

proxy

User Manual and Installation Guide

Proxy Mobile Reader Edge

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Introduction

This document details the Proxy Mobile Reader Edge and its basic operational and installation procedures. It covers the details of the Proxy Mobile Reader Edge form-factor.

Model:

Proxy Mobile Reader Edge (White)

Proxy Mobile Reader Edge (Black)

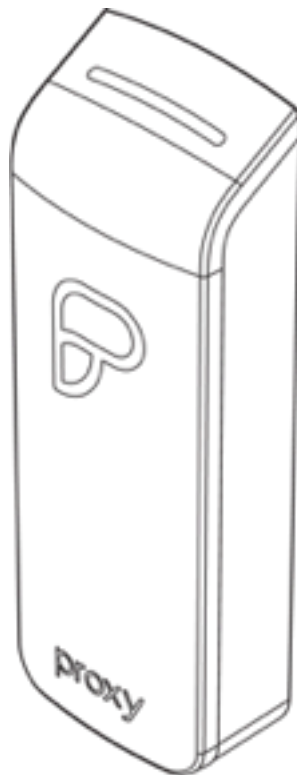
The product comes in one variant in functionality: Standard BLE IEEE 802.11b/g/n

Reader

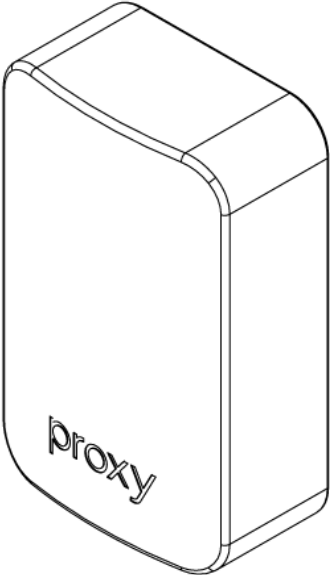
Functionality

Proxy Mobile Reader Edge is a standalone physical access control wireless mobile credential reader that provides contactless credentials over BLE. The reader interfaces directly with electrified door hardware to allow direct access to a single point of entry. The reader consists of the following main parts.

