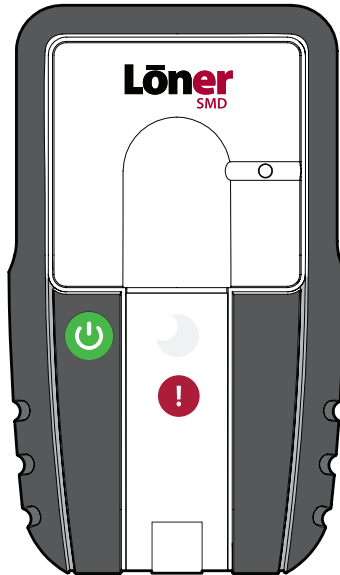


# User Guide

# Lōner

## SMD

Mobile Worker Safety Device



**SureSafe™**  
Safety Monitoring confirmation light

**blacklinesafety**

*Alert. Locate. Respond.*



## Legal Notices

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## Warranty

Your Löner is warranted against defects in materials and workmanship for up to one year from date of purchase. For further details regarding your Blackline warranty, please refer to your Terms and Conditions of Service.

**More information and support visit:** <http://www.blacklinesafety.com> for more information.



## 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.

## Notification d'Industrie Canada

Ce dispositif est conforme au(x) format(s) RSS libre(s) d'Industrie Canada. Son fonctionnement est assujéti aux deux conditions suivantes : (1) Cet appareil ne peut causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant provoquer un mauvais fonctionnement du dispositif.

## RF Exposure Statement

For body worn operation, Löner 900 has been tested and meets the FCC and IC guidelines for RF exposure when used with the Blackline GPS belt clip designated for Löner 900. Use with other accessories may not ensure compliance with FCC and IC guidelines for RF exposure.

## Déclaration d'exposition RF

Pour utilisation sur le corps, Löner 900 a été testé et répond aux directives de la FCC et IC d'exposition aux radiofréquences lorsqu'il est utilisé avec le clip ceinture Blackline GPS désigné pour Löner 900. Utilisation avec d'autres accessoires peut ne pas assurer le respect des directives de la FCC et IC d'exposition aux radiofréquences.

# Table of Contents

## Safety Precautions

DANGER .....	4
WARNING .....	4

## Getting Started

Activate your Device .....	6
----------------------------	---

## Overview

Requirements .....	7
Contents .....	7

## Using Loner SMD

Loner SMD Hardware Details .....	8
Charging Loner SMD .....	10
Turning Loner SMD On .....	10
Turning Loner SMD Off .....	11
Loner SMD Light Behaviour .....	11
Loner SMD Light Annunciation Patterns .....	12
Ensuring Protection with Loner SMD .....	12

## Alerts

Understanding Alerts .....	13
Initiating an Emergency Alert (Emergency Latch Use) .....	14
Canceling an Emergency Alert (Emergency Latch Use) .....	14
Initiating a Silent Emergency Alert .....	14
Motion/Activity Monitoring .....	14
Cancelling a Pending No-motion Alert .....	15

Cancelling a No-motion Alert .....	15
About Fall Detection .....	15
Cancelling a Pending Fall Detected Alert .....	15
Cancelling a Fall Detected Alert .....	15
About Checking In .....	16
Cancelling a Pending Missed Check-in Alert: .....	16
Cancelling a Missed Check-in Alert .....	16
Low Battery Detection .....	16

## **Specifications**

Specifications for Löner SMD .....	19
------------------------------------	----

## **Löner SMD Care**

Consideration Regarding Use and Storage of Löner SMD .....	20
--	----

## **Customer Care**

Customer Care for Löner SMD .....	20
-----------------------------------	----

# Safety Precautions

Blackline takes your safety and the safety of those around you very seriously. It is important for you to be aware of the following precautions.



## **DANGER**

Do not place a Blackline GPS Product in or near an open flame or in the presence of flammable gases or fumes.

Turn Loner off when you are near petrol stations, fuel depots, chemical plants, or where blasting operations are in progress. Operation of any electrical equipment in potentially explosive atmospheres can constitute a safety hazard.



## **WARNING**

When in a hospital or other health care facility, observe the restrictions on the use of mobile devices, such as cellular phones. Do not operate Blackline GPS products where you are not able to operate your mobile/cellular phone.

