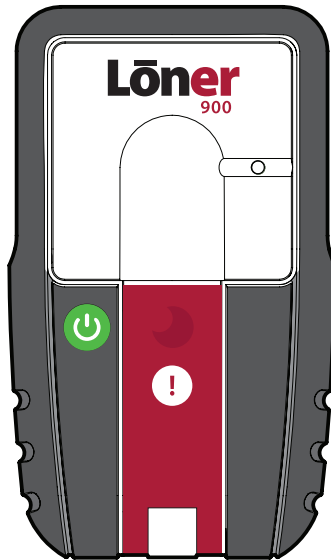


Intrinsically Safe

User Guide

Löner 900

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.

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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 the Loner 900 product in or near an open flame.



WARNING

To reduce the risk of ignition of a flammable atmosphere, batteries must only be charged in an area known to be nonflammable.

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 products where you are not able to operate your mobile/cellular phone.

Switch Blackline 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 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 product while you are driving a vehicle. Park your vehicle before operating a Blackline product, or using your mobile phone to interface to the Blackline 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® 900 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 Loner 900 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 900 device. Loner 900 contains the following internal components:

- Wireless radio and antenna
- High sensitivity GPS receiver
- GPS antenna
- Large capacity 1500 mAh rechargeable battery
- Tri-axis accelerometer
- Tri-axis 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

Intrinsically Safe

Blackline's Loner 900 device is a UL 913-certified Intrinsically Safe Apparatus for use in Class I, Division 1, Groups A, B, C and D and Class II, Division 1, Groups E, F and G in hazardous (classified) locations.

Please 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.

Requirements

Loner 900 promotes a safe work environment for you when:

- The Loner 900 and Bridge have been activated on a Loner Portal user account.
- You are wearing the Loner 900 and the green SureSafe™ power light is on continuously
- Loner 900 is connected to a Loner Bridge.
 - ❖ Loner Bridge requires line-of-sight access to the sky to communicate data over satellite.
- Loner 900 and Loner Bridge have sufficient battery capacity to operate.

Contents

- Loner 900 with metal clothing clip (removable)
- Plastic belt clip and screw
- Micro USB Charging Clip
- Charging cable
- Wall Charger
- Loner 900 User Guide
- Quick reference card



Loner 900 Service Plan

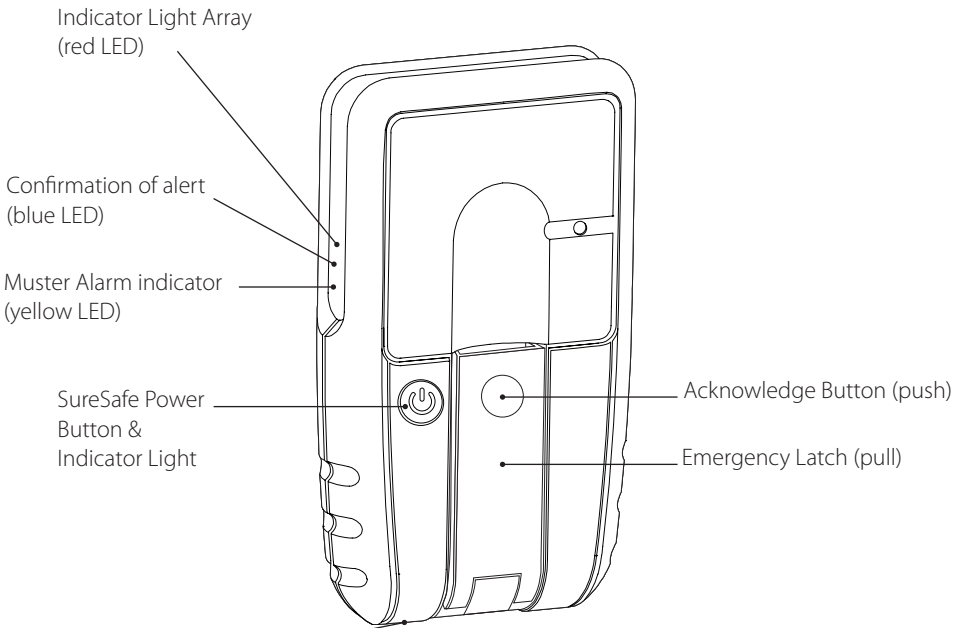
Various service plan options are available depending on your feature level requirements. Contact Blackline for more information.