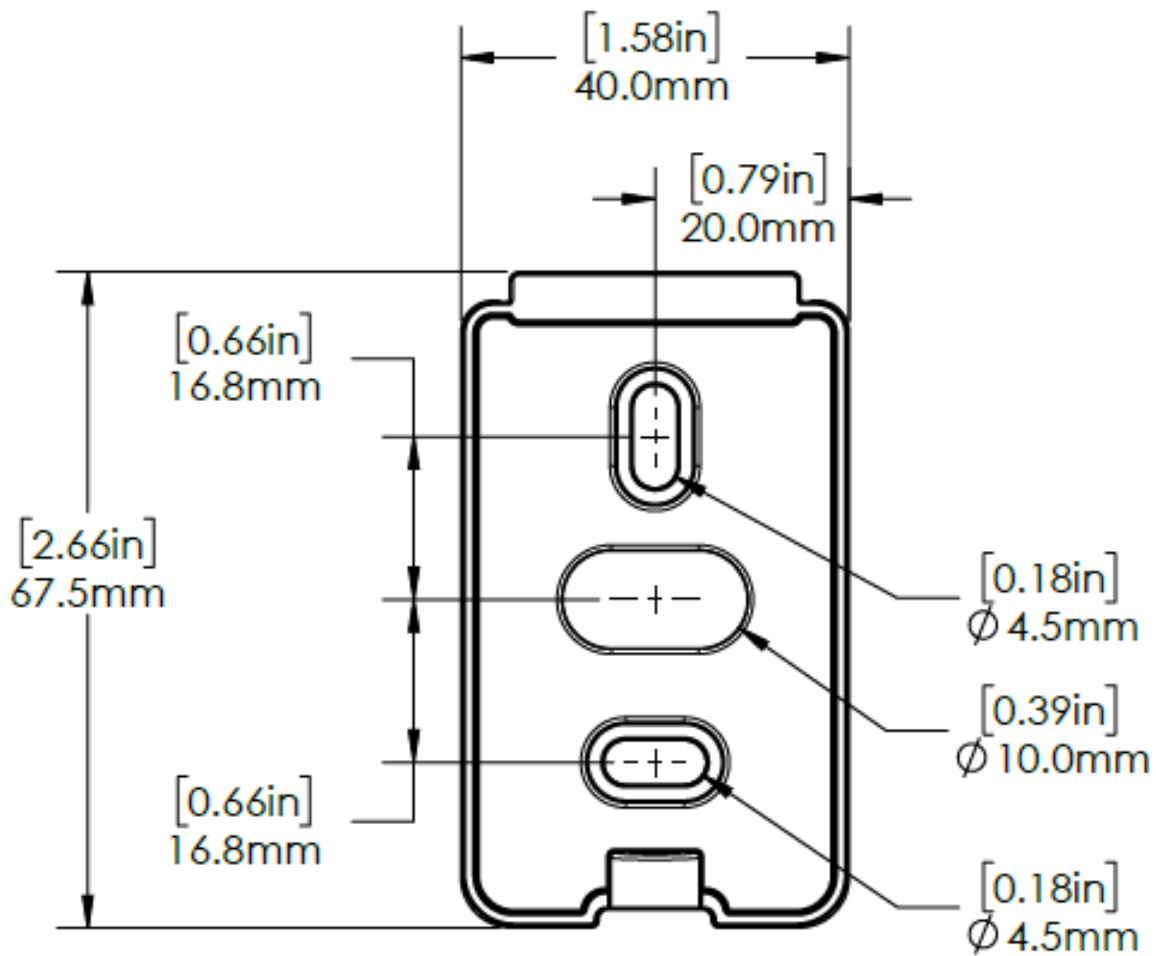
Proxy Mobile Reader Edge Main Housing



Proxy Mobile Reader Edge Relay Housing



Proxy Mobile Reader Edge Relay Wall Plate



Dimensions in millimeters (mm) & inches (in)

Product Details

Model Name:	Proxy Mobile Reader Edge
Device Type:	Mobile Credential: BLE (2.4GHz) Physical Access Control Reader (accessory equipment)
Type of Equipment:	Sealed Reader Unsealed Relay Suitable for Indoor use
Interface Type:	Pigtail Cable Main Housing [5 Core Grey] Pigtail Relay Housing [5 Core Grey, 8 Core Black]
Electrical Rating:	6V - 30V DC, 500mA, 12V (recommended), 6W (max)
Relay Rating:	30V 2.5A continuous, 5A peak
Communication Protocol:	BLE, IEEE 802.11b/g/n*, UART**
Credential Type:	Proxy Mobile Credential
Credential Transmission Technology:	BLE (2.4GHz)
Dimensions (Main Housing):	128.3 mm x 44.7 mm x 24.6 mm (H x L x W)
Dimensions (Relay Housing):	72 mm x 44.5 mm x 23.9 mm (H x L x W)
Product Weight:	308 g

* IEEE 802.11b/g/n communications are not required for operation, and are used for non-critical functions (firmware updates, telemetry).

** Tested in lab conditions up to 115Kbaud.

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Product Specifications

Model	Operating Voltage	Current Rating	Operating Temp.
Proxy Mobile Reader Edge BLE IEEE 802.11b/g/n	6V - 30V DC	500mA @ 12V	-35C to +66C, 85% RH

Note: The Standby Power level is dependent on the external power source connected to the Proxy Mobile Reader Edge.

Installation Details

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

Parts List

- Proxy Mobile Reader Edge— 1
- Proxy Mobile Reader Relay — 1
- Mounting Screws (A) — #6-32 x 1" — 4 Nos
- Security Screw (B) — #6-32 x 3/8" — 2 Nos
- Nylon anchor plugs — #6 x 1" — 4 Nos

Recommended Infrastructure

- All cabling and wiring shall be UL Listed and/or UL Recognized
- Recommended 22AWG Shielded cable (ALPHA WIRE, P/N 1299/10C)

Wiring Harness Information

Cable colors for Main Housing [5 Core Grey]

Name	Colors	Colors	Sheath Color
UART TX	Green		
UART RX	White		
5V	Red		
3V3	Yellow		
GND	Black		

