



INSTALLATION INSTRUCTIONS

RBand for Doors



MODEL: RB-P-K20, RB-TX20

WARNING

Read and understand all instructions before beginning installation. Disconnect power to motor and test upon completion. Wireless products should be installed by qualified personnel to ensure the requirements herein have been met. Keep these instructions with the installation. Always abide by local and national electrical code specifications when wiring accessories to motor controls.

The Miller Edge RBand Monitored Wireless Door Edge System is intended to provide a wireless connection between a **T3 DC** monitored sensing edge and a motorized operator installed with a garage door or grille. RBand meets the UL 325 requirements for monitored devices and has been certified as a UL 325 Recognized Component. It is designed for use with operators that comply with UL 325 using a Miller Edge T3 Sensing Edge. Consult your operator manual for detailed instructions about connecting to the motor.

KIT CONTENTS

- RBand Edge Transmitter (RB-TX20)
- RBand Door Edge Receiver (RB-P-RX10)
- (2) 3.6V AA lithium batteries*
- (4) #6 pan head transmitter mounting screws

*Replacement **3.6V AA lithium batteries** can be purchased at your local electronics store or via Miller Edge.

REQUIRED

- 1/8" flat blade screwdriver
- 1/4" flat blade screwdriver
- Miller Edge DC(T3/Red Band) Sensing Edge

RECOMMENDED

- Edge tester MET-101
- Mounting screws as required for receiver

I. RECEIVER INSTALLATION

1. Turn off power to the door operator.
2. Remove Receiver cover and mount the receiver base near the operator, where it will be in line of sight with the transmitter for the entire range of travel [IMAGE 1].
3. Connect power (12-24 VAC/DC) to the terminals marked power, noting the +/- polarity. 24 VAC power can be connected either way not polarity sensitive [IMAGE 2].
4. Connect both PE1 and PE2 to the photo-eye inputs on the operator. N/A is not used.
5. Replace the Receiver cover and turn on power to the operator. Note: it takes ~5 seconds for the Receiver to initialize.

Note: RBand Door Edge Receiver is compatible with up to 3 RBand Transmitters.

