

### Low Cost, Compact, Manual Swipe Reader

- Low power C-MOS technology
- Multiple configurations
- Same size as the Omron HSR series
- TTL-compatible interface (clock & data)
- Available with or without cover



## Ordering Information

Magnetic Tracks Supported (R, R/W)										
1	2	3	Center	JIS II	IC Contact	Interface	Cover	Cable	Color	Part Number
—	R	—	—	—	No	TTL	No	Yes	Black	V3B-4
—	R	—	—	—	No	TTL	Yes	Yes	Black	V3B-4K

Note: Cable harness is included with all V3B models. It is optional for V3A.

### ■ TYPICAL APPLICATIONS

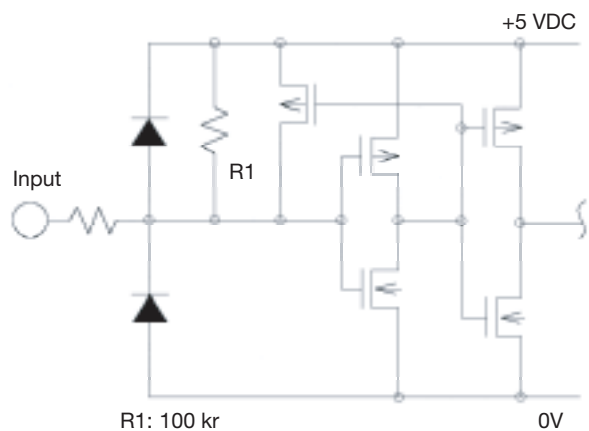
- Point-of Sale (POS) systems
- ID card checkers
- Club membership
- Access management
- Remote terminals for computers

## Specifications

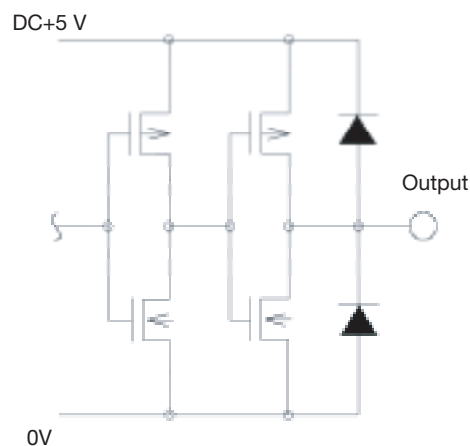
Part number		V3B - □□
Recommended card type		ISO 7810, 7811/1-6
Recording method		FM decoding (F2F)
Card feedingspeed		10 to 120 cm/second (10 to 100 cm/sec tripletrack)
Service life of magnetic head		300,000 passes
Operating power supply		+5 VDC $\pm 10\%$
Current consumption	Single track	3 mA typical, 5 mA maximum
Mounting location		Indoors—away from direct sunlight or wet, humid environment
Ambient temperature	Operation	-10° to 55 °C (14 °F to 131 °F)
	Storage	-30° to 70 °C (-22 °F to 158 °F)
Ambient humidity,	Operation	30% to 85% RH without condensation
	Storage	20% to 90% RH
Vibration		10 to 150 Hz, single vibration, width of 0.15 mm
Shock		Peak acceleration 19.6 m/sec <sup>2</sup>
Dimensions	With cover	100 W x 32 H x 32.5 D mm (3.94 W x 1.26 H x 1.28 D in)
	Without cover	100 W x 29.5 H x 27 D mm (3.94 W x 1.16 H x 1.06 D in)
Weight		Approx. 82 g with cover (52 g without cover)