Cable colors for Relay Housing [5 Core Grey]

Name	Colors	Colors	Sheath Color
UART RX	Green		
UART TX	White		
5V	Red		
3V3	Yellow		
GND	Black		

Cable colors for Relay Housing [8 Core Black]

Name	Colors	Colors	Sheath Color
PWR	Red		
GND	Black		
Strike +	Green		
Strike -	White		
Rex +	Brown		
Rex -	Blue		
DPS +	Grey		
DPS -	Grey		

** For Wiring diagrams and termination points please see the full installation manual available on our website.

Installations will differ between electronic strike manufacturers and applications.

** All wires not being used should be terminated.

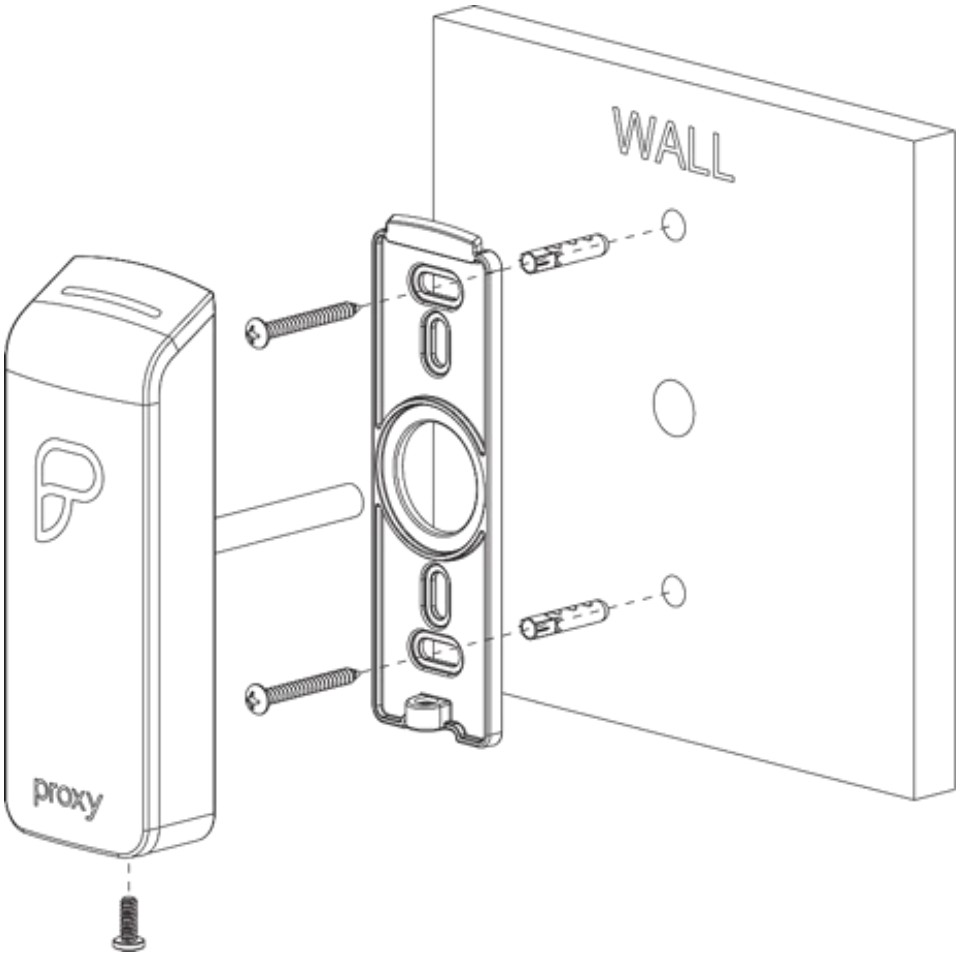
** Refer to online documentation for operation of DPS + and DPS -.

