

Contactless Reader

QProx

User Manual

Standard Version
Version : 02.00.0
Note :

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Revision History

Version	Date	Editor	Description
01.00.0	2008-08-05	Jackie	Create
02.00.0	2010-03-26	Eaton	<ol style="list-style-type: none"> 1. Added exterior and parts description of QP2000 & QP3000. 2. Added QP2000 & QP3000 SAM card installation procedures 3. QProx reader series' external DC adaptor supplies 12V/1A of power through RS232 port. 4. Added pin assignment of internal pin out 8 pins connector.

FCC Compliance Statement: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

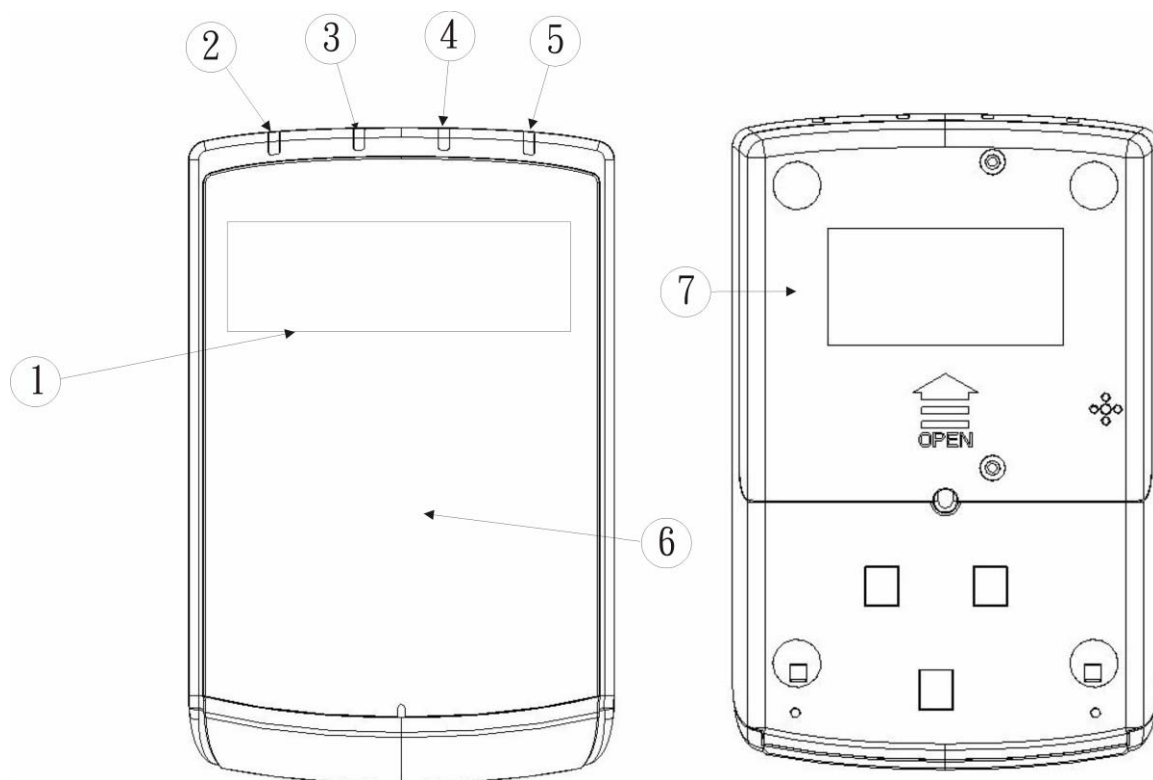
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

