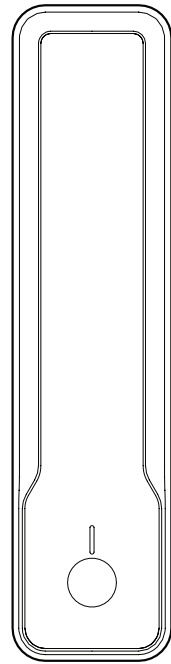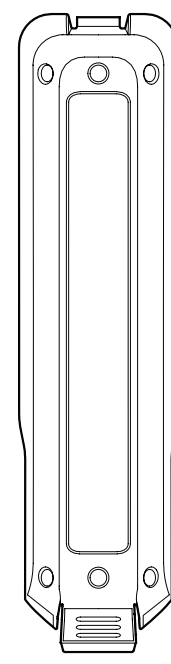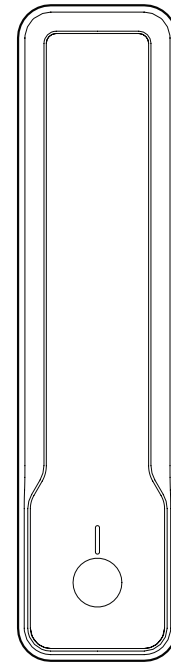# *location*Beacon

User Guide

blacklinegps
Protect. Share. Connect.

PACKAGE CONTENTS

A. Blackline Beacon

B. Blackline Beacon Bracket (attached)

C. 2 – #6 x 1" screws
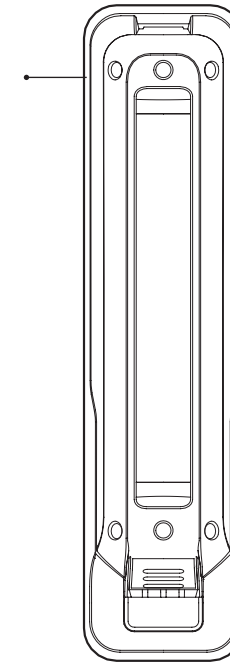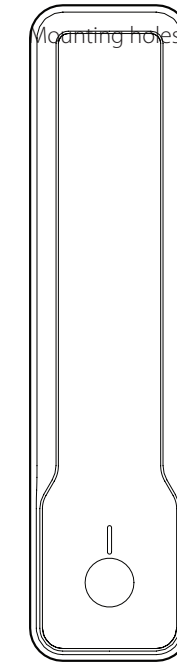
D. 2 – Drywall anchors

HARDWARE DETAILS

Power/Status button

Status light

Product label

Mounting Bracket release

Mounting holes

LONER BEACON SYSTEM

■ The Blackline Beacon transmits a low energy message to compatible Loner devices.

■ The Loner device reports the Blackline Beacon information back to the Employee Safety Monitoring System to indicate the user's location.

■ Blackline Beacon has a transmission radius of about 40 feet but the range is dependent upon obstructions in the environment and mounting position.

Blackline Beacon Prerequisites

■ Account set-up in the **loner.blacklinegps.com** system.

■ Beacon Compatible Loner IS/SMD/IS Arctic safety monitoring device activated in a Loner account.

■ Blackline beacon location information for the installed beacons added to your Loner account.

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01 USING THE BEACON

The Blackline Beacon is shipped with batteries installed and powered off.

1. Press the Power/Status button to turn the Blackline Beacon on. The status light will turn On. The Blackline Beacon is now ready to use.

A green status light indicates normal operation. A flashing red status light indicates low battery. Solid red indicates a fault. The status light sleeps 2 minutes after the last button. Press to conserve energy while in operation.

At any time, pressing the power/status button will wake up the status light and it will remain on until going to sleep again.

To power Off the Blackline Beacon:

1. Press and hold the power the Power/Status button until the green status light turns Off.

02 SETUP IN THE LONER PORTAL

Information must be entered into the Loner Safety application to enable a Beacon to report its location.

1. Log in to your Loner Portal account. From the Menu, navigate to the Beacon activation page. You will be prompted to enter the Beacon Unit ID and Activation Code found on the product label on the back of the Beacon.

Once the Beacon has been activated the installation of the Beacons can commence.

❖ **IMPORTANT:** Take care to note the Unit ID and the location of each Beacon that you install.
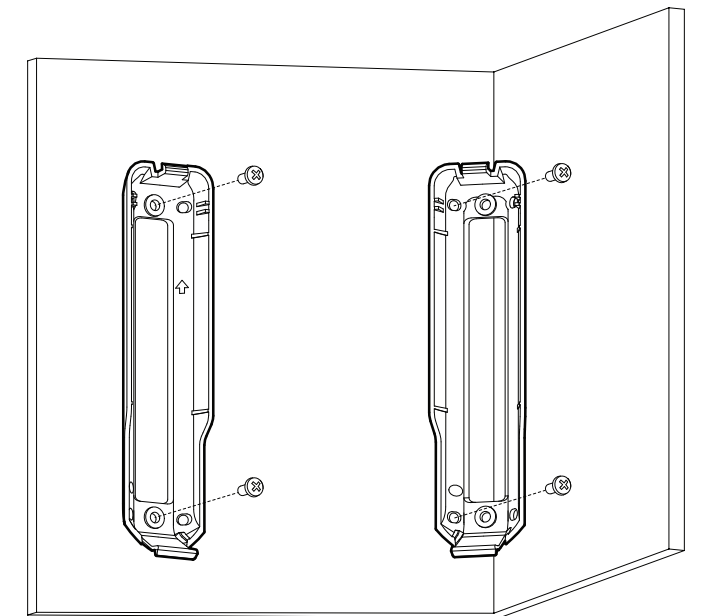
03 SUGGESTED MOUNTING

