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SPECIFICATIONS

Manual Swipe Type Magnetic Stripe Card Reader

(The decoding module with main control chip)

Overview This specification describes the electrical, operational, environmental and mechanical requirements of the model **ZCS43/90/100** respectively. MSR manual swipe modules are for reading magnetically encoded data on the cards with either high or low energy stripe that confirm to all ANSI/ISO track combination.

Abbreviations and Definitions

ANSI American National Standard Institute ISO International Standard Organization BPI Bit per Inch IATA International Air Transportation Association ABA American Banks Association MINTS Mutual Institutions National Transfer Systems CPD Card Present Detect RCP Read Clock Pulse RDD Read Data

1. INTRODUCTION

ZCS43/90/100 is developed for using Magnetic card

It is Manual Swipe Type Magnetic Card Reader with **TTL terminal**.

2. CONFIGURATIONS

The configurations are as follows:

Model No.	Tracks	Color	Size
ZCS43M-A	Read only one track	Black	43mm
ZCS43M-B	Can read two tracks	Black	43mm
ZCS43M-C	All 1,2,3 Tracks readable	Black	43mm
ZCS90M-A	Read only one track	Black	90mm
ZCS90M-B	Can read two tracks	Black	90mm
ZCS90M-C	All 1,2,3 Tracks readable	Black	90mm
ZCS100M-A	Read only one track	Black	100mm
ZCS100M-B	Can read two tracks	Black	100mm
ZCS100M-C	All 1,2,3 Tracks readable	Black	100mm



ZCS43/90/100

3.FEATURES

A. INTERFACE: TTL

B. Cable Length

- i.none
- ii.145mm
- iii.245mm

* Customized connector are also available.

4.BASIC SPECIFICATION

A. DIMENSION :

ZCS100:

Length -100mm

Width - 24mm

Height - 21mm

ZCS90:

Length -90mm

Width - 24mm

Height - 21mm

ZCS43:

Length -43mm

Width - 22.5mm

Height - 16mm

B. WEIGHT :**ZCS100:**

25g (Approx.) without cable

ZCS90:

20g (Approx.) without cable

ZCS43:

10g (Approx.) without cable

C. POWER SUPPLY :**ZCS43:**

5V DC, 500mA

ZCS90/100:

Voltage: 3.3V---5 Volts DC

D. ENVIRONMENTAL REQUIREMENTS

- i. Operation : -25°C ~ 60°C, 20%~90% RH
- ii. Storage : -30°C ~ 70°C, 10%~95% RH
- iii. Humidity: 0% to 95% RH non-condensing

E. OPERATION LOCUS :

Indoor use

F. SHOCK : 30G, 11ms**G. Case material:** ABS plastic**H. Life of Head:** 500,000 passes, minimum**5. SPECIFICATION****A. Card Specification**

The cards which are used in MSR43/90/100 should be complied with ISO 7810, 7811 and 7812, AMMVA, CADMV and other format, Credit Card, gift card, all other standard

Track Position	ISO 1(IATA)	ISO 2 (ABA)	ISO 3(MINTS)
Recording Density	210BPI	75BPI	210BPI
Recording Capacity	79 Characters (7bits)	40 Characters (5bits)	107 Characters (5bits)
Card Thickness	0.76 mm ±0.08 mm		

Card width: 0.010 to 0.050 inches (0.254 to 1.27mm)

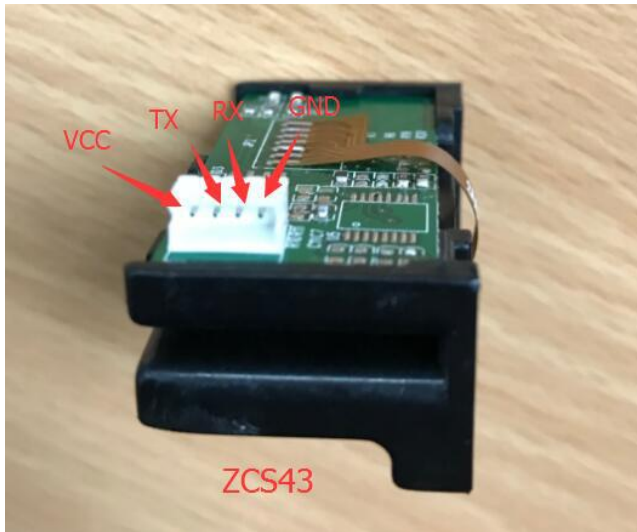
B. MAGNETIC READER

Formats: ISO 7811, AMMVA, and CAD MV.

