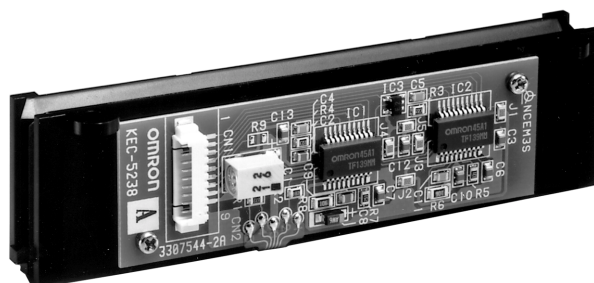


Manual Swipe Magnetic Card Reader

3S4YR-HZR

Low Power, Ultra-Compact, Manually
Operated Card Reader

- Ideal for embedded keyboards
- Lightweight and ultra-compact
- Low power through use of CMOS technology
- Current save mode
- Stable operation with card swipe speeds from 10 to 120 cm/second
- TTL-compatible interface (clock & data)



Ordering Information

Magnetic Tracks Supported (R, R/W)					IC Contact	Interface	Cover	Cable	Color	Part Number
1	2	3	Center	JIS II						
R	R	—	—	—	No	TTL	No	No	Black	3S4YR-HZR6-01
—	R	R	—	—	No	TTL	No	No	Black	3S4YR-HZR7-01

■ ACCESSORIES

Description	Part Number
HZR1 cable harness	CABLE KTI-628
HZR6/7 cable harness	CABLE KTI-240

■ TYPICAL APPLICATIONS

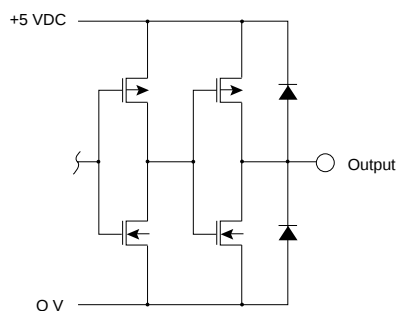
- Custom Keyboards
- Hand-held Terminals
- Point-of-Sale Systems (POS)

Specifications

Part number		3S4YR-HZR
Recommended card type		ISO 7810, 7811/1-5, 7812, 7813
Recording method		FM decoding (F2F)
Card feeding speed		10 to 120 cm/sec (4 to 47 in/sec)
Service life		300,000 passes min.
Operating power supply		5 VDC $\pm$ 10%
Current consumption	Operation	6.0 mA typ., 10 mA max.
	Current save mode	2.0 mA typ., 3 mA max.
Mounting location		Anywhere not directly subject to water or 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
Vibration		10 to 55 Hz, 2 mm double amplitude, for 30 minutes in X, Y, and Z directions.
Shock		300 m/sec ² (30 G) in each of X, Y, and Z directions
Dimensions		25.2L x 98.2W x 23.3H mm (0.99L x 3.87W x 0.92H in)
Weight		Approx. 26 g (0.92 oz)

Engineering Data

■ OUTPUT CIRCUIT DIAGRAM



Output signal levels:

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

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

I/O INFORMATION

Double Track Connector

9-pin Molex connector part number 53261-0990.

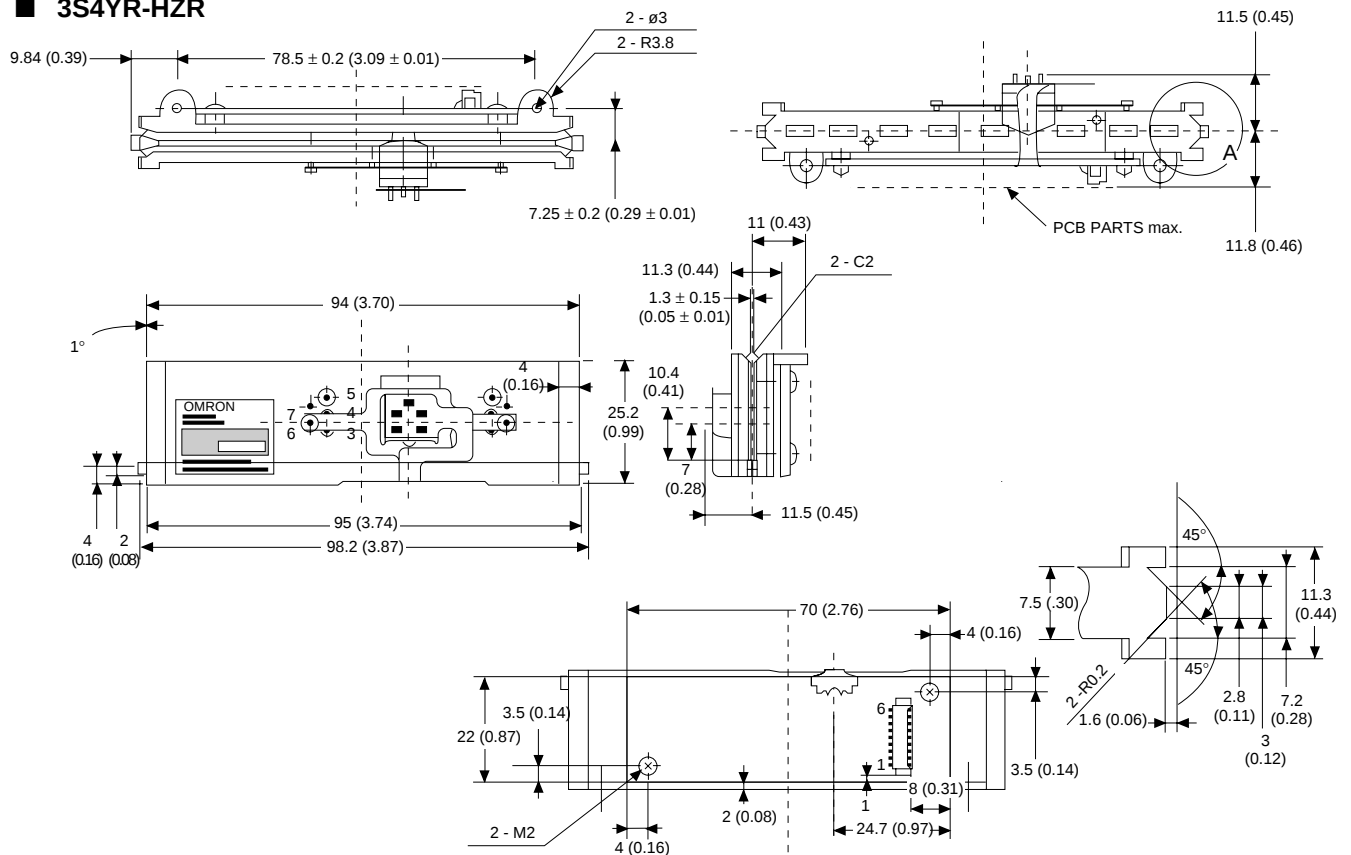
Applicable Molex socket housing part number 51021-0900.

HZR6-01, HZR7-01			
Pin #	Signal	Input/Output	Description
1	RCP1 (track 1 or 3)	Output	Read clock, track 1
2	RDP1 (track 1 or 3)	Output	Read data, track 1
3	CLS	Output	Card load
4	RCP2 (track 2)	Output	Read clock, track 2
5	RDP2 (track 2)	Output	Read data, track 2
6	CSV	Input	Current save
7	+5VDC	—	5 VDC
8	0V	—	—
9	+5VDC	—	5 VDC

Dimensions

Unit: mm (inch)

3S4YR-HZR



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

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