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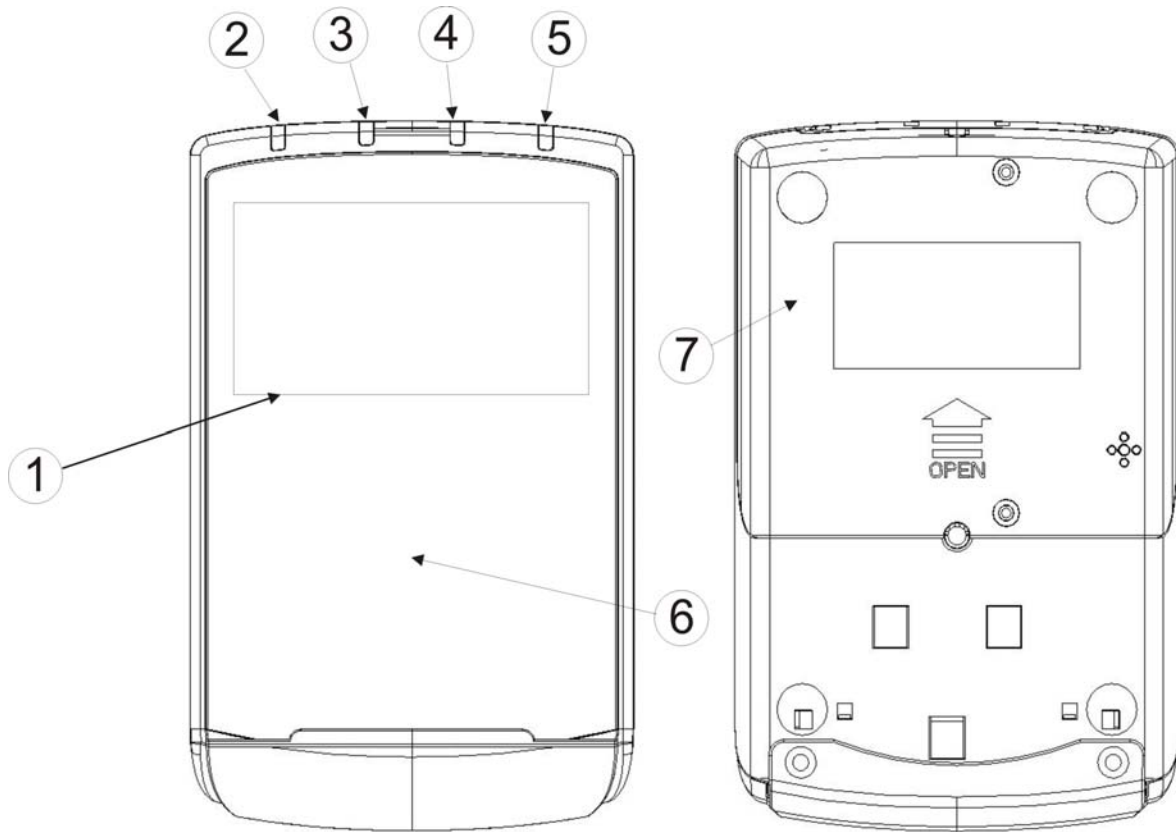
1 Introduction

Description of QP1000 and QP2000 readers:



- 1 LCD Display
- 2 LED (Blue)
- 3 LED (Orange)
- 4 LED (Green)
- 5 LED (Red)
- 6 Landing Zone
- 7 SAM Card Cover

Description of QP3000 Reader:



- 1 LCD Display
- 2 LED (Blue)
- 3 LED (Orange)
- 4 LED (Green)
- 5 LED (Red)
- 6 Landing Zone
- 7 SAM Card Cover

2 Power

There are several ways to supply power to a QProx reader:

- ✓ By external DC adapter supplying 12V/1A of power through RS232 connector, please refer to 錯誤! 找不到參照來源。 .
- ✓ By USB port supplying 5V/500mA, please refer to 錯誤! 找不到參照來源。 .

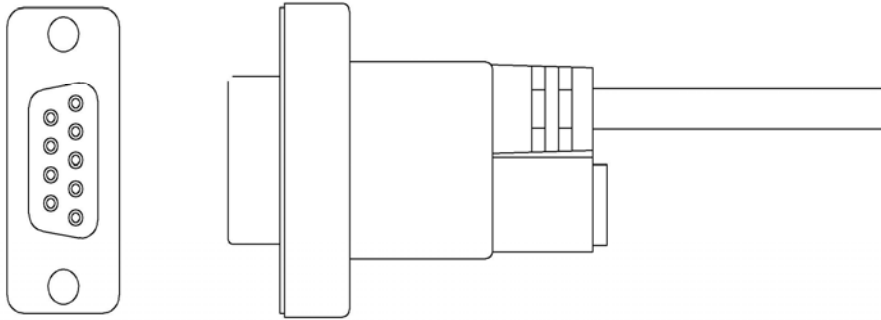
3 Packing List

- ✓ QPROX *1
- ✓ ADAPTER*1(Optional)
- ✓ USB/RS232 CABLE (Choose one of the cables prior to ordering)