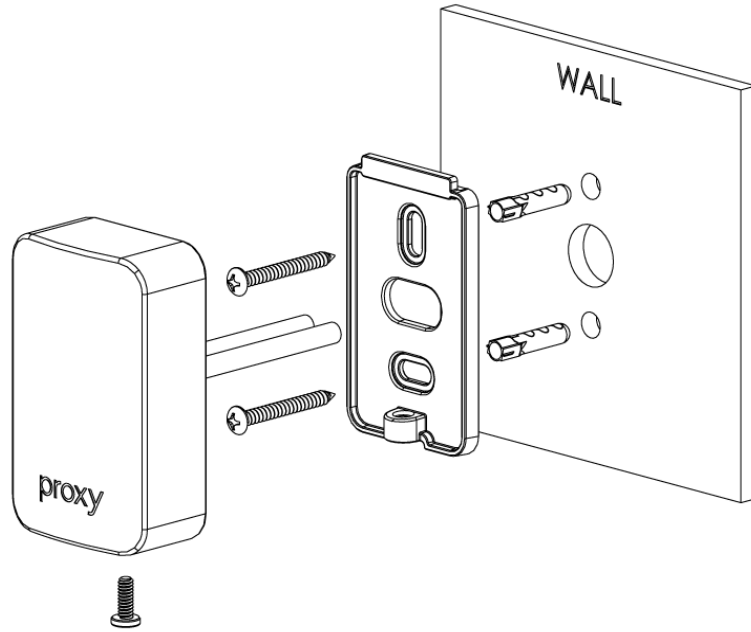
Caution:

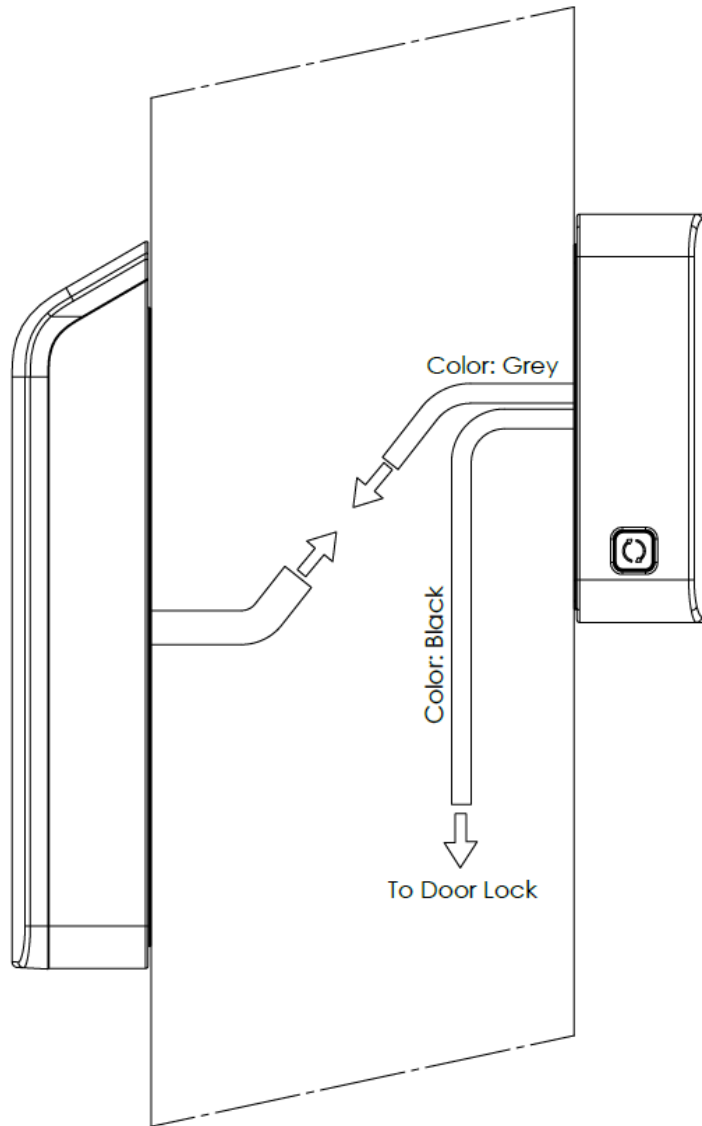
During wiring make sure that the PWD, 5V, and 3V3 lines (red or yellow) do not make contact with any other wires, as it might affect product functionality and cause damage to the product.

