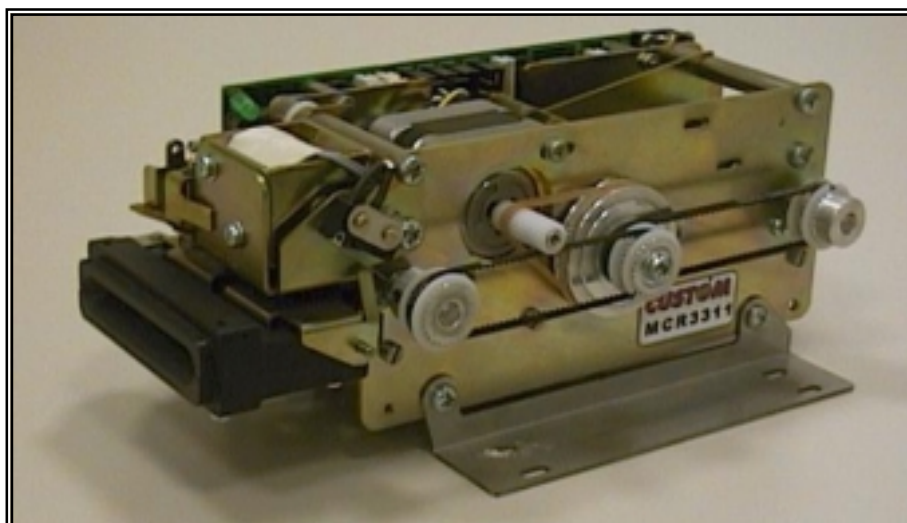# MAGNETIC AND IC-CARD READER AND WRITER

MCR33xx series

The High Quality And Performance Solutions For Atms, Kiosks and Self-Service Machines

FOR MORE INFORMATION PLEASE CONTACT :

MCR 3311 RW Motorized Magntic & IC Card Reader/Writer

Motorized insertion type and IC card reader/writer with RS-232C interface.

MAGNETIC CARD

ISO 7810,7811/1-5   1-5   Low-coercitivity (Lo –co) 7811 – 1/5
ISO 7810,7811/6   Hight-coercitivity (Hi-co)   7811 – 6

IC CARD

ISO 7816 (Contact position: Front side, lower position or upper position) (options)

CLEANING CARD

Standard type (Head cleaning cards, Crdit card reader cleaner) (options)

APPEARANCE

Appearance drawing number: CUSTOM XXX

CIRCUIT

Block diagram: CUSTOM ZZZ

MASS

Approximately: 1,8 Kg.

POWER REQUIREMENT

Voltage: +24V +/- 10% DC
Ripple: Less than 200 mVp-p

POWER CONSUMPTION (With out solenoid current)

Card feed 8190mm/s): Less than 0,6A
Waiting: Less than 0,3A
Peak curent: Less than 1A

POWER CONNECTOR TYPE

5046-04A MOLEX

CARD FEED SPEED

At mag-stripe Read/Write 190 mm/s approx. 3%

CARD FEED TIME

Approx. 1.5 seconds round trip

CARD EJECT LENGTH

More than 20mm

MCR 3311 RW motorized magnetic & IC Card Reader/Writer

Power

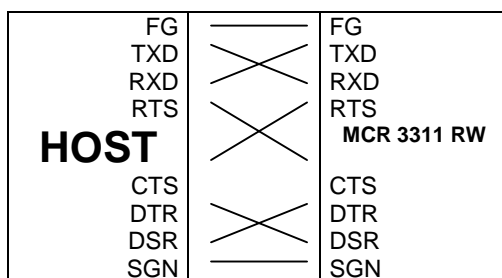| Pin No.	Signal Name	I/O	Function
1	+24V	I	+24V DC
1	GND	O	Ground
3	GND	O	Ground
4	BPS	I	Back-up Power

Interface connection

Pin No.	Signal Name	I/O	Function
1	NC	-	
2	RXD(RD)	I	Receive Data
3	TXD(SD)	O	Transmit Data
4	DTR(ER)	O	Data Terminal Ready
5	SGN	-	Signal Ground (0V)
6	DSR(DR)	I	Data Set Ready
7	RTS(RS)	O	Request To Send
8	CTS(CS)	I	Crear To Send
9	NC	-	

MCR 3311 RW Motorized Magnetic & IC Card Reader/Writer

This model is the motorized insertion type magnetic and IC card reader/writer with RS-232C interface.
This specification describes the electrical requirement of the model MCR 3311 RW – COMPATIBLE.

Name	Space	Mark	Condition
Meaning	0/on	1/off	
Output condition	+5V +/- +15V	-15V +/- -5V	RL=3K +/-7 ohm
Input condition	>approx. +3V	<approx. –3V	Rin=3K +/-7 ohm

RS 232C CONNECTION


```
FG  ———————  FG
TXD    ╲ ╱    TXD
RXD    ╱ ╲    RXD
RTS    ╲ ╱    RTS
                MCR 3311 RW
HOST    ╳
CTS          CTS
DTR    ╲ ╱    DTR
DSR    ╱ ╲    DSR
SGN  ———————  SGN
```

TRANSMISSION AND CONTROL SPECIFICATION

1. Synchronous method: Asynchronous
2. Transmission method: Half duplex
3. Baud rate: 9,600 Bps or 19,200 Bps
4. Data lenght: 7 bit + 1 parity
5. Stop bit: 1 bit
6. Character Code: ASCII
7. Parity check method: Even