Switch Blackline GPS products off before boarding an aircraft and make sure that it cannot be inadvertently turned on. To prevent interference with communication systems the operation of wireless applications, including Blackline GPS products, is forbidden aboard aircraft. Failure to observe these instructions may lead to the suspension or denial of cellular services to the offender, legal action, or both.

Road safety comes first. Do not operate a Blackline GPS product while you are driving a vehicle. Park your vehicle before operating a Blackline GPS product, or using your mobile phone to interface to the Blackline GPS service.

Electrical equipment may be hazardous if misused. Operation of this product, or similar products, must always be supervised by an adult. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables.

**Do Not** operate Blackline products outside their specified operating temperature. Consult the specifications section.

**Do Not** store Blackline products outside their specified storage temperature. Consult the specifications section.

**Do Not** operate Blackline products outside their specified humidity rating. Consult the specifications section.

**Do Not** operate Blackline products in direct sunlight.

**Do Not** dispose of Blackline products in your household trash. Seek advice from your local electronics recycling authority. Blackline products may contain an internal lithium-ion battery pack.

# Getting Started

## Activate your Device

Activation of Loner® SMD device is managed within your Loner® Portal account by the Blackline Customer Care team. If a Loner Portal account has not been created, our Blackline Customer Care team can provide assistance.

North America toll-free: **1-877-869-7212**

Americas telephone: **+1-403-451-0327**

Americas email: **support@blacklinegps.com**

Europe and international telephone: **+44 1787 222684**

Europe and international email: **eusupport@blacklinegps.com**

Web: **www.blacklinesafety.com**

## Overview

The Blackline GPS™ Loner SMD™ dedicated safety device provides multi-layered safety for you as a mobile worker. This guide provides information that you will find helpful to comfortably operate your Loner SMD device. Your Loner SMD device contains the following internal components:

- Wireless radio and antenna
- High sensitivity GPS receiver
- Ultimate Sense® GPS antenna
- Large capacity 1200 mAh rechargeable battery
- Tri-axis accelerometers
- Gyroscope
- Vibration motor
- Emergency Latch
- Power Button and Indicator Light
- Indicator Light Array
- Alarm Beeper
- USB Interface for charging
- Integrated weather-proof and dust-proof case



## Requirements

Loner SMD promotes a safe work environment for you when:

- The device has been activated on a Loner Portal user account
- The device has sufficient battery capacity to operate
- The device has sufficient wireless signal level to communicate data
- The device has sufficient GPS signal coverage to compute locations
- You are wearing the device

## Contents

- Loner SMD™
- Micro USB Charging Clip
- Charging cable
- Wall Charger
- Belt Clip (plastic or metal)
- Loner SMD User Guide