Mounting the Reader

Location of mounting holes on wall





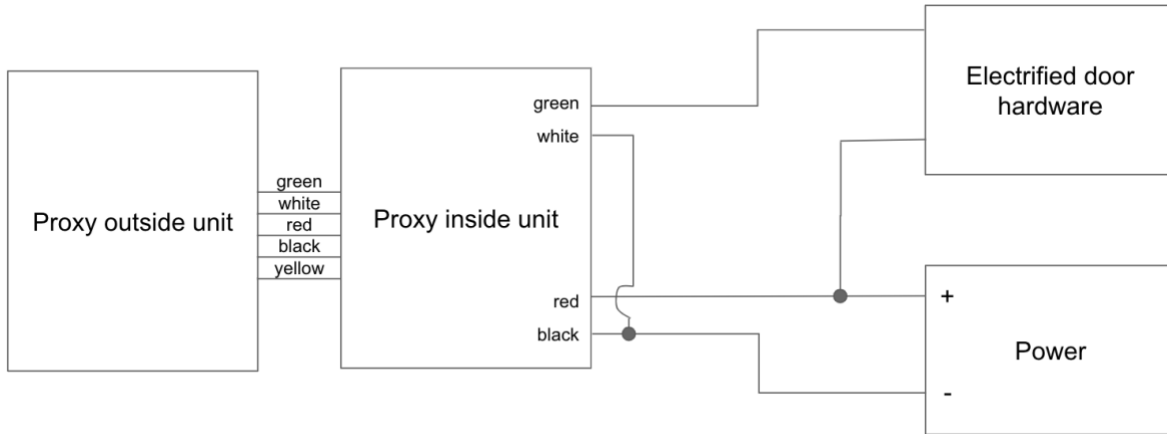


Reader Installation Steps

- Make two holes on the wall as per the image above corresponding to the type of reader.
 - Main housing on the unsecured side (outside of the door frame)
 - Relay housing on the secured side (inside of the door frame)
- Insert the nylon screw plugs into the wall.
- Connect the wires as per the tables in Section 5.4.3
 - Note: Cables with the grey sheath [5 Core Grey] are to be connected color to color
- Proxy Mobile Reader Edge main and relay housing wall plates are to be secured onto the wall using the mounting screws (A)
- Install the main and relay housings onto respective wall plates
- Secure the main and relay housings to the wall plates using security screws (B)