Using Loner 900

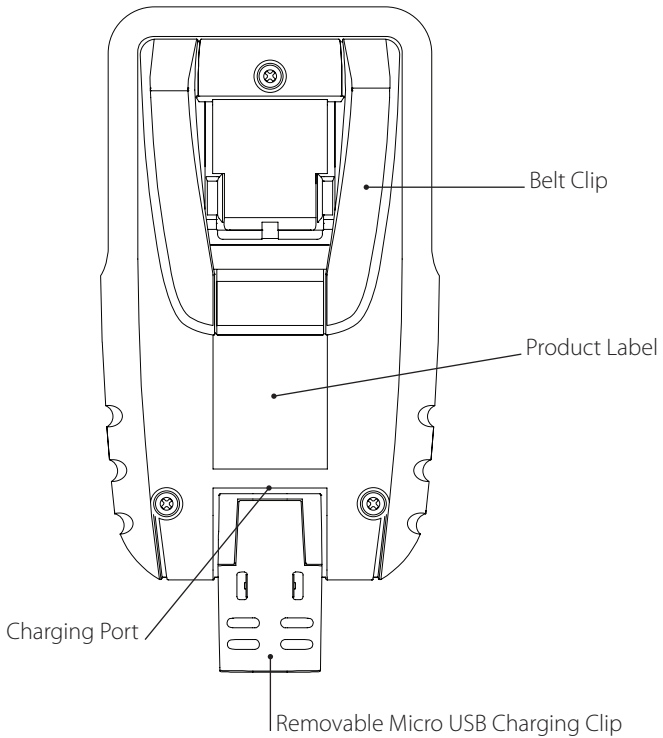
Loner 900 Hardware Details

Loner 900 is rugged and purpose-built for monitoring you as a mobile worker. Physical details are outlined below.


Physical Feature	Use
Power Button & SureSafe Indicator Light	Powers Loner 900 and indicates monitoring status to the Blackline Safety Network
Acknowledge Button	Acknowledges alert messages on Loner 900
Indicator Light Array	Indicates Loner 900 is in an Alarm state
Confirmation LED	Indicates that an alarm from the Loner 900 is being remotely managed (blue)
Muster LED	Indicates Loner 900 is in a Muster State (see page _ for more info about muster alarm)
Emergency Latch	Sends an emergency alert to monitoring personnel
Charging Light	Indicates the charging state
Product Label	Provides device information, unit ID and activation code
Metal Belt Clip	Attaches Loner 900 to a belt
Charging Port	Charges Loner 900
Removable Micro USB Charging Clip	Adapts Micro USB cable to charging port for charging Loner 900



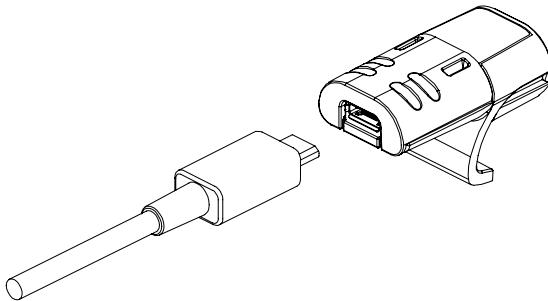
Charging Light (on bottom)



Charging Loner 900

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 and insert the other USB plug into wall charger.
 3. Slide the charging clip onto Loner 900 using the guides to align the clip with the charging port on the device.
 4. Completely charge Loner 900 for 3 hours.
 5. Remove the charging clip from Loner 900.
- ❖ Charging Loner 900 turns the device Off ensuring it will not trigger alerts while charging. Blackline recommends charging Loner 900 after each shift to ensure the device is fully charged for the next shift.

WARNING: Never charge Loner in a hazardous area. The Loner's charger *is not* intrinsically safe.



Charging States

The charging state can be determined by observing the charging light located beside the charging port.

Red Charging Light Behaviour	Description
Light flashing	Indicates Loner 900 is charging.
Light On	Indicates that Loner 900 is fully charged.
Light Off	Indicates that Loner 900 is not charging.

Turning Loner 900 On

1. Press and hold the SureSafe Power Button to turn Loner 900 on. The beeper, the alarm status light and vibration motor will announce the chirp pattern. The SureSafe power button indicator light will blink as Loner 900 connects.
- ❖ Loner 900 needs to have sufficient battery power to connect to Loner Bridge. Establishing this connection takes approximately one minute.
 - ❖ If Loner 900 fails to connect to Blackline's servers, the green SureSafe light on Loner 900 will flash and if enabled, Loner 900 will enter a no-connection alarm state.

Turning Loner 900 Off

Follow this step for turning off the device:

1. Press and hold the SureSafe 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 900 will flash the indicator light array during the shutdown sequence. Do not turn off the associated Loner Bridge until the Power Button Light Indicator is off.
 - ❖ If Loner 900 is plugged in to charge, it will automatically turn off to avoid false alerts.