4 Connector and Pin Assignment

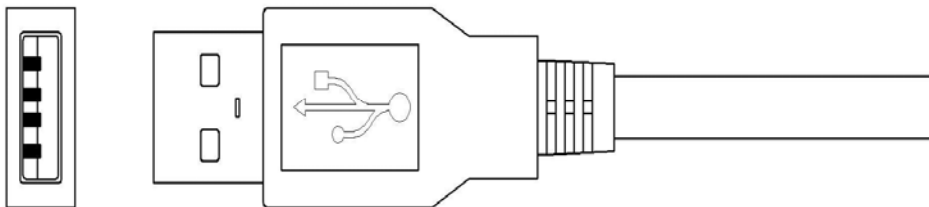
4.1 RS232 Type

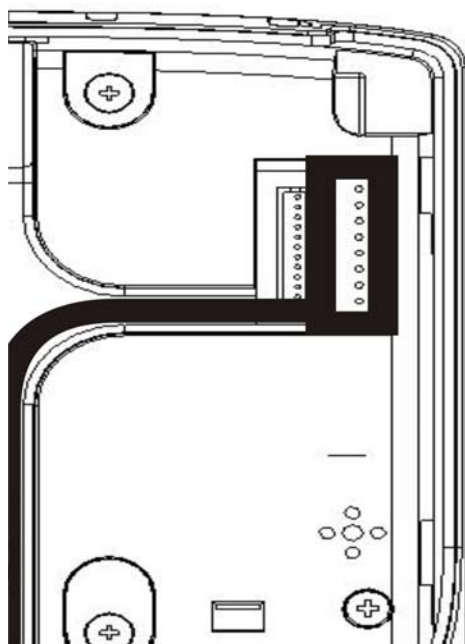
4.1.1 Standard D-SUB 9 Connector



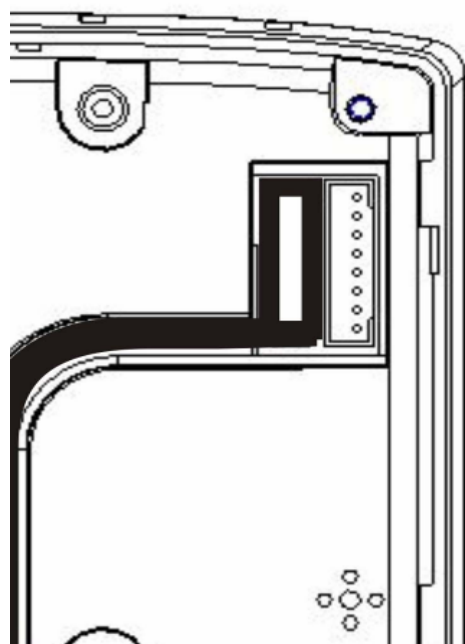
4.2 USB Type

4.2.1 Standard USB Type-A Connector



4.3 Internal Connector Pin Out


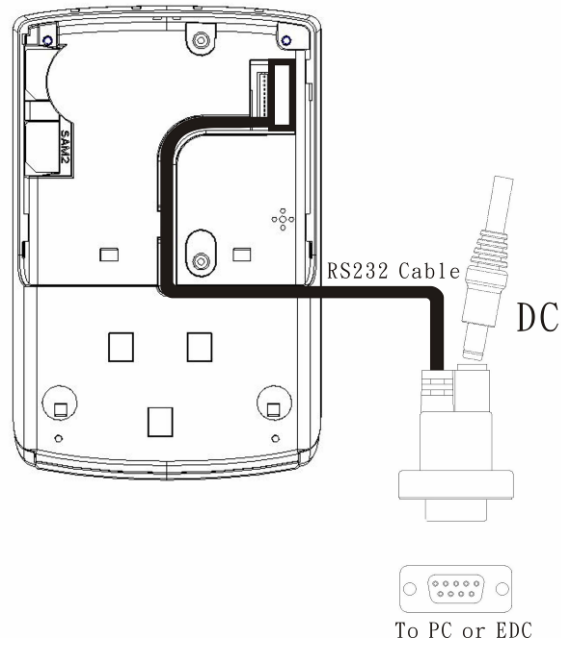
- 1.VEXT
- 2.TXD
- 3.RTS
- 4.RXD
- 5.CTS
- 6.GND
- 7.NC
- 8.NC



