

# Multi-Card Technology Reader - 13.56MHz, DesFire EV1 / EV2 and EM / HID

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DFE-PROX-DUO



User Manual

Please read these instructions carefully before operating the unit  
and keep for further reference.

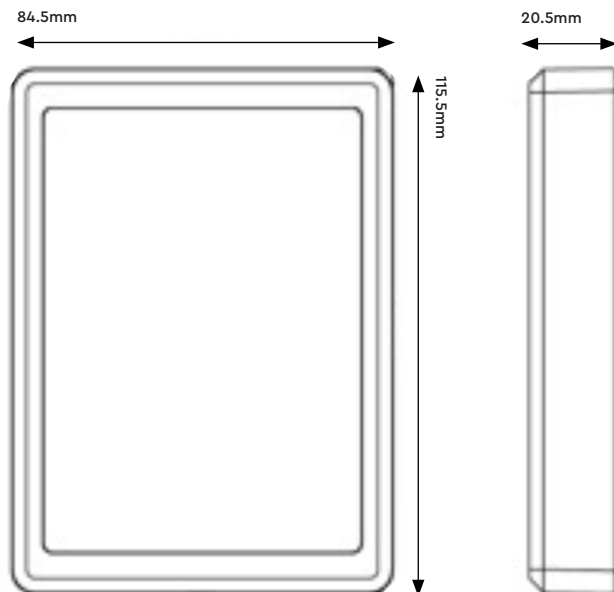
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The Genie DFE-PROX-DUO is a multi-card technology reader in a sleek design.

### 1.1 Product Features

- Read 125KHz HID Prox and EM card and read full UID (56bits) or files content of DesFire EV1/EV2 card, supports both 3DES and AES encryption, and reading the Mifare sector at the same time Read mobile NFC
- Support on-site Reader Configuration Card to change certain parameters
- Tamper protection
- Front plate customisation and back lit design is available
- IP65 ingress protection
- Metal back plate allows the reader install on metal surface and back-to back without affecting the read range
- Universal back plate allows the reader be installed on different size of gang box
- Reverse power protection
- All input and output signals are protected against static charges
- All inputs are DC12V protected

### 1.2 Product Dimensions

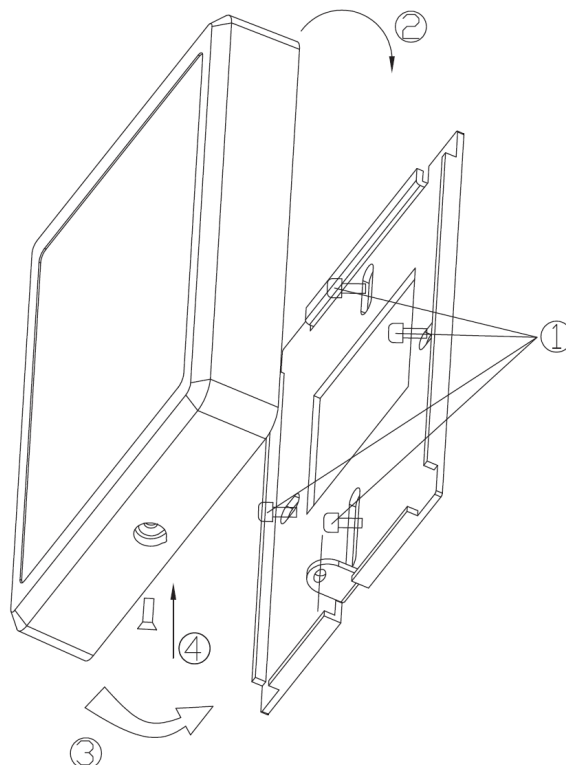


### 1.3 Specification

Re-configure Window	5 seconds (Default) or Half an hour after power up
Reader Output Format	CSN/UID 32bits, 34bits, 56bits (backward/forward), file content reading for programmed ID
Wiegand Plus Width	Different choices to fit with different controller's requirements
Buzzer Control	Reader & controller control (Default) or controller control only
LED/Back Lit Control	Define different LED colour response base on LED input
Typical Read Range	2 – 3 cm
Reader Standard Output	Wiegand (RS232 & RS485 (OSDP) (optional)
Wiring Distance	150m (22 AWG with shielded cable)
Operating Voltage	DC10 – 15V
Operating Current	150mA (max)
Operating Temperature	-30°C – 70°C
Operating Humidity	10% – 90%
Dimensions	115.5 × 84.5 × 20.5mm
Weight	210g