Loner 900 Green SureSafe Power Button Light Behaviour

Loner 900 features a Power Button Indicator Light. Please see below for the light behaviour.

Green SureSafe Light Behaviour	Description
Light flashing	Indicates Loner 900 is powered and connecting to Blackline's monitoring infrastructure via the wireless network, or logging off the server (stopping the missed check in timer)
Light On	Indicates that Loner 900 is powered and connected to Blackline's safety network via the wireless network.
Light Off	Indicates that Loner 900 is powered off or the battery is depleted.

- ❖ Loner 900 is referred to as being offline and is not connected to Blackline's monitoring infrastructure when the SureSafe Power button Indicator Light is blinking or the device is powered off. Loner 900 is referred to as being online and connected to the to Blackline's monitoring infrastructure when the SureSafe Power Button Indicator Light is on continuously.

Loner 900 Annunciation Patterns

Loner 900 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
Pending 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

Using the Loner 900 and Loner Bridge System

When safety monitoring is required, perform the following to ensure you are being protected with Loner 900.

1. Press the power button to turn on the Loner Bridge device. The green Power Button Indicator Light on Loner Bridge will begin to flash.
2. Mount the Loner Bridge on your truck, all-terrain vehicle, or boat in an open location, with a broad, clear, unobscured view of the sky for satellite communications. This includes keeping Loner Bridge away from tall buildings and from underneath tree cover. Loner Bridge cannot be used indoors due to obstruction of satellite communication signals.
3. Press the SureSafe Power button to turn on the Loner 900 device. The Loner 900 device's internal vibration motor, beeper, and red visual indicators will annunciate the power on sequence. The green SureSafe Power Button Indicator Light on Loner 900 will begin to flash.
4. Wear Loner 900 at all times that you require remote safety monitoring. Perform your duties as you normally would. Loner 900 automates remote monitoring of your safety.

5. Power off Loner 900 when remote monitoring of your safety is no longer required.
 6. Power off Loner Bridge only when no Loner 900 devices are connected to ensure that real-time monitoring of other employees is not inadvertently stopped.
- ❖ The Loner 900 logo must face outward, away from your body for optimum GPS and fall impact detection performance.

Alerts & Notifications

Alert messages are configured for Loner 900 through the Loner Portal user account. Loner 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 Loner 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.

Alert	Explanation
Emergency alert	Loner 900 sends an Emergency Alert if the Emergency Latch has been opened;
Silent alert	Loner 900 sends a Silent Emergency alarm if the acknowledge button is pressed for 3 seconds.
Fall impact detected alert	Loner 900 sends a Fall Detected Alert when the device has detected a fall AND you have not canceled the pending alert within 30 seconds.
No-motion alert	Loner 900 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.
Missed check-in alert	Loner 900 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 Loner 900

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
Low-battery notification	Loner 900 sends a Low-battery Notification if the internal battery level falls below 20% by default
On-network notification	Loner 900 sends an On-network notification when it has logged onto the Blackline Safety Network
Off-network notification	Loner 900 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 900 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 900. 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 900 will instantly send an Emergency Message to Blackline Safety Network and monitoring personnel. Loner 900 will annunciate the high alarm pattern to notify others nearby of the event.
- ❖ The alarm pattern on Loner 900 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 900 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.
Löner 900 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.

- ❖ Löner 900 will NOT locally announce the alarm pattern (it will remain silent).
- ❖ Löner 900 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

Löner 900 is constantly monitoring your motion to detect a possible person -down motionless incident. If Löner 900 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 Löner Portal.

Cancelling a Pending No-motion Alert

1. Press the acknowledge button until the alarm pattern is silenced (about 1 second) and Löner 900 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. Löner 900 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 Löner 900 will return to regular operation.
- ❖ If the user silences a No-motion Alert, this does not clear the alert within the Löner Portal user account. Monitoring personnel are required to manage the safety alert through to resolution.

Muster Alarm Light

A yellow LED on either side of the Loner 900 will light up if you are required to return to muster or if Loner Bridge has received a text message at the Bridge that requires action.

About Fall Impact Detection

Loner 900 is constantly monitoring your motion for falls. If Loner 900 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 900 utilizes an accelerometer to monitor for sudden impact, such as a fall. Loner 900 may be configured to be worn on the belt or a chest pocket via the Loner Portal account.

Cancelling 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 900 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 900 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 Loner 900 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

Loner 900 can be configured in Loner Portal to have you periodically check in. During the Check-in period, Loner 900 will enter the alarm mode and annunciate 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.

Cancelling a Pending Missed Check-in Alert:

1. Press the acknowledge button for 1 second. The pending alarm pattern will be cancelled and Loner 900 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. Loner 900 will annunciate 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 Loner 900 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 900 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 900 will annunciate the low battery alarm pattern.