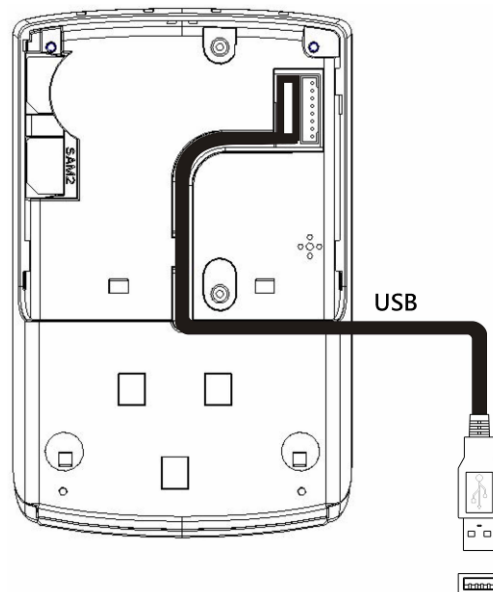
- 1.VEXT
- 2.VEXT
- 3.VDD5V
- 4.VDD5V
- 5.TXD
- 6.RTS
- 7.RXD
- 8.CTS
- 9.GND
- 10.USB D-
- 11.USB D+
- 12.GND

5 Installation

5.1 Power and RS232 Cable



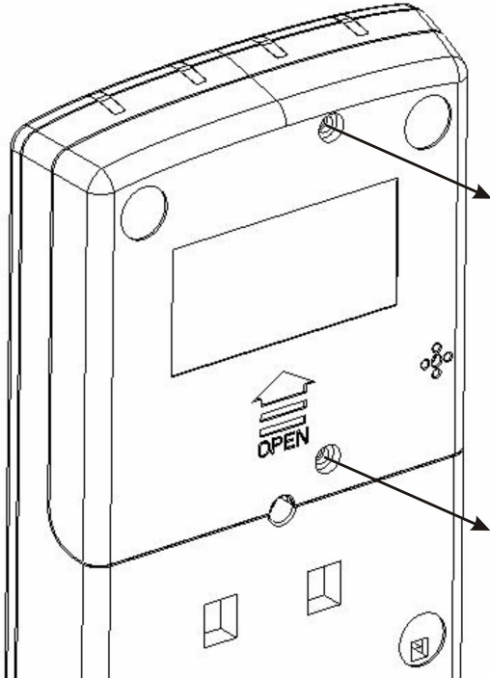
5.2 USB Cable



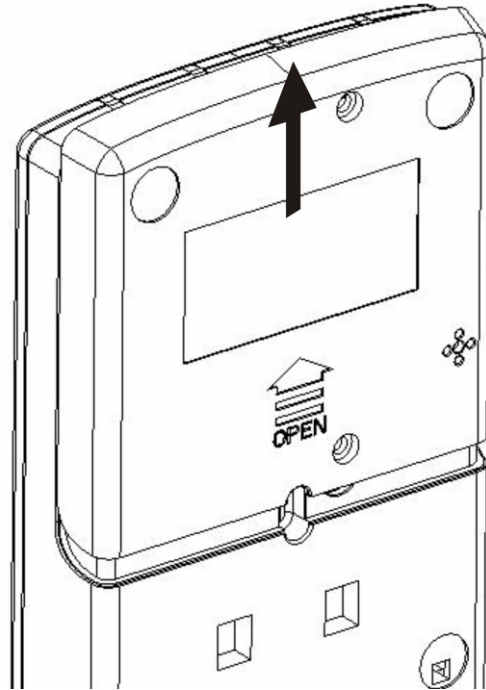
5.3 SAM Card Installation Procedures

QP1000&QP2000 SAM Card Installation Procedures