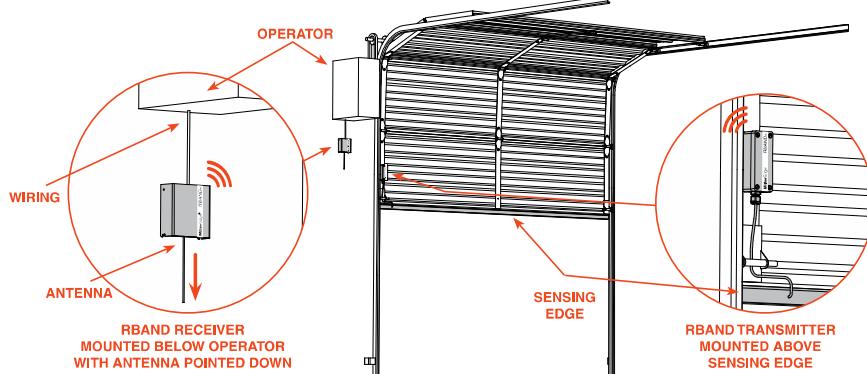
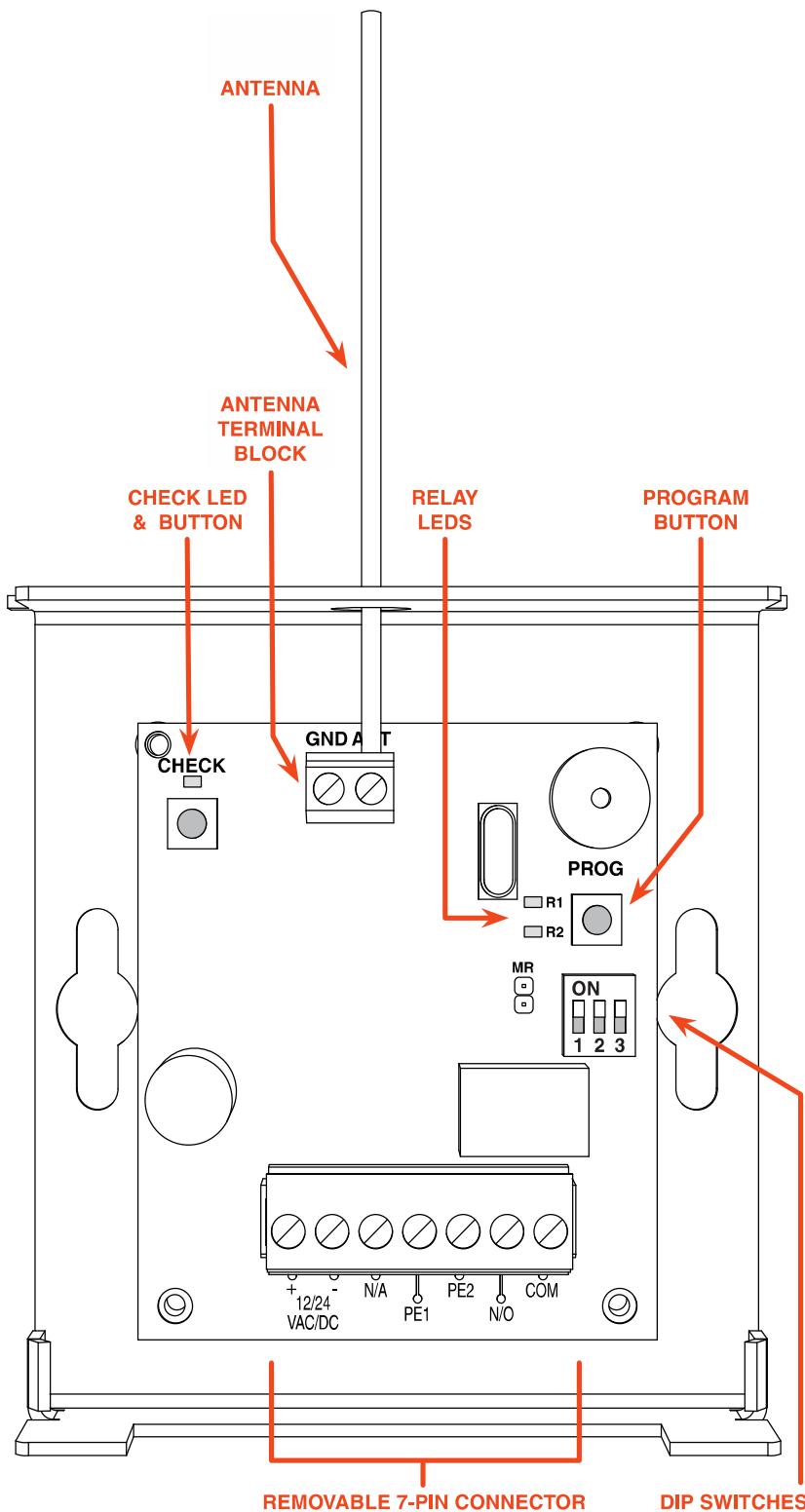


IMAGE 1. Door Installation with RBand Transmitter & Receiver

RB-P_INST_20210720



LED INDICATORS

Initial Power

- No Transmitters Programmed: R1 LED on

R1 LED (1 edge connected)