Swipe speed: 5 to 55 inches per second, bi-directional

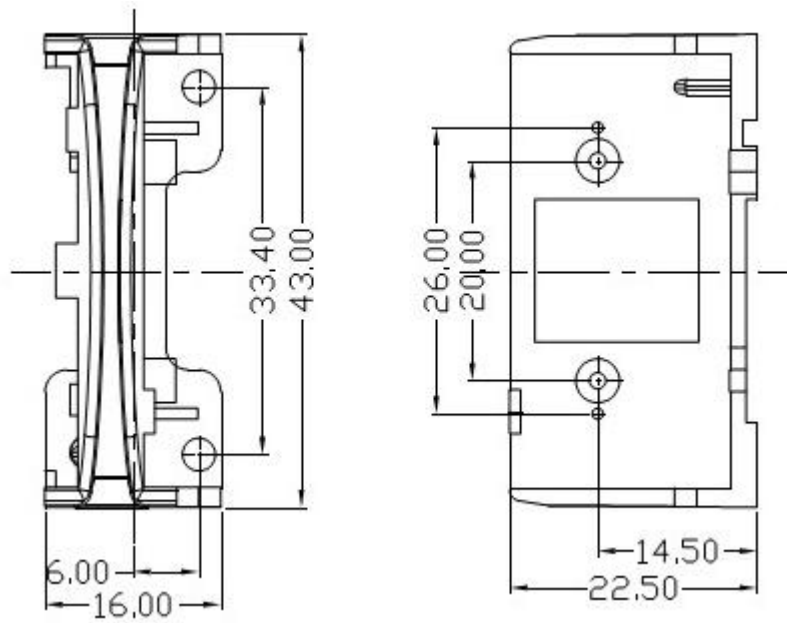
Slot width: 0.055 inches (1.37mm)

6.TTL Interface

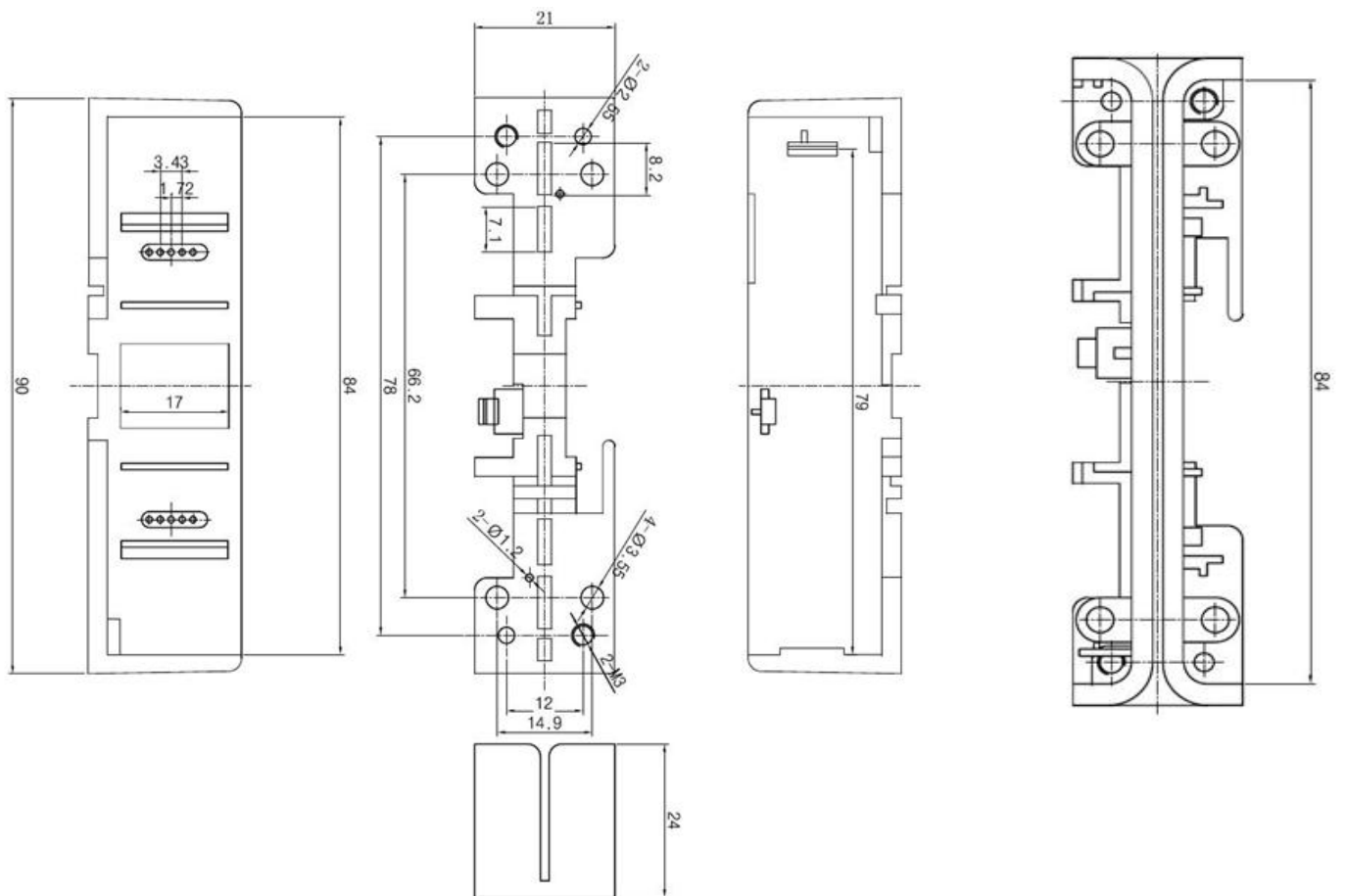


<i>Pin No.</i> (From right to left)	<i>Signal Name</i>	
	ZCS43	ZCS90
1	GND	VCC
2	RX	TX
3	TX	RX
4	VCC	GND

7.Dimension Drawings



ZCS43

**ZCS90**