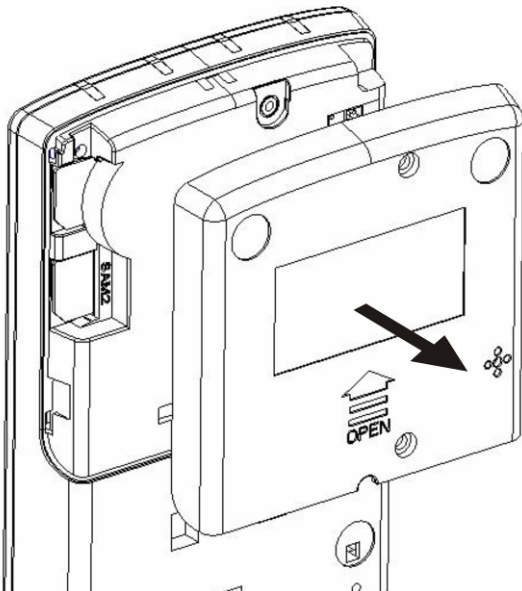
Step 1. Unscrew SAM card cover screws



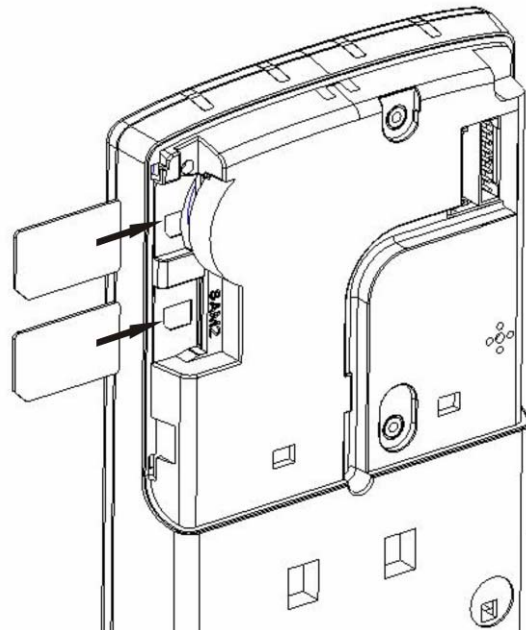
Step 2. Push SAM card cover upward



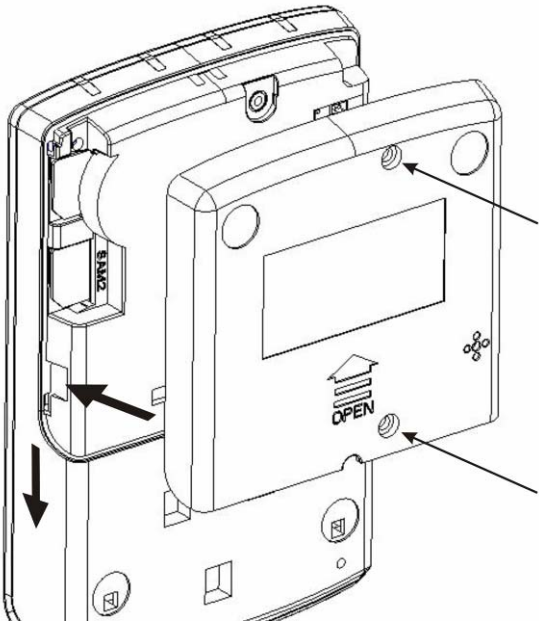
Step 3. Remove SAM card cover



Step 4. Insert SAM cards into SAM slots



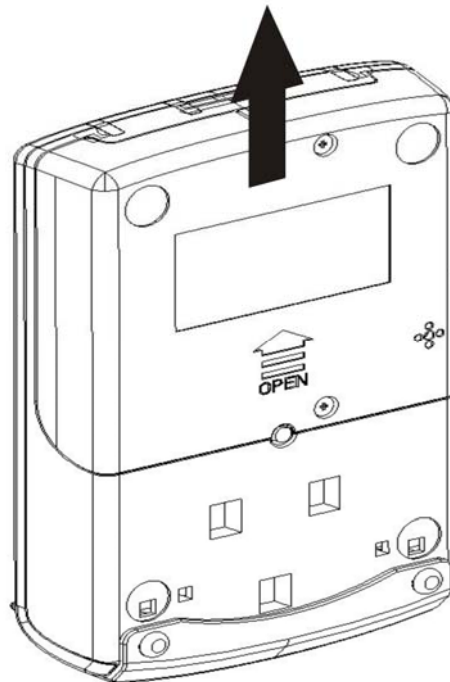
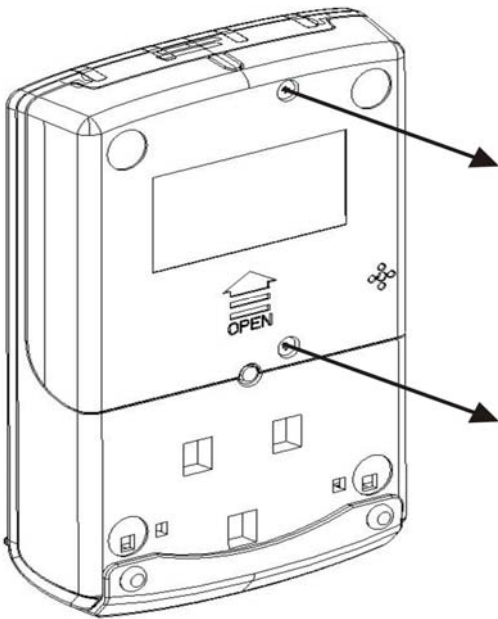
Step 5. Reinstall SAM card cover and screws back



