	Track 1 and 2 MSR, Barcode,TTL Interface, visible red
DR3227-633	Track 1, 2 and 2 MSR, Barcode,TTL Interface, visible red
DR3227-502	Track 2 MSR,TTL Interface
DR3227-503	Track 3 MSR,TTL Interface
DR3227-512	Track 1 and 2 MSR,TTL Interface
DR3227-523	Track 2 and 3 MSR,TTL Interface
DR3227-533	Track 1, 2 and 3MSR,TTL Interface
DR3207-600	Visible Red,TTL Interface
DR3207-700	Infra-red,TTL Interface
DR3227-602	Track 2 MSR, Barcode, RS232 Interface, visible red
DR3227-612	Track 1 and 2 MSR, Barcode, RS232 Interface, visible red
DR3227-623	Track 2 and 3 MSR, Barcode, RS232 Interface, visible red
DR3227-633	Track 1, 2 and 3 MSR, Barcode, RS232 Interface, visible red
DR3227-712	Track 1, 2 and 3 MSR, Barcode, RS232 Interface, infra-red
DR3227-502	Track 2 MSR, RS232 Interface
DR3227-512	Track 1 and 2 MSR, RS232 Interface
DR3227-523	Track 2 and 3 MSR, RS232 Interface
DR3227-533	Track 1, 2 and 3MSR, RS232 Interface
DR3227-600	Visible Red, RS232 Interface
DR3227-700	Infra-red, RS232 Interface
DR3237-612	Track 1 and 2 MSR, Barcode, Keyboard Wedge Interface, visible red
DR3237-623	Track 2 and 3 MSR, Barcode, Keyboard Wedge Interface, visible red
DR3237-633	Track 1, 2 and 3 MSR, Barcode, Keyboard Wedge Interface, visible red
DR3237-712	Track 1, 2 and 3 MSR, Barcode, Keyboard Wedge, infra-red
DR3237-502	Track 2 MSR, Barcode, Keyboard Wedge Interface
DR3237-512	Track 1 and 2 MSR, Barcode, Keyboard Wedge Interface
DR3237-523	Track 2 and 3 MSR, Barcode, Keyboard Wedge Interface
DR3237-533	Track 1,2 and 3 MSR, Barcode, Keyboard Wedge Interface
DR3237-600	Visible Red, Keyboard Wedge Interface
DR3237-700	Infra-red, Keyboard Wedge Interface