### **Loner SMD Service Plan**

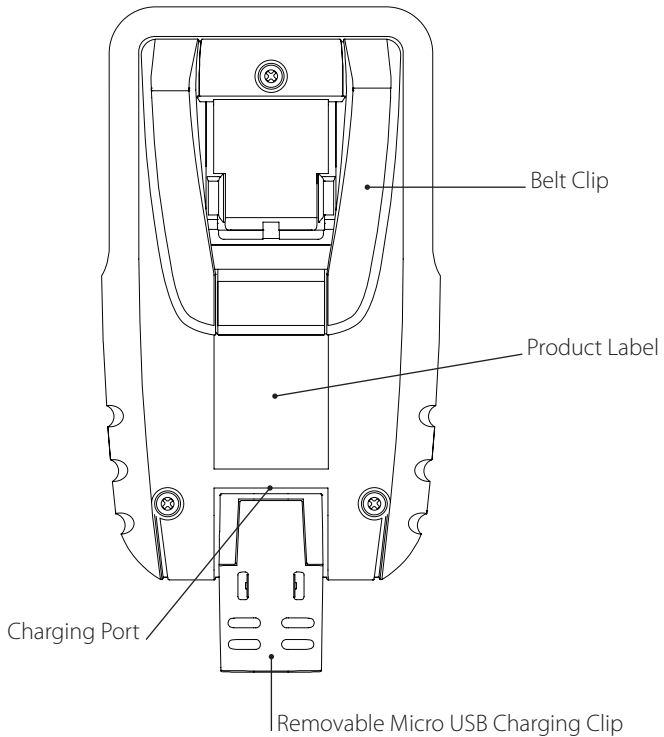
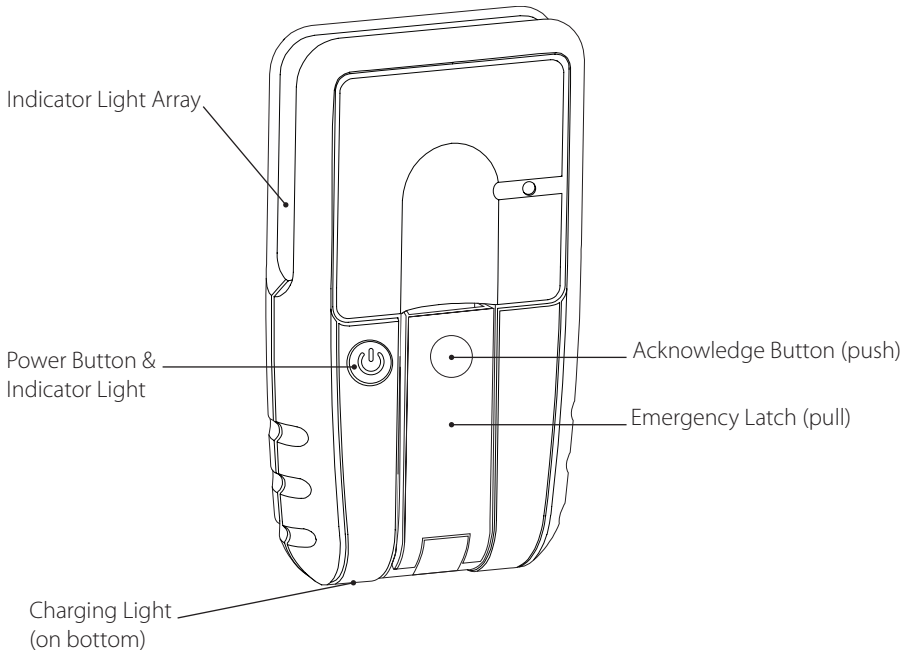
*Various service plan options are available depending on your feature level requirements. Contact Blackline for more information.*

# Using Loner SMD


## Loner SMD Hardware Details

Loner SMD is rugged and purpose-built for monitoring you as a mobile worker. Physical details are outlined below.

<b>Physical Feature</b>	<b>Use</b>
<b>Power Button &amp; Indicator Light</b>	Powers Loner SMD and indicates cellular connection status
<b>Acknowledge Button</b>	Acknowledges alert messages on Loner SMD
<b>Indicator Light Array</b>	Indicates Loner SMD is in an Alarm state
<b>Emergency Latch</b>	Sends an emergency alert to monitoring personnel
<b>Charging Light</b>	Indicates the charging state
<b>Product Label</b>	Provides device information, unit ID and activation code
<b>Belt Clip</b>	Attaches Loner SMD to a belt
<b>Charging Port</b>	Charges Loner SMD
<b>Removable Micro USB Charging Clip</b>	Adapts Micro USB cable to charging port for charging Loner SMD

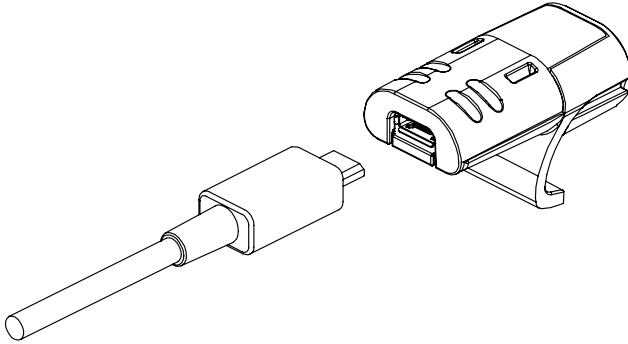


## Charging Loner SMD

1. Plug the Wall Charger into an electrical outlet.
2. Insert the Micro USB Cable Plug into the corresponding Micro USB Charging Jack on the charging clip ensuring the USB symbol  on the cable faces the flat side of the charging clip. *Note: Different cables may have the USB symbol on the top or bottom of the connector. Care must be used to ensure the Micro USB cable plug is correctly connected to the charging clip.*
3. Slide the charging clip onto Loner SMD using the guides to align the clip with the charging port on the device.
4. Completely charge Loner SMD for 6 hours.
5. Remove the charging clip from Loner SMD.

Charging state can be determined by observing the charging light. See the section Loner SMD Light Behaviour for more detailed information.