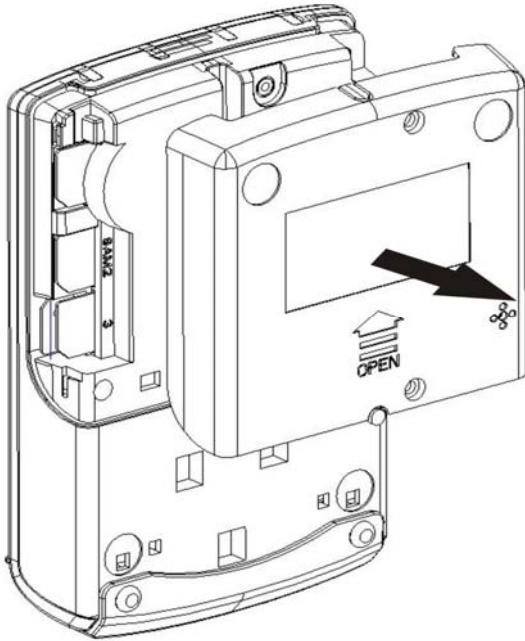
QP3000 SAM Card Installation Procedures

Step1. Unscrew SAM card cover screws

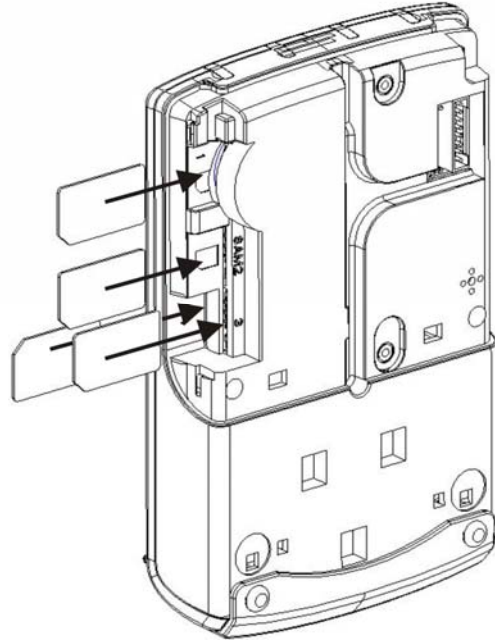
Step2. Push SAM card cover upward



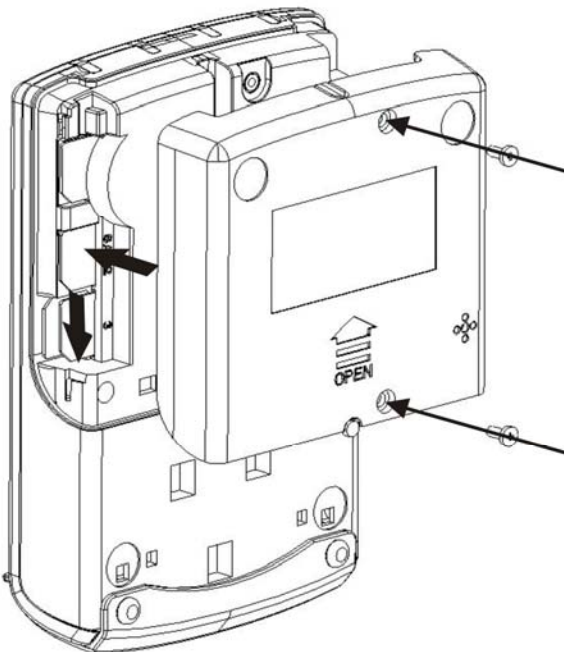
Step3. Remove SAM card cover



Step4. Insert SAM cards into SAM slots