Loner 900 will continue all of the alarms until one of the following occurs:

Loner 900 automatically shuts down with a depleted battery or when Loner 900 is plugged in for charging.

- ❖ Loner 900 sends a Loner 900 Powered Off by Low Battery message to Blackline's Safety Network before finally powering off.
- ❖ If Loner 900 powers off with low battery, it will annunciate with a three second beep, vibrate and indicator light array flash.

Troubleshooting

Troubleshooting the Use of Loner 900

Symptom	Cause	Solutions
Green SureSafe power light is blinking	Loner 900 is not connected to the Loner Portal via Loner Bridge	Ensure Loner Bridge is turned On (It may take up to 2 minutes after power-on to connect.); Ensure Loner Bridge has line-of-sight view to the sky to connect to communication satellites.
Many false fall alarms	Loners fall detect algorithm is being triggered	Reduce the fall detection sensitivity settings in Loner portal by raising the threshold from the default 3.5.
Many No-motion alarms	The user may be less active in his or her role than average	The No-motion alarm can be made less sensitive by increasing time window within Loner Portal.
Many Missed check in alarms	Loner 900 is not checking in	Powering Bridge off before Loner has finished its shut down sequence

Specifications

Specifications for Löner 900

Size & Weight

Size: 63 mm W x 107 mm L x 22 mm D (2.48" W x 4.21" L x 0.87" D)

Weight: 137 g (4.8 oz)

Safety Features

Fall detection technology: True Fall Detection®, Tri-axis accelerometer, tri-axis gyro, plus software processing

Emergency latch: Open latch to trigger alert

Silent emergency: Press & hold acknowledge button to trigger alert

Worker No-motion monitoring: Configurable time window (1 – 30 min, or Off)

Worker check-in: 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 (not connected), 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

900 MHz Radio: 902.0 – 928.0 MHz, 1 Watt

Antenna: Internal

Bidirectional communication

Location Technology

GPS Radio: 48 Channel high sensitivity, mobile assisted

GPS Antenna: Internal Ultimate Sense GPS antenna

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

GPS Real-time location turnaround time: ~20 seconds

900 MHz Radio Link Range

General use: up to 2 km

Hilltop to hilltop: 10+ km

Terrain, foliage, and buildings will affect overall 900 MHz radio link range

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: 1500 mAh Li-ion

Battery Life: 20 hours continuous operation at 20° C (68° F)

Charging connector: 4-pin sealed connection

Environmental

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

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

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

Ingress Protection: Designed to meet IP65

Regulatory Compliance

FCC Part 15 Subpart B, FCC ID: W77LNR900,

Industry Canada 8255A-LNR900, SAR

Intrinsically safe: Class I, Division 1, Groups A, B, C, D and Class II, Division 1, Groups E, F, G, T4, Class I Zone 0, Group IIC, T4

Device Requirements

Activated service plan

GPS or ANThill beacon coverage for locating

Safety monitoring requires real-time 900 MHz radio link to Löner Bridge

Safety monitoring requires active 900 MHz and satellite or cellular connections

Warranty

One year limited factory warranty

Löner Portal Web Application

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

Wireless Coverage and Activated Service Plans

900 MHz operation: ITU Region 2

Service plan options: Contact Blackline

Loner 900 Care

Consideration Regarding Use and Storage of Loner 900

Loner 900 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 to 45° C (32 to 113 °F)

❖ More details can be found in the specifications section.

Customer Care

Customer Care for Loner 900

Customer Care from our headquarters in Calgary, Canada is available between the hours of 8 AM and 5 PM Mountain Time. Customer Care from our office in the United Kingdom is available between the hours of 8 AM and 5 PM 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**

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.

Sécurité intrinsèque

Le dispositif Löner IS de Blackline est un UL 913-certié de sécurité intrinsèque pour utilisation en Classe I, Division 1, Groupe A-D et Classe II, Division 1, Groupe E-G, emplacements dangereux (classés).

Specifications:

Class I, Division 1, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class I, Zone 0, Group IIC T4
-20° C ≤ Ta ≤ +55° C

WARNING: Charge only in a nonhazardous location.

AVERTISSEMENT : Chargez uniquement dans un endroit non dangereux.

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.

Si il vous plaît consulter professionnel de la sécurité de votre organisation pour de plus amples informations concernant le sujet de la sécurité intrinsèque et les politiques, les procédures, les installations, ou emplacements au sein des établissements qui peuvent être liés à la sécurité intrinsèque.

blacklinesafety

Alert. Locate. Respond.

www.blacklinesafety.com