

Compact sized insert magnetic/IC card reader with RS232 interface

- Tabletop design for easy implementation.
- Conforms to EMV specifications.
- Contact landing method ensures longer contact service life.
- Card lock mechanism protects data while communicating with host system.
- Supports transmission protocols T=0 and T=1.
- The communication between a host computer and the card reader is not affected by the various cards which are used.
- One RS232 port handles data from both magnetic and IC cards.
- Two LEDs indicate status set in response to the needs of the user.



I/O Information

Part Number	Track Reading	IC Contact
V4BF-1J-03V	ISO Tracks 1,2 and 3	ISO7816-1 and -2
V4BF-0J-03V	Not available	ISO7816-1 and -2

Specifications

Recommended card type		ISO7810, 7811-1 to -5, 7816-1 and -2
Operating power supply		12V DC $\pm$ 10% (supplied by AC adapter)
Current consumption		700 mA max.
Interface cable		Available as an option
Ambient temperature	Operation	0° to 45°C
	Storage	-15° to 60°C
Ambient humidity	Operation	30% to 85% RH (without condensation)
	Storage	20% to 90% RH (without condensation)
Vibration endurance		10 to 150Hz, single vibration width 0.15mm or acceleration of 2G 19.6ms ² , whichever is smaller
Shock endurance		196m/s ² (20G)
Dimensions		88(W) x 158.5(D) x 83.5(H) mm
Weight		Approx. 300g
Service life	Magnetic head	300,000 passes min.
	IC contact	300,000 passes min.
	Solenoid	300,000 passes min.

Card handling: Inserted card is automatically locked and is prevented from being removed, the card is released on command from the host system and automatically ejected to the removal position.

Application Examples

Electronic purse systems

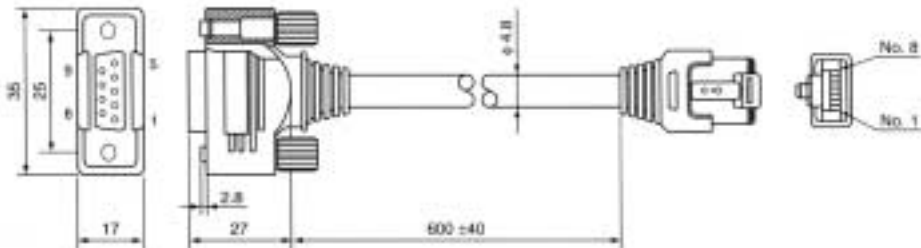
ID card checkers

Medical information systems

I/O Information

Interface method	Conforms to EIA RS232	
	Synchronous mode	Asynchronous mode
	Transmission speed	1200, 2400, 4800, 9600, 19200, 38400 bps
	Communication mode	half duplex
	Synchronising method	Start-stop method
	Data length	8 bits
	Error detection	Even parity

Note: Transmission speed is set by "Initial Reset" command after power supply is turned on.

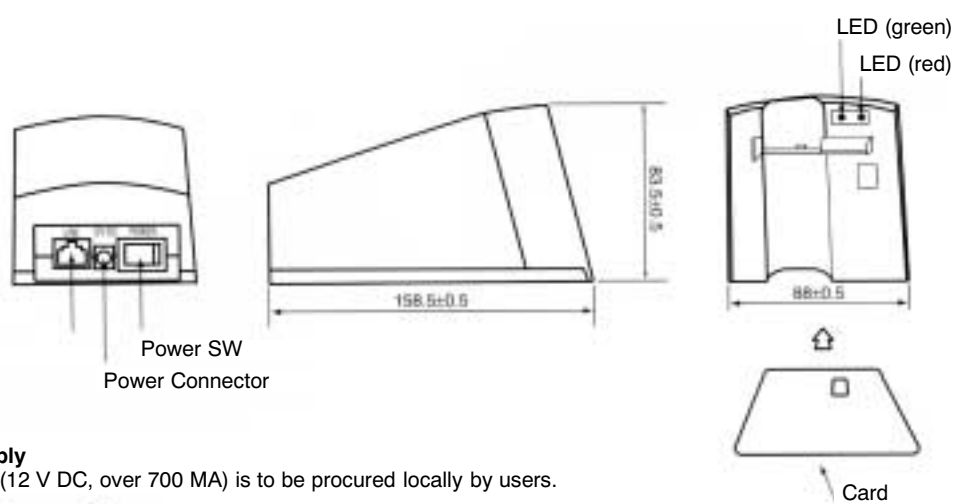
Interface cable	Part Number: V4BF/DF CABLE
	

Pin assignment (view from PC side)

Pin No.	Signal	Description
1	-	Not connected
2	RXD	Receive data
3	TXD	Transmit data
4	-	Not connected
5	GND	Signal ground
6	DSR	Data set ready
7	RTS	Request to send
8	CTS	Clear to send
9	-	Not connected

Note: Pin 7 and 8 are connected (shorted)

Dimensions



Power Supply

AC adapter (12 V DC, over 700 MA) is to be procured locally by users.



Note: Unless otherwise specified, tolerance is ± 0.3