

Manual Insert Magnetic Card Reader

3S4YR-SBR-N

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
- TTL-compatible interface (clock & data)



Ordering Information_

Magnet	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-SBR2N-20
_	R	_	_	_	No	TTL	No	No	Black	3S4YR-SBR4N-20
_	_	R	_	_	No	TTL	No	No	Black	3S4YR-SBR5N-20

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

■ TYPICAL APPLICATIONS

• Access Control • Re

• Remote Terminals for Computers

Electronic Locks

• ID Card Checkers

Time and Attendance

Telephones

Vending

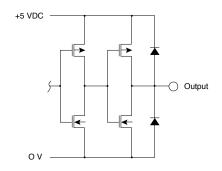
Gaming Machines

Specifications_

Part number		3S4YR-SBR-N			
Recommended Magnetic head card type		ISO 7810, 7811/1-5, 7812, 7813.			
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 stand by mode available with CSV			
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:

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

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

■ I/O INFORMATION

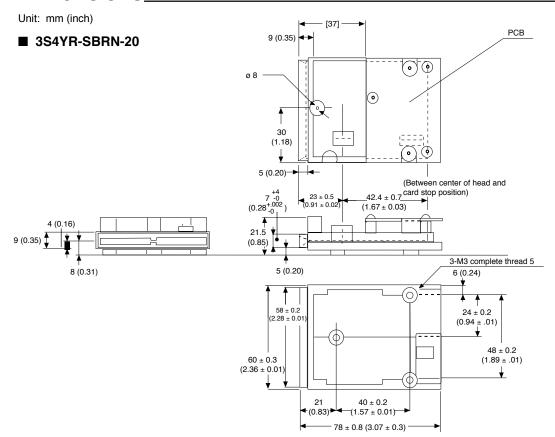
3S4YR-SBR4N-20

10-pin JAE angle-pin header part number IL-S-10P-S2L2-EF. Suitable Connector JAE part number IL-S-10S-S2C2-S (Socket housing)

IL-S-C2-S-1000 (Socket contact)

Pin#	Signal	Input/Output	Description		
1	RDP	Output	Read data		
2	RCP	Output	Read clock		
3	CLS	Output	Card load		
4	CLS	Input	Current Save		
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





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Contact our nearest representative at

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This catalog is valid as of Aug 2003.

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All specifications may be subject to change without notice.