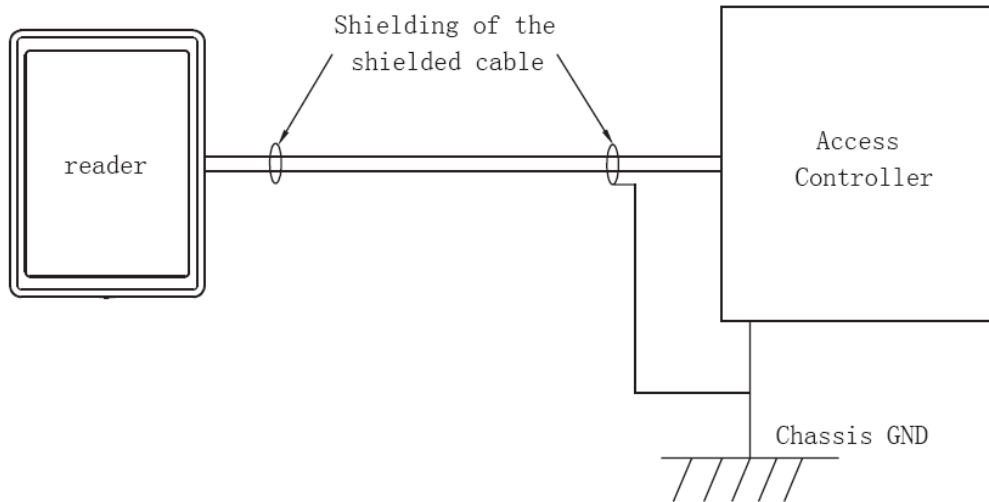
### 1.4 Mounting

1. Install the metal plate on the wall with two or four screws, which depends on different kinds of gang box being installed (1).
2. The cover shall clip on the upper edge (2) the push in the bottom part as show in diagram (3).
3. Tighten the secure non-dropout screw, which located underneath of the reader to fix the reader and the back plate (4), installation is completed.



### 1.5 Recommendation

1. Linear DC Power Supply.
2. 22AWG shielded cable, it's required to do "one-point" ground. (As shown in the diagram)



### 1.6 Wiring

Colour	Label	Description
Red	+12V dc	Power Supply to the reader
Black	GND	Signal GND
Green	Data0	Wiegand Output data, D0
White	Data1	Wiegand Output data, D1
Yellow	RED LED	RED LED control, active low.
Blue	Green LED	Green LED control, active low
Brown	Buzzer	Buzzer input, active low
Orange	Tamper	Tamper output (open collector, Active low, max 100mA)
Purple	Doorbell	Doorbell output (open collector, +5Vdc output ≤ 5mA)

### 1.7 Power Sequences

1. When reader is powered up, the Red back will flicker for 5 seconds. The reader will beep once and the reader is in Ready mode.
2. Present the card. The Blue LED will flicker once, buzzer will beep once.
3. When card is present and read by the reader, blue back lit will flash once; and buzzer will beep once as well. The card data will then transmit to the controller. After, weather the back lit of the reader will remain ON or Flash or change to Green or Red colour, this shall depend on the Green and Red LED inputs.
4. For number pad reader, when a number is pressed and successfully detected, the back lit under the number will flash 1 time and the buzzer will beep once. The number being pressed will burst out by default (4 bits burst).

## 1.8 Troubleshooting

### **No response when power up**

Discount the power and confirm that the power supply cable is correctly connected (See "Wiring" above).

Check the input voltage is sufficient (See "Specifications" above).

### **Auto Restart**

Check the input voltage is sufficient (See "Specifications" above).

### **Cannot read card number correctly**

Check the format setting on the controller if it is the same as the card format. Use approved card (known format and Facility Code) to test.

Check if the shield cable is correctly connected to Classis Ground at ONE point only.

### **Reader beeps but No card data info**

Check if data 0 & data 1 cable is correctly connected (See "Wiring" above).

Check the input voltage at the card reader end is correct (See "Specifications" above).

### **Buzzer error**

Check if the buzzer cable is correctly connected (See "Wiring" above).

### **Back lit error**

Check the Led cable is correctly connected (See "Wiring" above).

Use Default Configuration Card to set it back to normal.

### **Keypad no response**

Power off reader for 5 seconds and power on again

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