- ❖ Charging Loner SMD will turn the device Off ensuring it will not trigger alerts while charging.
- ❖ Blackline GPS recommends charging Loner SMD after each shift to ensure the device is fully charged for the next shift.



## Turning Loner SMD On

1. Press the Power Button to turn Loner SMD on.  
The beeper, alarm status light and vibration motor will announce the chirp pattern. The power button indicator light will blink as Loner SMD connects to the wireless network. While Loner SMD retains a wireless connection, the power button indicator light will remain on.

Loner SMD needs to have sufficient battery power to connect to the wireless network. Connection takes approximately one minute.

- ❖ If Loner SMD fails to connect to the wireless network, the device will enter the no communication alarm pattern.

## Turning Loner SMD Off

If Loner SMD is no longer required, follow these steps for turning off the device:

1. Press and hold the Power Button for three seconds to power the device off. The beeper will sound three long beeps while the power button is pressed. The vibration motor vibrates for three long pulses. The beeper, vibration motor and Power Button Indicator Light will turn off after three seconds.
- ❖ The Loner SMD will flash the indicator light array while turning off during the shut-down sequence.
  - ❖ If Loner SMD is plugged in to charge, it will automatically turn off to avoid false alerts.

## Loner SMD Light Behaviour

Loner SMD features a Power Button Indicator Light and a Red Charging Light. Please see below for the light behaviour.

Light Behaviour	Power Button Indicator Light	Red Charging Light
<b>Light flashing</b>	Indicates Loner SMD is powered and connecting to the wireless network.	Indicates Loner SMD is charging.
<b>Light On</b>	Indicates that Loner SMD is powered and connected to the wireless network.	Indicates that Loner SMD is fully charged.
<b>Light Off</b>	Indicates that Loner SMD is powered off or the battery is depleted.	Indicates that Loner SMD is not charging.

- ❖ Loner SMD is referred to as being offline and is not connected to the Loner Network when the Power Button Indicator Light is blinking or the device is powered off. Loner SMD is referred to as being online and connected to the Loner Network when the Power Button Indicator Light is on continuously.
- ❖ The Red Charging Light functions when the device is connected to a micro USB cable for charging.

## Loner SMD Light Annunciation Patterns

Loner SMD features audible, tactile and visual indicators for annunciating different types of messages. Please see below for these patterns.

Type	Beeper	Vibration motor	Indicator light array
Low alarm	Slow alarm pattern	Single repeating vibrate	Slow flash
High alarm	Fast alarm pattern	Double repeating vibrate	Fast flash
Low battery	Single beep once every 5 minutes	No vibration	Single flash once every 5 minutes
No communication	No beeper	No vibration	Slow double flash
Chirp	Single beep	Single vibrate	Single flash

## Ensuring Protection with Loner SMD

When safety monitoring is required, perform the following to ensure you are being protected with Loner SMD.

1. Press the power button to turn on Loner SMD.  
The Power Button Indicator Light on Loner SMD will blink while establishing a network connection. The vibration motor vibrates and the beeper annunciates the power on sequence. Loner SMD will continue to flash the Power Button Indicator Light while it is establishing a network connection.
2. Wait for Loner SMD to establish a network connection. The Power Button Indicator Light remains on continuously.
3. Wear Loner SMD on your belt at your hip at all times that you require remote safety monitoring. Perform your work duties as you normally would. Loner SMD automates remote monitoring of your safety.
4. Power down Loner SMD when remote monitoring of your safety is no longer required.

❖ The Loner SMD logo must face outward, away from your body for optimum GPS and fall detection performance.

# Alerts

Alert messages are configured for Löner SMD through the Löner Portal web application. Löner Portal displays alerts and they can be sent via email and SMS to safety monitoring personnel.

Alert messages are configured for Löner SMD through the Löner Portal user account. Löner Portal displays alerts and they can be sent via email and text to safety monitoring personnel.

## Understanding Alerts

An alert is a message that communicates a potential safety incident, such as an Emergency Alert. Alerts are related to potential safety incidents and require life-cycle management by monitoring personnel within Löner Portal. Depending on the priority level of the Alert and per your organizations emergency response protocol different action must be taken by safety-monitoring personnel.

