



## Datasheet (ver. 2.0)

| Product P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RWD-S064-Y61 | Product                                                                               | Single Door 5-in-1 Standalone Reader |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|--------------------------------------|
| <p>LF &amp; HF &amp; Remote Control <b>5-in-1</b> Standalone Reader</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>1. Keypad</b></p> </div> <div style="text-align: center;">  <p><b>2. EM</b><br/><b>3. HID (Wiegand 26)</b><br/><b>4. MIFARE</b></p> </div> <div style="text-align: center;">  <p><b>5. Secure Transmitter</b></p> </div> </div> |              |                                                                                       |                                      |
| <b>User Capacity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | <b>600</b>                                                                            |                                      |
| <b>Operating Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | <b>12~18VDC</b>                                                                       |                                      |
| Idle Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | < 65mA                                                                                |                                      |
| Active Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | < 100MA                                                                               |                                      |
| <b>Proximity Card Reader</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | <b>HID &amp; EM &amp; MIFARE® &amp; Secure Transmitter</b>                            |                                      |
| Radio Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              | 125KHz & 13.56Mhz & 433MHz                                                            |                                      |
| Read Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 2~6 cm (HID, EM, MIFARE®)<br>80 m (line of sight by secure transmitter)               |                                      |
| <b>Wiring Connections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | Relay output, exit button, alarm, door contact                                        |                                      |
| <b>Relay</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | <b>One (NO, NC, Common)</b>                                                           |                                      |
| Adjustable Relay Output Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | 1~99 Seconds (5 seconds default)                                                      |                                      |
| Lock Output Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              | 2 Amp Maximum                                                                         |                                      |
| <b>Wiegand Interface</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | <b>Standard Wiegand 26 bits</b>                                                       |                                      |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | <b>Meets IP66</b>                                                                     |                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | -40 °C ~ 60 °C (-40 °F ~ 140 °F)                                                      |                                      |
| Operating Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 10%RH ~ 98%RH                                                                         |                                      |
| <b>Physical</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | <b>Zinc-Alloy Enclosure</b>                                                           |                                      |
| Surface Finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | Powder Coating                                                                        |                                      |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | L148 x W56 x H22.5mm                                                                  |                                      |
| Unit Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | 500g                                                                                  |                                      |
| Shipping Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | 650g                                                                                  |                                      |
| <b>Tag Weight</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | <b>Secure Transmitter Weight: 45g</b><br><b>Other tags depending on material made</b> |                                      |

- Remote control is PLL (Phase Lock Loop) design, 433 MHz, stable with long range. Transmitter uses random code, 128 bits AES two ways encryption, cannot be counterfeit.
- MIFARE® is registered trademark of NXP B.V. and is used under license.



# Key Features

## 1. Product Features

| Benefit         | Secure Transmitter                                                                                              | Other remoters                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Confidentiality | Each product has unique Secure key to encrypt 96 Bits packet.<br>Absolutely not be the same as your neighbor's. | Only 32 bits of data are encrypted.                                                                                |
| Security        | Use AES to encrypt RF signal to avoid cracking.                                                                 | Can be duplicated.                                                                                                 |
| Energy Saving   | It could be used for four years (Press 20 times per day).<br>Low Voltage detection (option).                    |                                                                                                                    |
| Stability       | Transmitter will syn cyphertext with receiver, reducing the error caused by bad signal.                         | If the signal is not ideal, the system might have different syn number. User has to reset the whole remote system. |
| Convenience     | Encoding transmitter by near filed RF signal.<br>Do not need wire connection.                                   | User has to remove the shell and connect wire to encode remoter.                                                   |

## 2. Comparison table with Rolling code

|                               | Ours                   | Rolling code                     |                |                |
|-------------------------------|------------------------|----------------------------------|----------------|----------------|
|                               |                        | HCS200                           | HCS300         | HCS301         |
| ID Length                     | 48 Bits<br>Encrypted   | 28 Bits<br>Not encrypted         |                |                |
| Function key                  | 16 Bits                | 3 Bits                           | 4 Bits         | 4 Bits         |
| Status Bit                    | 16 Bits                | 1 Bit                            | 2 Bits         | 2 Bits         |
| Packet Bit/<br>Packet Period  | 96 Bits<br>83.4 ms     | 68 Bits<br>108 ms                |                |                |
| Length of<br>encrypted packet | 96 Bits                | 32 Bits<br>Constant ID encrypted |                |                |
| Pin assignment                | 8pins Custom           | 3pins Constant                   | 4pins Constant | 4pins Constant |
| IC packing                    | NSOP16                 | SOP8                             |                |                |
| Storage Bit                   | 16 Bit                 | N/A                              |                |                |
| Permission Bit                | 8 Bit                  | N/A                              |                |                |
| Wireless encoding             | Yes                    | N/A                              |                |                |
| RF Hardware                   | PLL Loop<br>280~970Mhz | N/A                              |                |                |