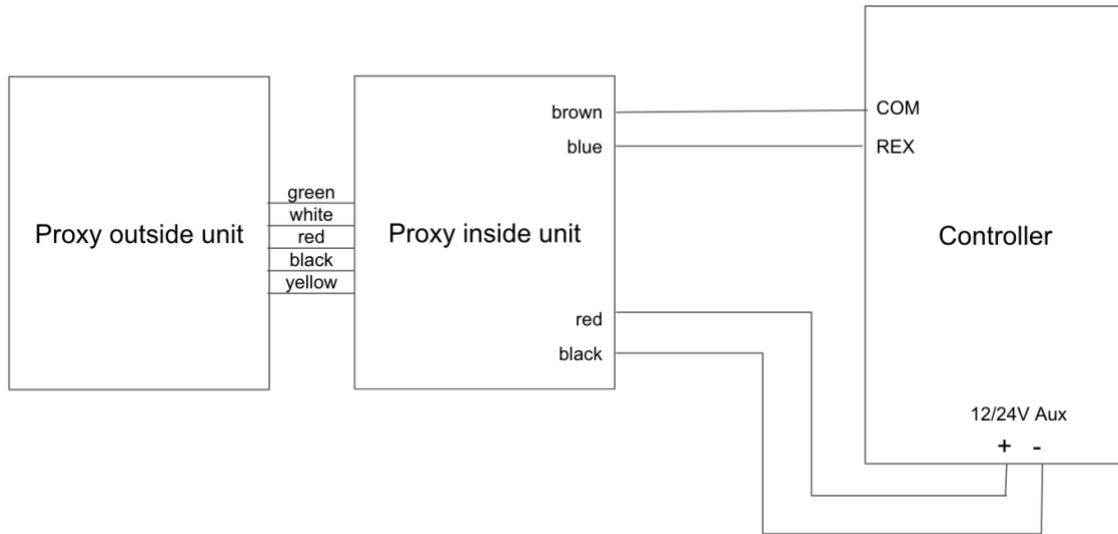
Wiring Diagrams and Steps

Connect to Door Hardware



Step 1:	Connect the 5 wires from the Main Housing (outside) unit to the 5 wires from the Relay Housing (inside) unit based on corresponding colors
Step 2:	Crimp the positive (red) wire from the power source to the red wire of the Relay Housing (inside) unit and to one of the wires from the strike
Step 3:	Crimp the ground (black) wire from the power source to the black wire of the Relay Housing (inside) unit and to the white wire of the Relay Housing (inside)
Step 4:	Crimp the green wire from the Relay Housing (inside) unit to the remaining strike wire

Connect to Access Controller



Step 1:	Connect the 5 wires from the Main Housing (outside) unit to the 5 wires from the Relay Housing (inside) unit based on corresponding colors
Step 2:	Connect the brown and blue wires of the Relay Housing (inside) unit to the two wires from the REX input of the access controller
Step 3:	Connect the black (GND) and red (PWR) wires to a power source (this could be provided by the controller) equivalent to what is needed to power the electrified lock

Door Contacts

The DPS+ and DPS- lines are intended for use with door contacts. For install instructions and current status, please visit: https://proxy.com/s/Edge_Install.

Power up and Testing

1) Turn power on

- Indicator light (top of housing) turns on and blinks red
- Branding light (front of housing) turns on (Proxy Logo Displayed)

2) Present a phone with Proxy ID App installed and enabled

- Access Granted: Indicator light blinks green and a short beep is emitted
- Access Denied: Indicator light blinks red and a double short beep is emitted

This is the default reader behavior.

Certifications

FCC

Tune up power table BLE / WLAN

- Each product is programmed with the pre-defined RF parameters
- Each product RF power level is measured to ensure the power level not exceeding the target power level, in a fully calibrated setup.
- The user has no possibility to change these settings later on

Please find below the **Maximum** Transmit Power for production units:

<For Type1LD>

Band / Mode	Average Power (dBm)		
	LE		
	GFSK		
Bluetooth	7		

Band / Channel / Frequency (MHz)	IEEE 802.11 Average Power (dBm)		
	11b	11g	HT20
2.4GHz WLAN	17	17	17

<For XRBH-1>

Band / Mode	Average Power (dBm)		
	LE		
	GFSK		
Bluetooth	5		

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Information to user

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Proxy, Inc. could void the user's authority to operate the equipment.

IC

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Informations d'exposition RF

Cet appareil a été testé et répond aux limites applicables en matière d'exposition aux radiofréquences (RF).

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

CE

Tune up power table BLE / WLAN

- Each product is programmed with the pre-defined RF parameters
- Each product RF power level is measured to ensure the power level does not exceed the target power level, in a fully calibrated setup.
- The user has no possibility to change these settings later on

Please find below the **Maximum** Transmit Power for production units:

<For Type1LD>

Band / Mode	Average Power (dBm)		
	LE		
	GFSK		
Bluetooth	8.2		

Band / Channel / Frequency (MHz)	IEEE 802.11 Average Power (dBm)		
	11b	11g	HT20
2.4GHz WLAN	9.3	9.3	9.1

<For XRBH-1>

Band / Mode	Average Power (dBm)		
	LE		
	GFSK		
Bluetooth	1.0		

Hereby, Proxy, Inc. declares that the radio equipment type Proxy Mobile Reader Edge is in compliance with Directive 2014/53/EU.

Please scan the barcode on the label to view the user guide.



	<p style="text-align: center;">Waste Electrical and Electronic Equipment (WEEE)</p> <p>his symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.</p>
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UL294

All terminals are Power Limited / Class 2 circuits.

UL294 access control performance levels

- Destructive attack: Level I
- Line Security: Level I
- Endurance: Level I
- Standby Power: Level I