<b>Alert</b>	<b>Explanation</b>
<b>Emergency alert</b>	Löner SMD sends an Emergency Alert if the Emergency Latch has been opened;
<b>Silent alert</b>	Löner SMD sends a Silent Emergency alarm if the acknowledge button is pressed for 3 seconds.
<b>Fall impact detected alert</b>	Löner SMD sends a Fall Detected Alert when the device has detected a fall AND you have not canceled the pending alert within 30 seconds.
<b>No-motion alert</b>	Löner SMD sends a No-motion Alert when the device does not detect motion for 2 minutes AND you have not canceled the pending message within 30 seconds.
<b>Missed check-in alert</b>	Löner SMD sends a missed Check-in alert when you have been prompted to check in and you have not cancelled the pending alert.

❖ All alerts are configurable. Speak to your safety team to learn what features have been implemented for your Löner SMD

## Understanding Notifications

A notification is a message that communicates a system level event to monitoring personnel, such as a Low-battery Notification. These messages describe how the overall Loner system may not offer safety monitoring coverage at the present time, or in the future.

Notification	Explanation
<b>Low-battery notification</b>	Loner SMD sends a Low-battery Notification if the internal battery level falls below 20% by default
<b>On-network notification</b>	Loner SMD sends an On-network notification when it has logged onto the Blackline Safety Network
<b>Off-network notification</b>	Loner SMD sends an Off-network notification when it has logged off the Blackline Safety Network due to being deliberately powered down.

## Monitoring Center's Confirmation of Alerts

Loner SMD will activate a blue light on the left and right sides of the indicator light array when a monitoring center has acknowledged an alarm sent by the Loner SMD. Once the monitoring center has resolved the alarm, the light will shut off. If an alarm is generated while the confirmation light is on, the light will reset (turn off) until the new alarm has been acknowledged.

## Initiating an Emergency Alert (Emergency Latch Use)

If you have configured you are in an emergency situation:

1. Open the Emergency Latch. Loner SMD will instantly send an Emergency Message to Blackline Safety Network and monitoring personnel. Loner SMD will annunciate the high alarm pattern to notify others nearby of the event.
- ❖ The alarm pattern on Loner SMD will continue until the Emergency Alert has been canceled or the battery is depleted.

## Silencing the Emergency Alert (Emergency Latch Use)

1. Return the Emergency Latch to the closed position.
  2. Press and hold the Acknowledge Button for 3 seconds.  
After three seconds, the alarm pattern will be silenced and Loner SMD will return to regular operation.
- ❖ If the user silences an Emergency Alert, this does not cancel the alert within the Loner Portal user account. Monitoring personnel are required to manage safety through to resolution



## Initiating a Silent Emergency Alert

If you are in an emergency situation where you would prefer to not alert others in the area (a silent emergency), perform the following:

1. Push and hold the acknowledge button for 5 seconds.  
Loner SMD will vibrate for 3 seconds, pause and then vibrate for 2 more seconds. A Silent Emergency Message will be sent to monitoring personnel. Hold the acknowledge button until the second vibration pulse stops.
- ❖ Loner SMD will NOT locally announce the alarm pattern (it will remain silent).
  - ❖ Loner SMD will return to normal operation. You cannot cancel the Silent Emergency. Monitoring personnel are required to manage the safety alert through to resolution

## Motion/Activity Monitoring

Loner SMD is constantly monitoring your motion to detect a possible person -down motionless incident. If Loner SMD has not detected motion within a programmable time period, it will enter the alarm mode and announce the low alarm pattern to indicate a pending No-motion alert. If you do not require assistance, you have 30 seconds to cancel the alert.

- ❖ The time window and sensitivity of the No-motion Alarm are configurable in the Loner Portal.

## Cancelling a Pending No-motion Alert

1. Press the acknowledge button until the alarm pattern is silenced (about 1 second) and Loner SMD will return to regular operation.
- ❖ If you have not cancelled the alert within 30 seconds, the No-motion Alert is communicated to monitoring personnel, initiating the alert escalation process. Loner SMD will announce the high alarm pattern and will continue until the alert is silenced or the battery is depleted.

## Silencing a No-motion Alert

1. Press and hold the acknowledge button for 3 seconds. After three seconds, the alarm pattern will be silenced and Loner SMD will return to regular operation.
- ❖ If the user silences a No-motion Alert, this does not clear the alert within the Loner Portal user account. Monitoring personnel are required to manage the safety alert through to resolution.