## Engineering Data

### INPUT CIRCUIT DIAGRAM



### OUTPUT CIRCUIT DIAGRAM



## ■ I/O INFORMATION

Single Track Connector Harness

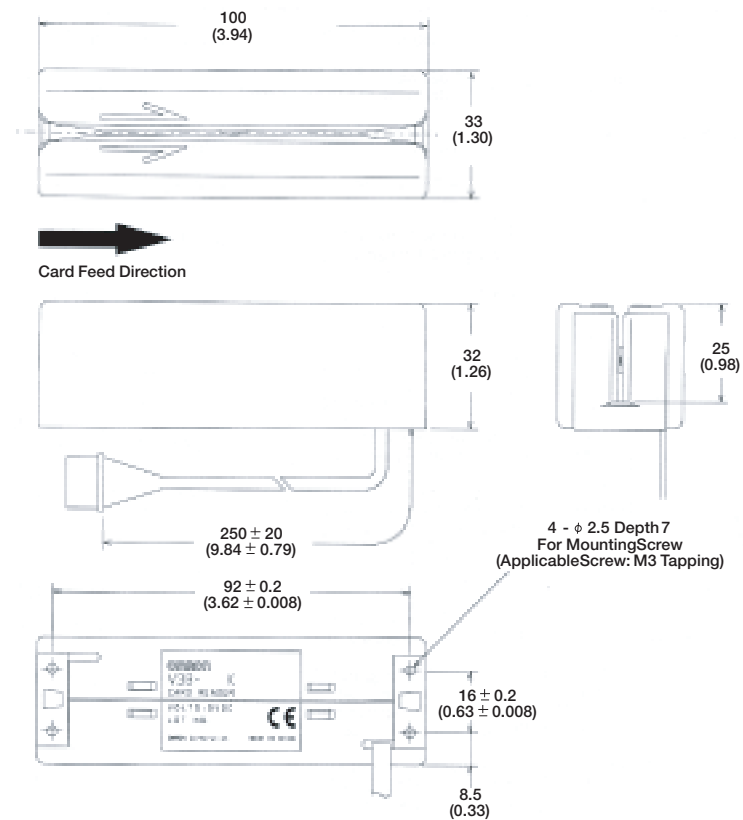
5-pin Molex connector part number 51102-0500.

Pin #	Signal	Input/Output	Description
1	$\overline{RDP}$	Output	Read data
2	$\overline{RCP}$	Output	Read clock
3	$\overline{CLS}$	Output	Card loaded
4	+5 VDC	—	—
5	0 VDC	—	—

# Dimensions

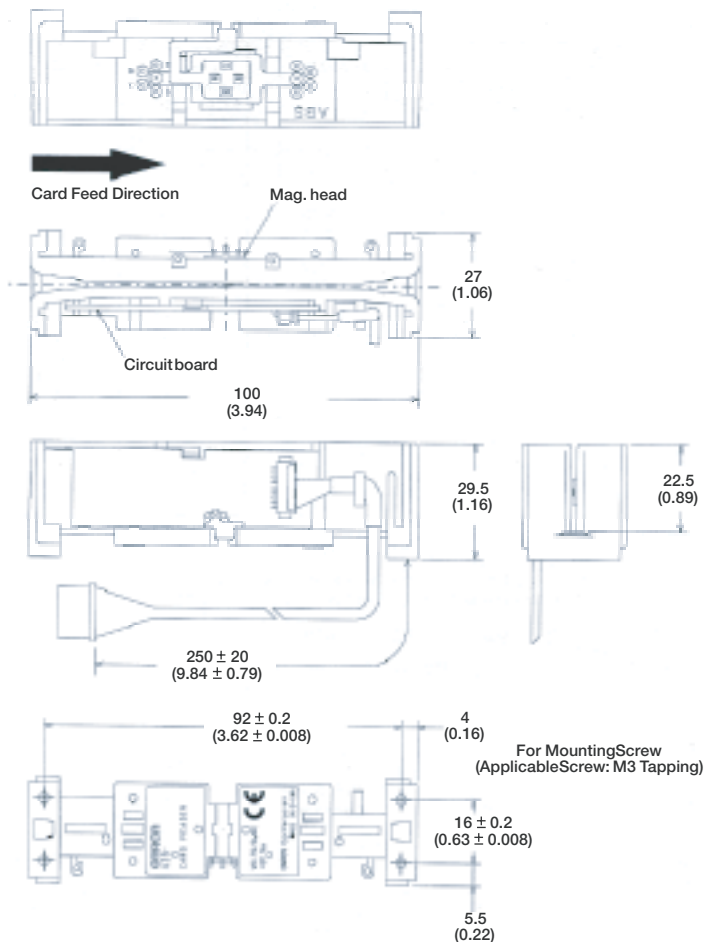
Unit: mm (inch)

## ■ V3B-4K



Note: Tolerances  $\pm 0.3$ mm unless specified

## V3B-4



Note: Tolerances ±0.3mm unless specified

**OMRON**®

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