IP65 13.56MHz Proximity Reader

M-PROX-MUL

User Manual

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

genie

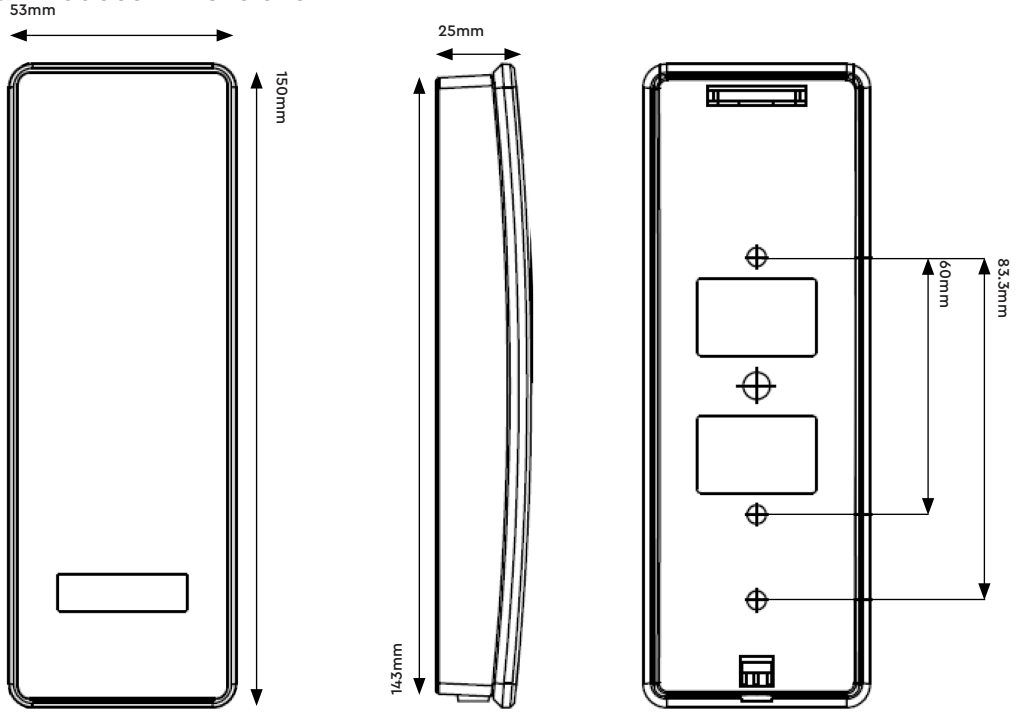
Contents

The Genie M-PROX-MUL is an IP65 mullion style access control reader designed to work with the13.56MHz frequency cards or fob technology. The reader emits a halo effect blue light when powered, turning green / red when a card / fob is presented. The reader also has tamper and reverse power polarity protection built in. Output technology is wiegand 32 bit meaning it will be compatible with many access control systems within the market and makes it a great choice for any installer looking for an aesthetically pleasing generic access control 13.56MHz reader.

1.1 Product Features

- Reader supports both CSN and Full UID 13.56MHz card / fob technology
- Static charge protection on input and output signals
- IP65 ingress protection
- RGB halo LED surround illumination
- Reverse polarity
- Tamper protection

1.2 Product Dimensions

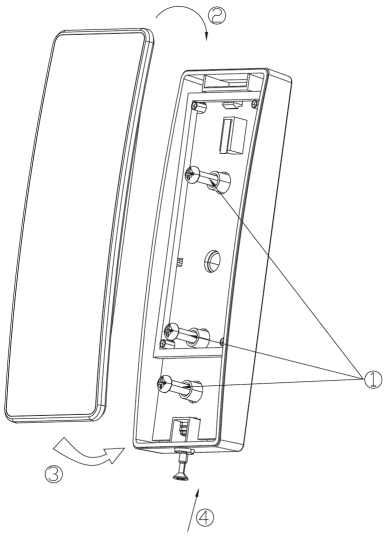


1.3 Specification

Reader Output Format	CSN/UID 26 bit (32 bit optional)
Reader Connection Type	40cm Fly Lead
Buzzer Control	Reader and controller control
LED / Back Lit Control	Defines different LED colour response based on LED input
Typical Read Range	3–5cm
Frequency	13.56MHz
Reader Standard Output	Wiegand 32 bit
Wiring Distance	100m (22AWG with shielded cable)
Operating Voltage	DC9–15V
Operating Current	120mA (Max.)
Operating Temperature	-30°C – 70°C
Operating Humidity	10% – 90%
Case Material	PC & ABS, Black
Dimensions	150 × 53 × 25 mm
Weight	180g

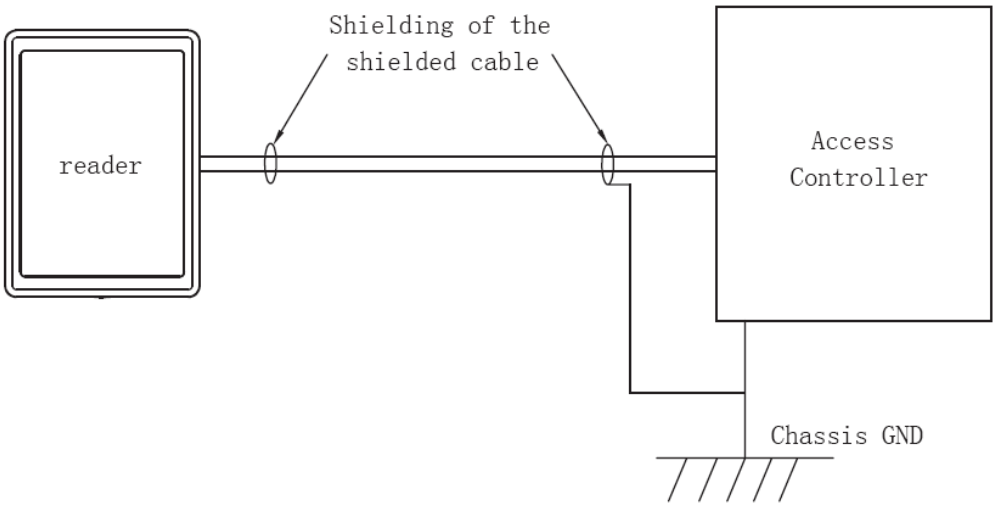
1.4 Mounting

1. Install the back plate on the wall as shown in the diagram below (1).
2. The cover shall clip on the upper edge (2) then push in the bottom part as show in diagram (3).
3. Tighten the 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	Door bell output (open collector, +5Vdc output ≤ 5mA)

1.7 Power Sequences

1. When reader is powered up, the Green 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, the card data will be transmitted to the controller. Whether the back lit of the reader will remain ON or Flash or change to Green or Red color, this depends 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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