## About Checking In

Loner SMD can be configured in Loner Portal to have you periodically check in. During the Check-in period, Loner SMD will enter the alarm mode and annunciate the low alarm pattern to indicate a pending Missed Check-in alert. If you do not require assistance, you have 30 seconds to cancel the alert.

### Canceling a Pending Missed Check-in Alert:

1. Press the acknowledge button for 1 second.  
After one second, the alarm pattern will be silenced and Loner SMD will return to regular operation.
- ❖ If you have not cancelled the alert within 30 seconds, the Missed Check-in Alert is sent, initiating the alert escalation process. Loner SMD will annunciate the high alarm pattern until the alert is cancelled or the battery is depleted.

### Canceling a Missed Check-in Alert

1. Press and hold the acknowledge button for 3 seconds.  
After three seconds, the alarm pattern will be silenced and Loner SMD will return to regular operation.
- ❖ If the user cancels a Missed Check-in Alert, this does not clear the alert within the Loner Portal user account. Monitoring personnel are required to address the safety incident.

## About Fall Impact Detection

Loner SMD is constantly monitoring your motion for falls. If Loner SMD detects a fall impact, it will enter the pending alarm mode and annunciate the low alarm pattern to indicate a pending Fall Detected alert. If you do not require assistance, you have 30 seconds to cancel the alert.

### Performance Expectations of the Fall Detection System

Loner SMD utilizes an accelerometer to monitor for sudden impact, such as a fall. Loner SMD may be configured to be worn on the belt or a chest pocket via the Loner Portal account.

### Canceling a Pending Fall Detected Alert

1. Press the acknowledge button for 1 second during the pending fall detect alarm.  
After one second, the alarm pattern will be silenced and Loner SMD will return to regular operation.
- ❖ If you have not cancelled the alert within 30 seconds, the Fall Detected Alert is sent to monitoring personnel, initiating the alert escalation process. Loner SMD will annunciate the high alarm pattern and will continue until the alert is cancelled or the battery is depleted.

## Silencing a Fall Detected Alert

1. Press and hold the acknowledge button for 3 seconds. After three seconds, the alarm pattern will be silenced and the LonerSMD will return to regular operation.
- ❖ If the user silences a fall detected alert, this does not clear the alert within the Loner Portal user account. Monitoring personnel are required to manage the safety alert through resolution

## About Checking In

LonerSMD can be configured in Loner Portal to have you periodically check in. During the Check-in period, LonerSMD will enter the alarm mode and announce the pending low alarm pattern to indicate a pending Missed Check-in alert. If you do not require assistance, you have half the check-in interval to cancel the alert.

For example, if your check-in alarm is set for two hours, the Loner will enter pending alarm at one hour and full alarm (if not acknowledged) after 2 hours.

Check-ins are monitored by the Blackline Safety Network. If you do not check in for any reason including powering off Loner Bridge before the Loner, there is a dead battery on the Loner, or if the Loner is destroyed, a missed check in alert will be generated.

## Canceling a Pending Missed Check-in Alert:

1. Press the acknowledge button for 1 second. The pending alarm pattern will be cancelled and LonerSMD will return to regular operation.
- ❖ If you have not cancelled the alert within half the check in time, the Missed Check-in alert is sent, initiating the alert escalation process. LonerSMD will announce the high alarm pattern until the alert is silenced or the battery is depleted.

## Silencing a Missed Check-in Alert

1. Press and hold the acknowledge button for half the check-in interval. After three seconds, the alarm pattern will be silenced and LonerSMD will return to regular operation.
- ❖ If the user silences a Missed Check-in Alert, this does not clear the alert within the Loner Portal user account. Monitoring personnel are required to manage the safety alert through resolution.

## Low Battery Notification

Loner SMD monitors the battery level of the device. If the battery level drops below 20% of battery capacity (configurable), a Low Battery Alert will be sent to monitoring personnel and Loner SMD will annunciate the low battery alarm pattern.

### **Loner SMD will continue all of the alarms until one of the following occurs:**

Loner SMD automatically shuts down with a depleted battery or when Loner SMD is plugged in for charging.

- ❖ Loner SMD sends a Loner SMD Powered Off by Low Battery message to Blackline's Safety Network before finally powering off.
- ❖ If Loner SMD powers off with low battery, it will annunciate with a three second beep, vibrate and indicator light array flash.