- Programmed: Off
- Fault Condition: On

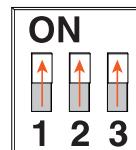
Check LED

- Programmed: Check LED flashes every 5 seconds

R2 LED

- Not used

DIP SWITCH SETTINGS

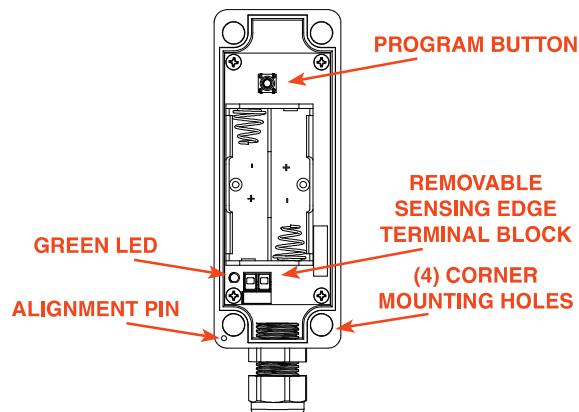
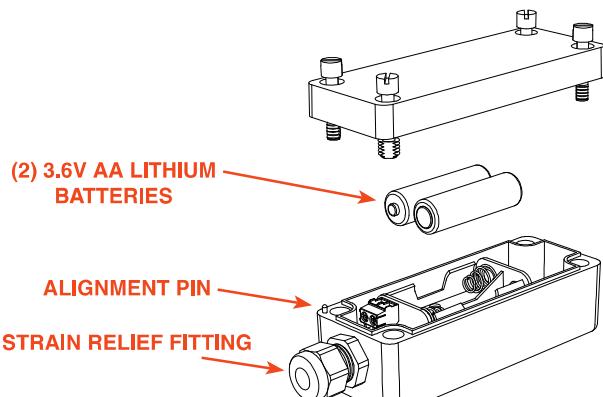


Leave switches in factory default settings (all on).

7-PIN CONNECTOR

+12/24 VAC/DC	► Constant power source
-12/24 VAC/DC	► Constant power source ground
N/A	► Not used
PE1	► P.E. input terminal
PE2	► P.E. input terminal
N/O	► Normally open
COM	► Relay common

IMAGE 2. RBand Door Edge Receiver PCB & Connections



II. TRANSMITTER: PROGRAM MODE

1. Confirm the Receiver is powered up. Prior to mounting the Transmitter, remove the cover and insert the batteries, noting their polarity [IMAGE 3]. The **green LED** should blink to indicate that the Transmitter has not been associated with the Receiver yet.
2. To enter **learn** mode, press and hold the Receiver **program button** [IMAGE 2] for ~2 seconds until the **R1 LED** turns on, then release the button.
3. Press the Transmitter **program button** [IMAGE 3] for ~2 seconds. The Receiver should **beep**. Wait 10 seconds for an additional **beep** to indicate that programming is complete.
4. Repeat 3-2 and 3-3 for up to 3 Transmitters.

III. TRANSMITTER: INSTALL & TEST

1. Strip back approximately 2 inches of outer covering of sensing edge cable, then feed through the Transmitter **strain relief fitting** [IMAGE 3]. Connect the two sensing edge wires to the removable terminal. Dress the wires with a small service loop and tighten the strain relief. Mount unit utilizing the mounting holes at the 4 corners of the Transmitter box. Return lid to Transmitter, noting the **alignment pin** [IMAGE 3].
2. Test the sensing edge for functionality: press the sensing edge and the Receiver **R1 LED** will turn on.

IV. TROUBLESHOOTING

If the Receiver does not react to the Transmitter, you can check the RF signal strength:

1. Press the **check button** on the Receiver for ~2 seconds [IMAGE 2]; 4 beeps will be heard. You then will hear a beep every 1-1/2 seconds during the **check** process. Wait about 30 seconds; if no other beeps occur, your system is functioning. 3 quick beeps indicates a communication error.
2. Activate the sensing edge and observe the **check LED**; 3-5 flashes is ideal. Less than 3 flashes means there is a weak signal.
3. To exit **check** function, press the **check button** again, or the system will time-out after 5 minutes. There will be a series of beeps heard upon exiting.
4. Keep a clear line of sight between transmitter and receiver antenna. Nominal range is 50'

V. ERASING THE RECEIVER

Erase the Receiver if you need to replace a Transmitter or you have any other programming problems:

1. Use a screwdriver to short the two pins next to the **DIP switch** marked **MR** [IMAGE 2].
2. While shorting the pins, press and hold the **program button** for several seconds; you will hear a series of 10 beeps following by a rapid chirping sound.
3. When the chirping stops, release the **program button**. Wait ~10 seconds and you will hear 2 beeps. The Receiver is now ready to be reprogrammed.

