

### Product features

The RX1 advanced access control reader is an elegantly designed unit, offering a wide range of output formats, and is ideal for surface mounting to most plain surface finishes, and also fits directly onto a UK or EU electrical backbox.

This powerfully secure, innovative and multi-technology reader has a beautifully clean aesthetic and includes, as standard, a pulsing RGB LED that can be applied to many applications, e.g., colour access levels, migration status or mood lighting.

The unit is moulded using tough polycarbonate plastic and includes a shadow line backplate, a subtle design mechanism that makes the reader, when fixed, appear to float against the wall.

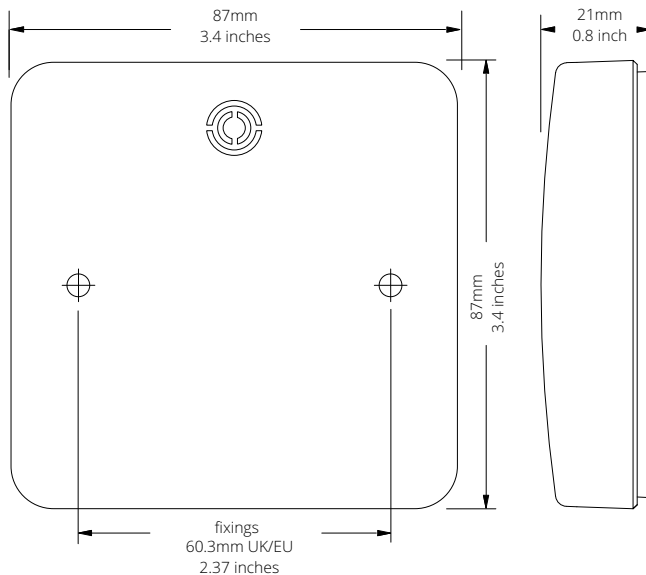
### Interfacing

This reader supports a wide variety of output formats allowing it to be used in most access control and related applications, e.g., time-and-attendance, cashless vending etc.

The combination of an integral speaker, RGB LED, three control inputs, and a variety of LED/buzzer/and external control options, provide a flexible platform to give the right user interface configuration for your project.

### Quality design

Third Millennium has more than 20 years of award-winning experience in the design and manufacture of RFID technology, and the delivery of world class, state-of-the-art access control projects to our many global partners.



# RX1



### Key Features

- Multi-technology
- UK design and manufacture
- Black high gloss finish
- Slim profile
- RGB LED
- Fully encapsulated electronics
- Optical tamper switch (RX190PLUS)
- Wide range of output formats
- Read range up to 10cm (4 inches)
- 5 year limited warranty
- Wall spacer or backbox fitting (optional extra)

### Technologies supported



MIFARE Classic®  
MIFARE®DESFire®  
CSN or Sector data

Registered Partner



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Our 125kHz Proximity readers are capable of supporting:



- EM variants
- HID® Proximity Compatible
- KANTECH Compatible
- FARPOINTE Compatible
- AWID Compatible
- CASI Compatible

... and other widely used 125kHz Proximity technologies.



### CUSTOMER CONFIGURATION

All our readers are fully configurable to your specification and requirements.



reader credential solutions

technology access control readers credentials

Depending on the level of reader design you choose, a variety of control outputs can be applied, including multiple card formats, LED colours and external control options.

# Specifications



## Mechanical

Dimensions:	87 x 87 x 21 mm (3.4 x 3.4 x 0.8 inches)
Housing:	Moulded polycarbonate
Mounting:	Suitable plain surface
Fixing holes:	4mm., maximum diameter + UK / EU electrical backbox

## Environmental

Operating Temperature:	-35°C to +66°C
Humidity:	85±5% at 30±2°C (86±3°F)
Ingress protection:	IP65

Our readers are fully configurable to your requirements, and using our - [Reader Credential Solutions](#) we can offer and supply an integrated package of RFID technologies, control readers, RFID cards, fobs and accessories.



## Electrical

Voltage:	+10Vdc to +16Vdc
Current:	see table below
Data Voltage:	Rest >4Vdc / Active <1Vdc
Data Output:	Wiegand, Clock and Data, *OSDP
Indication:	1 RGB LED
Sounder:	Integral speaker

## Connection



## \* Connection

1 - +Vdc	Supply voltage (+10 - 16Vdc)	1 - 0V	Supply voltage ground
2 - DATA1/CLK	Wiegand or Clock/Data output	2 - +Vdc	Supply voltage (+10 - +16Vdc)
3 - DATA0/DAT	Wiegand or Clock/Data output	3 - DATA1/CLK	Wiegand or Clock/Data output
4 - GREEN	Green LED control input	4 - DATA0/DAT	Wiegand or Clock/Data output
5 - RED	Red LED control input	5 - GREEN	Green LED control input
6 - BUZZER	Buzzer control input	6 - RED	Red LED control input
7 - TMPR/CP	Tamper or Card Present output	7 - BUZZER	Buzzer control input
8 - 0V	Supply Voltage Ground	8 - TMPR/CP	Tamper or Card Present output
9 - TTL TX	TTL transmit line	9 - RS485-	RS485 Bus
10 - TTL RX	TTL receive line	10 - RS485+	RS485 Bus

## Certifications

FCC Part 15 | CE marked | RoHS | WEEE

## Technology options, output and RFID card solutions (standard configurations)

part No.	frequency	current mA	technology	data output	keypad output	optical tamper	RFID card
<b>RX100</b>	125kHz	250	HID® Prox + EM variants	Data Pass Through (Wiegand / C&D)	N/A	N/A	PC03
<b>RX180</b>	13.56MHz	?	MIFARE® Sector	Data Pass Through (Wiegand / C&D)	N/A	N/A	PC08
<b>RX180PLUS</b>	13.56MHz+125kHz	?	MIFARE® Sector + HID® Prox	Both Data Pass Through (Wiegand / C&D)	N/A	N/A	PC38
<b>* RX190</b>	13.56MHz	?	MIFARE® DESFire®	Data Pass Through (Wiegand / C&D)	N/A	ENABLED	PC09
<b>* RX190PLUS</b>	13.56MHz+125kHz	?	MIFARE® DESFire® + HID® Prox	Both Data Pass Through (Wiegand / C&D)	N/A	ENABLED	PC39
<b>* RX190/OSDP</b>	13.56MHz	?	MIFARE® DESFire®	Data Pass Through 	N/A	ENABLED	PC09
<b>* RX190PLUS/OSDP</b>	13.56MHz+125kHz	?	MIFARE® DESFire® + HID® Prox	Both Data Pass Through 	N/A	ENABLED	PC39

- PLEASE CALL to discuss your CUSTOM CONFIGURATION or LEGIC® reader requirements.

## The RX SERIES of access control readers



**RX1**   **RX1K**   **RX2**   **RX3**   **RX3K**   **RX4**   **RX6**   **RXSK**   **RXU**   **RXswitch**   **OC1**

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