# Specifications

## Specifications for Löner SMD

### Size & Weight

**Size:** 63 mm W x 107 mm L x 22 mm D (2.48" W x 4.213" L x 0.87" D)

**Weight:** 137 g (4.8 oz)

### Safety Features

**Fall detection technology:** Tri-axis accelerometers, tri-axis gyros, plus software processing

**Emergency latch:** Release latch to trigger alert

**Silent emergency:** Press & hold acknowledge button to trigger alert

**Worker motion monitoring:** Configurable time window (1 – 30 min, or off)

**Worker check-in (optional):** Required check-in period (5 – 180 min)

### Buttons & Indicator Lights

**Power button:** Power on/off

**Acknowledge button:** Check-in/Silent Emergency/Cancel Pending Alerts/Acknowledge Alerts

**Emergency latch:** Send emergency alert

**Red indicator light array plus vibration and buzzer:** Safety alert triggered

**Green indicator light:** Blinking (powered), continuous (connected)

### User Notification

**Indicators:** Acoustic beeper, LEDs, and vibration motor

**Acoustic beeper sound pressure level:** ~90 dB @ 10 cm (~90 dB @ 3.94")

### Wireless Communication

**Radio:** Quad-band GSM/GPRS (800, 900, 1800, 1900 MHz)

**Antenna:** Internal quad-band

Bidirectional communication

Firmware upgrade over-the-air (FOTA)

### Assisted GPS

**Radio:** 20 Channel high sensitivity, mobile assisted

**Antenna:** Internal Ultimate Sense 2<sup>nd</sup> GPS antenna extends operation in weak GPS signal conditions

**Accuracy:** ~5 m (16 ft) Outdoors, ~50 m (165 ft) indoors

**Real-time location turnaround time:** ~20 seconds

Mobile Messaging Methods

Email, text message (SMS)

### Alert Messages

Fall Detected

Emergency

Silent Emergency

No-motion

Missed Check-in

Low Battery

Power off

### Power & Battery

**Rechargeable Li-ion battery:** 1200 mAh Li-ion

**Battery Life:** 12 hours continuous operation

**Charging connector:** 4-pin sealed connection

### Environmental

**Storage temperature:** -30°C to 75°C (-22°F to 167°F)

**Operating temperature:** -20°C to 55°C (-4°F to 131°F)

**Charging temperature:** 0°C to 45°C (32°F to 113°F)

**Ingress Protection:** Designed to meet IP65

### Approvals

**FCC Part 15 Subpart B, FCC ID:** QIPBGS2, Industry Canada 7830A-BGS2, PTCRB type approval

### Device Requirements

Blackline GPS activated service plan

GSM/GPRS wireless communication coverage

GPS signal coverage required for GPS locating

### Warranty

One year limited factory warranty

Wireless Coverage and Activated Service Plans

**Wireless coverage:** Nearly 150 countries

**Service plan options:** Contact Blackline

### Löner Portal Web Application

**Features include:** Alarm banner, event history, device location mapping, device management, alert & notification settings, and more.

# Loner SMD Care

## Consideration Regarding Use and Storage of Loner SMD

Loner SMD meets IP65 ingress protection ensuring that under normal operation no dirt or water can enter the device.

Storage temperature range: -30 to 75°C (-22 to 167°F)

Operating temperature: -20 to 55°C (-4 to 131°F).

Charging temperature: 0°C to 45°C (32°F to 113°F)

❖ More details can be found in the specifications section.

# Customer Care

## Customer Care for Loner SMD

Customer Care from our headquarters in Calgary, Canada is available between the hours of 8<sup>AM</sup> and 5<sup>PM</sup> Mountain Time. Customer Care from our office in the United Kingdom is available between the hours of 8<sup>AM</sup> and 5<sup>PM</sup> Greenwich Mean Time.

North America toll-free: **1-877-869-7212**

Americas telephone: **+1-403-451-0327**

Americas email: **support@blacklinegps.com**

Europe and international telephone: **+44 1787 222684**

Europe and international email: **eusupport@blacklinegps.com**

Web: **[www.blacklinesafety.com](http://www.blacklinesafety.com)**



### **Wireless Coverage**

*Loner SMD provides wireless coverage within most populated areas of Canada and the United States and can be extended to nearly 150 countries. Contact Blackline GPS for more information.*



**blacklinesafety**

*Alert. Locate. Respond.*

[www.blacklinesafety.com](http://www.blacklinesafety.com)