VI. TECH SUPPORT

For additional assistance, contact Miller Edge Tech Support: 800-220-3343

VII. TRANSMITTER: SPECIFICATIONS & CONTROLS

Transmitter Frequency: 916 MHz, FSK modulation

TX Indicator Lights:

Green LED: Normally off

Press program button for status

Mounting: 4 corner screws (provided)

Power Source: Batteries: 2 AA, 3.6V lithium, 2 year life expectancy

Dimensions: 1.80”L x 4.78”W x 1.75”H

Program Button: Momentary push button is used to associate the Transmitter to the Receiver.

VIII. RECEIVER: SPECIFICATIONS & CONTROLS

Power: 12-24 VAC/DC nominal (11-30 V max); power may be supplied from the operator or alternatively from an external supply. 100 mA maximum current draw.

Cable Connections: Screw clamp type terminal blocks for 18-26 AWG wire.

Dimensions: 4.12”L x 3.65”W x 1.65”H

Learn Button: Used to associate a Transmitter with the desired receiver channel.

Check Button: Press to determine the signal strength. 4 or 5 blinks is ideal.

RX Indicator Lights:

- Check LED:
 1. Blinks every ~5 seconds to indicate working properly
- Channel LED:
 1. Off when the associated sensing edge is learned and has no faults
 2. On solid: No Transmitters learned or sensing edge is active

Connections:

- Power (2)
- Output:
 1. PE1,PE2: Photo-eye style pulsed output
 2. N/A; High speed pulse output (not commonly used)
 3. COM,N/O: Normally Open output for non-monitored applications

IX. FCC COMPLIANCE

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Unique Identifier: RB-TX10, RB-TX10B, RB-TX10C,
RB-P-RX10C

Responsible Party - Miller Edge, Inc
300 N Jennerstown Road
West Grove, PA 19390

This device complies with the FCC RF exposure limits and has been evaluated in compliance with portable exposure condition. To comply with the measured SAR value/SAR testing exclusion, the equipment must be installed and operated with a minimum distance of 20 cm of the human body.

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.

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 may 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:

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

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

X. MAINTENANCE

It is strongly recommended that users check wireless systems at least once per month for low batteries alerts, and damage to housings and mountings. Also check for signs of damage to sensing edge and cable connection points. Compress the sensing edge 2" from both ends and in the center and observe that it sends an electric signal to the controls. Refer to your operator manual for detailed instructions about motor connections.

XI. REPLACEMENT

To replace your Miller Edge wireless system, contact your sales representative. Attempting to repair your Miller Edge wireless system is not recommended and will void the manufacturer warranty.

XII. WARRANTY

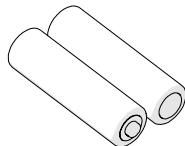
RBand for Doors (model: RB-P-K10) carries a **2-year warranty** from date of shipment from Miller Edge for credit or replacement. This warranty applies to normal use, which is found to have defective materials or workmanship, as determined solely by an authorized factory representative. This warranty is void where evidence of misuse or abuse is present. This warranty covers repair or replacement of the purchased product only; product installation/labor charges are not covered. Miller Edge manufactures its products to meet stringent specifications and cannot assume responsibility for those consequences arising from improper installation or misuse. Installation instructions and testing procedures provided by Miller Edge must be followed for proper operation and maintenance.

XIII. ACCESSORIES

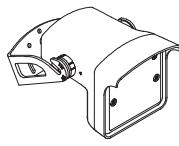
Contact your Miller Edge sales representative for accessories to wireless systems:



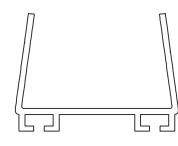
WARNING
LABELS



BATTERIES



MOTION
SENSORS



MOUNTING
CHANNELS



MODULES
(MIM)



EDGE TESTER