

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







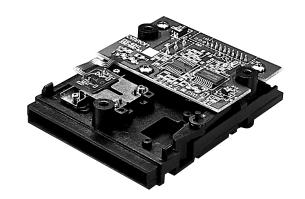


## Manual Insert Magnetic Card Reader

3S4YR-SBRN

# Compact, Highly Reliable Insert Reader Reads 62% of Magnetic Track

- Effective strip length of 46.6 mm max.
- Microswitches incorporated for card detection
- Wide operating temperature range
- Low power CMOS technology
- Current save mode
- Housing compatible with SCR type for easy conversion to IC cards
- TTL-compatible interface (clock & data)



### Ordering Information\_\_\_

Mag	Magnetic Tracks Supported (R, R/W)						_				
1		2	3	Center	JIS II	IC Contact	Interface	Cable	Cover	Color	Part Number
R		_	_	_		No	TTL	No	No	Black	3S4YR-SBR3N-50
_		R	_	_		No	TTL	No	No	Black	3S4YR-SBR4N-50
		_	R	_	1	No	TTL	No	No	Black	3S4YR-SBR5N-50

Note: Consult the IC Card Basics section of this catalog for IC contact descriptions.

#### **■ TYPICAL APPLICATIONS**

• Access Control • Ren

• Remote Terminals for Computers

Electronic Locks

• ID Card Checkers

Time and Attendance

• Telephones

Vending

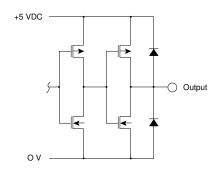
Gaming Machines

### Specifications\_

Part number		3S4YR-SBRN			
Recommended Magnetic head card type		ISO 7810, 7811/1-5, 7812, 7813. Please inquire if using high-coercivity cards.			
Card feeding speed		10 to 100 cm/sec (4 to 39 in/sec)			
Service life	Magnetic head	300,000 passes (one round trip)			
	PCB	50,000 hours			
Operating power supply		5 VDC ± 10%			
Current consumption	Operation	5 mA max., 3 mA mean			
	Standby	1.5 mA max., 1 mA mean			
Mounting location		Indoors away from wind, rain and sunlight.			
Ambient temperature	Operation	-10° to 55°C (14° to 131°F)			
	Storage	-30° to 70°C (-22° to 158°F)			
Ambient humidity	Operation	10% to 95% RH without condensation			
	Storage	10% to 95% RH without condensation			
Vibration	,	10 to 55 Hz, 2 mm double amplitude, for 30 minutes in X, Y, and Z directions.			
Shock	Storage	300 m/sec² (30 G) three times in each of X, Y, and Z directions for a total of 18 times.			
Dimensions		78L x 60W x 21.5H mm (3.07L x 2.36W x 0.85H in)			
Weight		50 g (1.8 oz)			

### **Engineering Data**

#### **■ OUTPUT CIRCUIT DIAGRAM**



#### **Output signal levels:**

 $V_{OL} = 0.4 \text{ V}$  at 4 mA

 $V_{OL} = 3.5 \text{ V at 1 mA}$ 

#### **■ I/O INFORMATION**

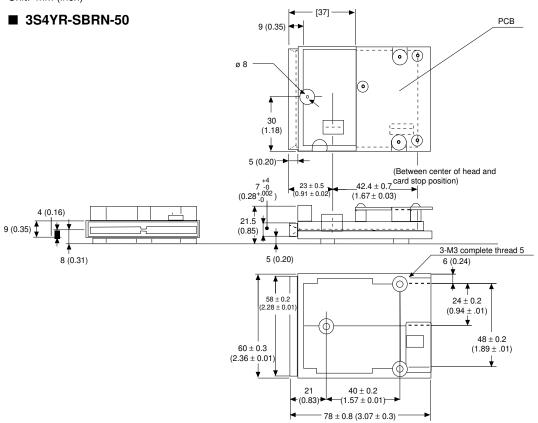
#### 3S4YR-SBR4N-50

10-pin JAE single-pin header part number IL-10P-S3FP2-1. Connector JAE part number IL-10S-S3L-N.

Pin #	Signal	Input/Output	Description
1	NC	_	Not connected
2	RDP	Output	Read data
3	RCP	Output	Read clock
4	CLS	Output	Card load
5	SW1-COM	Output	Card detection for rear
6	SW1-NO	Input	Card detection for rear
7	SW2-COM	Output	Card detection for front
8	SW2-NO	Input	Card detection for front
9	5 VDC	_	Vcc
10	0 V	_	Ground

### **Dimensions**

Unit: mm (inch)



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.



2