The Blackline beacon transmits in a radius of ~40 feet, but the range is dependent upon obstructions in the environment and mounting position. Where multiple Blackline Beacons are required, position them close enough to ensure adequate coverage throughout the desired area.

Beacons should be mounted as high in a room as practical, with minimal obstructions to interfere with the wireless signal. The Beacon mounting bracket allows for mounting flush on a wall or in a corner.

❖ Obstructions that are made of metal or concrete will interfere with the propagation of the wireless signal more than wooden structures.

The beacon is shipped in the highest Transmit Power Setting and can be adjusted to reduce the transmit range of the Beacon for installations where more granular locations are required. See the Transmit Power Settings section for information on adjusting the transmit power.

Assigning Beacon locations in the Loner Portal

Once the Beacon has been installed,

1. Log into your Loner Portal account.

2. Navigate to Menu > Beacon Set-up page.

3. Add the following information, for each activated Beacon:

Name
This should be a friendly name that identifies the location (e.g. main floor entrance).

Site Address
This should be the address of the nearest entrance to the site where the Beacon is installed.

Longitude and Latitude
This should represent the actual location of the installed Beacon as closely as possible. The pin on the map can be dragged to automatically calculate the Longitude and Latitude.
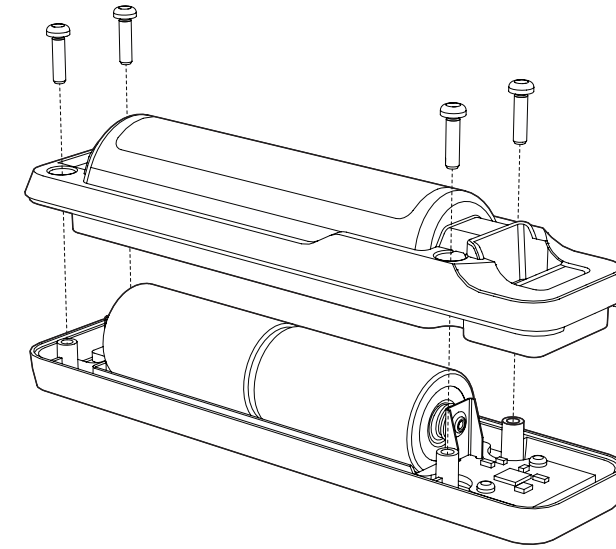
Changing Batteries

The Blackline Beacon's 2 C Cell batteries expected life is 5 years.

1. Remove the Beacon from the mounting bracket.

2. Remove the 4 screws on the back of the Beacon to remove the back half of the enclosure to access the batteries as shown below. Battery orientation is indicated beneath the batteries on the inside of the front half of the enclosure.

3. Install new batteries and reassemble the Beacon.

❖ **IMPORTANT** An effective response to an emergency situation depends upon the accuracy and completeness of this information.

Changing the transmit power settings

The Blackline Beacon is shipped in the highest transmit power setting. Transmission power affects the range of the Beacon's signal.

To change the transmission power setting

1. Press and hold the button on the Blackline Beacon. The Status Light will turn On and then turn Off. As you continue to hold the button, the light will begin to blink in sets of flashes that indicate power levels.

2. Release the button on the set of flashes to program your desired power level. The status light will repeat the selected power setting 3 times before returning to normal operating mode.

❖ The set with the fewest flashes indicates the lowest power level and the set with the most flashes indicates the highest power level. The sets will cycle from lowest to highest as you continue to hold the button.

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FCC Compliance
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.

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 the manufacturer could void the user's authority to operate the equipment.

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 further assistance.

Industry Canada Compliance
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, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Intrinsically Safe

This device is certified Intrinsically Safe for use in Class I, Division 1, Groups A-D and Class II, Division 1, Groups E-G hazardous (classified) locations.

Specifications:

Class I, Division 1, Groups A, B, C, D T4
Class II, Division 1, Groups E, F, G T4
Class I, Zone 0, Group IIC T4
-40*C <= Ta <= +55*C

This product is certified for use with the following batteries:

Duracell PC1400
Energizer LR14DP12
Rayovac ALC-12FP

WARNING: Use only approved batteries.

Consult with your organization's safety professional for further information regarding the topic of intrinsic safety and any policies, procedures, facilities, or locations within facilities that may be related to intrinsic safety.