# **INSTALLATION GUIDE**



# **SPECIFICATIONS**

### Performance Level for Access Control

This product complies with the following 294, 7th edition Access Control Performance Levels:

**Feature** 

Standby Power Endurance

Line Security Destructive Attack

See the UL listed access control unit controller installation instructions for reader compatibility

### **Environmental**

Operating Temperature -31°F to + 151°F (-35°C to +66°C)

Humidity 86 +3°F (85 ±5% at 30 ±2°C)

Ingress Protection IP65 (not evaluated by UL)

Suitable for OUTDOOR use. Positioning

**Electrical** 

Power is to be provided by a UL 294 Listed, Power supply

low-voltage Class 2 Limited Power Supply or

controller, capable of 4 hours standby.

+5Vdc to +16Vdc Voltage

Current maximum average measured at 10Vdc

Model	Normal Standby mA	Operating mA
RX190B	30	65
RX1K90B	50	110
RX290B	30	65
RX390B	30	65
RX3K90B	50	110
RX490B	30	65

Data Voltage Rest >4Vdc / Active <1Vdc

Data Output Wiegand, Open Supervised Device Protocol

(OSDP), OSDP Secure Channel (SC), F/2F

Indication

(+ RGB LED keypad to RX1K90B & RX3K90B)

Sounder Integral speaker

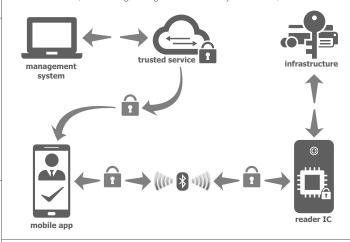
# LEGIC Connect® Security Platform

Bluetooth® 4.2 for use with:



- LEGIC Connect® API for:
- iOS version 10.0 and later
  - Android OS version 6.0 and greater

The Bluetooth word, mark and logo are registered trademarks of Bluetooth SIG, Inc.



### **Dimensions**

Model	Size - millimetres (inches)
RX190B	87 x 87 x 21 (3.4 x 3.4 x 0.8)
RX1K90B	87 x 87 x 21 (3.4 x 3.4 x 0.8)
RX290B	144 x 54 x 21 (5.7 x 2.1 x 0.8)
RX390B	120 x 76 x 21 (4.7 x 3.0 x 0.8)
RX3K90B	120 x 76 x 21 (4.7 x 3.0 x 0.8)
RX490B	96 x 52 x 21 (3.8 x 2.1 x 0.8)

### Wiring

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

Cable length Up to 492 feet (150m) from controller.

### **Recommended for Wiring**

BELDEN 953x (or equivalent UL listed) for Wiegand and (S)F/2F. Cable type

BELDEN 9502 (or equivalent UL listed) for RS-485.

Minimum wire size Not less than 24 AWG.

Shielding Connect the reader's ground wire to cable shielding

and connect shield wires at the microcontroller

All cables and wiring must be UL listed and suitable for use.

Installation of readers should be carried out by a suitably qualified engineer.

Readers are certified to be installed up to a height of 2 metres (approximately 79 inches).

It is recommended to install readers at a height of between: 1.2 metres - 1.5 metres (approximately 47 inches - 59 inches).



# **RX190B**

13.56MHz LEGIC Connect® BLE (2.4GHz) Wiegand and OSDP outputs



### RX1K90B

13.56MHz LEGIC Connect® BLE (2.4GHz) Wiegand and OSDP outputs



## **RX290B**

13.56MHz LEGIC Connect® BLE (2.4GHz) Wiegand and OSDP outputs



### **RX390B**

13 56MHz LEGIC Connect® BLE (2.4GHz) Wiegand and OSDP outputs



# RX3K90B

13 56MHz





# **RX490B**

13.56MHz LEGIC Connect® BLE (2.4GHz) Wiegand and OSDP outputs



The illustrations and notes below are provided as a general guidance for mounting, fixing and connecting the RX series of RFID readers.

Always consult your installer and the manufacturer's details of your door controller when configuring your access security system.



2

3



5





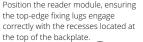
Mount the reader backplate to a flat surface using suitable hardware having a diameter no greater than 4mm (0.15inch).



Make terminal block connections in accordance with the pin-out wiring diagram shown below.

To avoid damaging the screw heads, use a 2.5mm flat head screwdriver only.

1	0	•	0V	Supply voltage ground
2	0	•	+Vdc	Supply voltage (+5Vdc to +16Vdc)
3	0	•	DATA1/CLK	Wiegand or Clock & Data output
4	0	•	DATA0/DAT	Wiegand or Clock & Data output
5	0	•	GREEN	Green LED control input
6	0	•	RED	Red LED control input
7	0	•	BUZZER	Buzzer control input
8	0	•	TMPR/CP	Tamper or Card Present output
9	0	•	RS485 -	RS485 Bus
0	0	•	RS485 +	RS485 Bus





Swing the bottom edge of the module down and forward until you feel the unit click shut.



Secure the reader module to the backplate using the M3x10mm screw supplied.



If required, you may use an M3x10mm security screw (not supplied).

UTJ-PRX60BLE
IC: 21820-PRX60BLE

These devices comply with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

this device may not cause harmful interference, and
 this device must accept any interference received, including interference that may cause undesired operation.

backplate correctly.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not

Changes or modifications not expressly approved by the party responsible for compliance would void the user's authority to operate the equipment.

This device complies with Industry Canada's licence-exempt RSSs.

be co-located or operating in conjunction with any other antenna or

Operation is subject to the following two conditions:

transmitter.

- (1) this device may not cause harmful interference; and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.



Together with information provided by suppliers and subcontractors, these devices comply with the requirements and relevant provisions of:

EU Directive 2011/65/EC.



These RFID proximity readers comply with the essential requirements and relevant provisions

EU Directive 2014/53/EC



This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead, it is your responsibility to dispose of your waste equipment by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment. By separating and recycling your waste equipment at the time of disposal you will help to conserve natural resources and ensure that the equipment is recycled in a manner that protects human health and the environment.

EU Directive 2012/19/EU