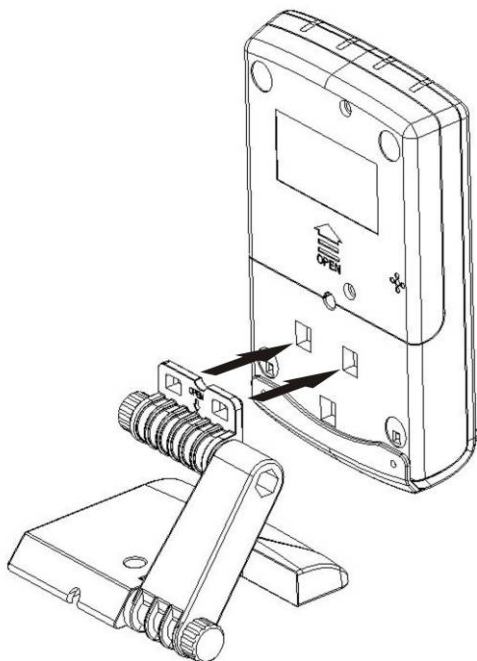


Step5. Reinstall SAM card cover and screws back

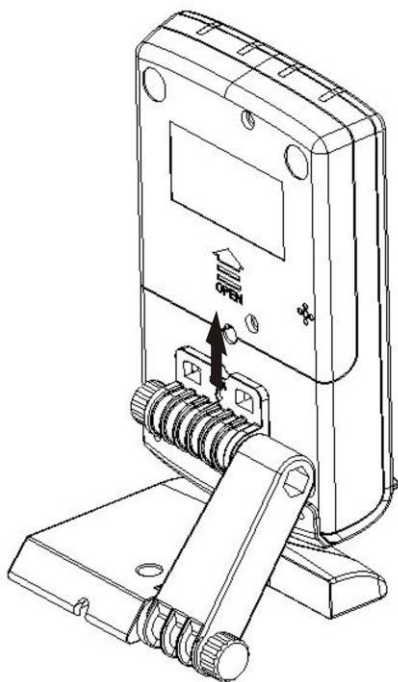


5.4 Reader Stand Installation

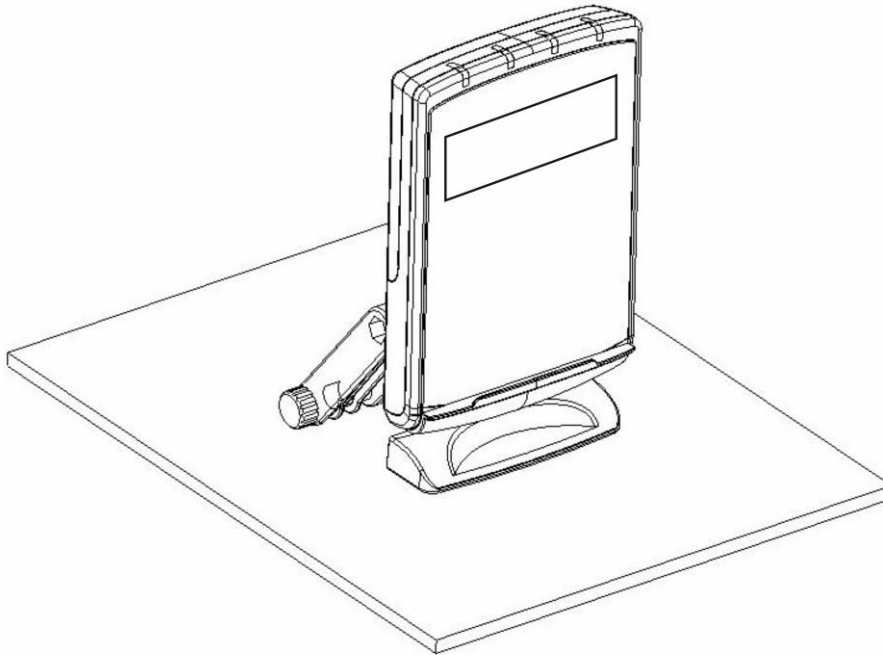
Step 1: Align and insert a reader stand to the fixture holes at the back of a reader



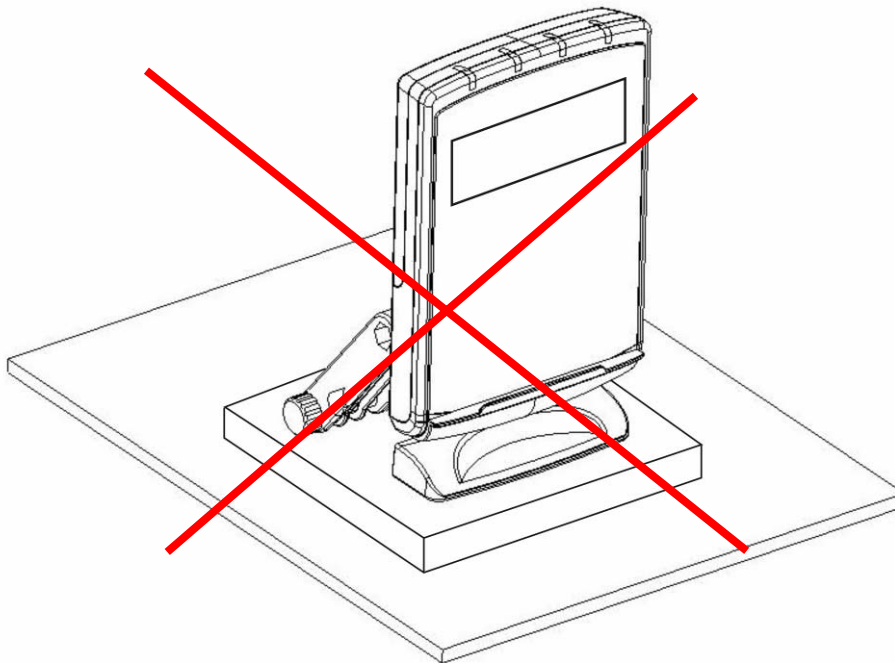
Step 2: Push the reader stand upward until hearing a click sound



5.5 Installation Notice



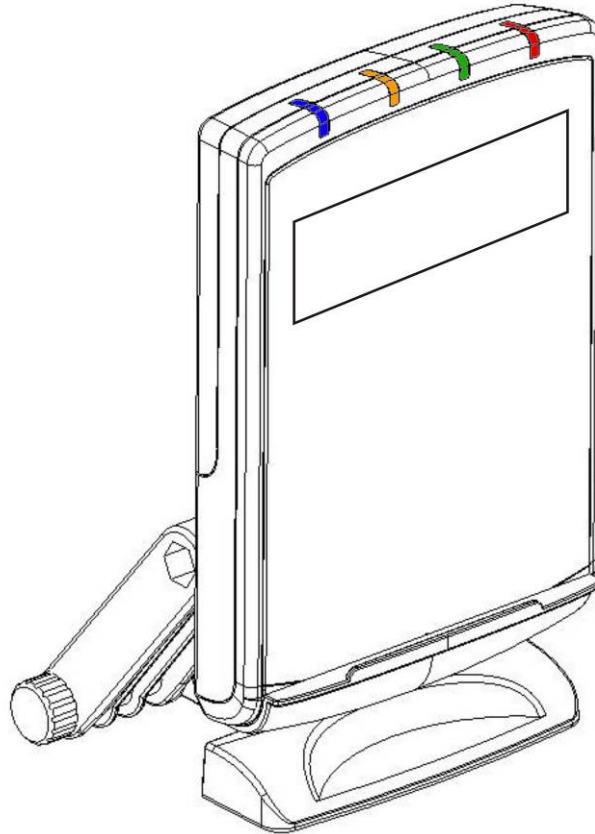
In order to avoid interference, do not place reader on metallic surfaces



6 LED Indicator

6.1 LED Indicator

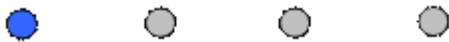
There are 4 LED indicators on a QProx. From left to right are blue, orange, green and red color LEDs



6.2 Status Description of LED Indicators

The states of the LED indicators are described below:

- After QProx is initialized and ready for transaction, the blue LED will light up. The blue LED indicates the reader is ready for contactless card transactions (Pay Pass, Visa Wave, JCB or others).



- The blue and yellow LED indicates that a card has been detected and the transaction process is started.



- The blue, yellow and green LED indicates a SUCCESSFUL transaction.



- The red LED indicates transaction FAILURE or malfunction.



7 Contactless Card Landing Zone

The Land Zone icon is printed on the center of working area, which indicates the correct location to detect user's card

