

A silhouette of a worker wearing a hard hat and safety harness, standing on a vertical structure and using a tool. The background is a dark, cloudy sky. A red horizontal band is positioned across the upper portion of the image, containing the title and subtitle.

SAFETY MONITORING SOLUTIONS COMPARISON GUIDE

PROTECTING YOUR MOST VALUABLE ASSET – *YOUR EMPLOYEES*

How do you monitor the safety of your team? Have you implemented a verbal or electronic system to confirm your employees' health and well-being? Is it enough?

There are many options for employee safety monitoring. Here we compare some of the key safety methods currently used by organizations worldwide, as well as some of their pros and cons.

COMPARISON GUIDE

► NO SAFETY MONITORING SOLUTION

Is your organization missing an employee safety monitoring solution? If the answer is yes, review the options below to determine the best one for your employees.

Pro: There are no costs associated with this option and you will not need to hire or invest in additional resources.

Con: Your lone workers are at constant risk. Having no safety monitoring solution in place means they may not be found in time to make a difference.

▶ THE BUDDY SYSTEM

One of the original better practices in monitoring employee safety, the buddy system can be expensive, employing two workers versus one—often with less productivity than two independent workers. This approach isn't bulletproof, especially if both workers suffer an accident or assault.

Considering the business impact of a buddy system on your organization is very straightforward. When two employees are working together and supporting the safety of each other, there is a natural inefficiency.

Sometimes a job requires two people to carry it out, while at other times, buddies are there for each other's safety and only one person is being productive. The buddy system could cost your organization \$6,000 per pair of buddies—every month.

Employees per buddy team	2 employees
Shift Duration	8 hours
Number of workdays per month	20 days
Percent of one-person jobs	50%
One-person job productivity per buddy team	50%
Lost time per buddy team	80 hours
Value of employee time to the business	\$75/hour
Lost productivity per month	\$6,000 per buddy team

Pro: A second set of eyes to assess the situation and respond to an incident, while completing duties.

Con: Doubles the cost to the organization for each scenario where a buddy system is implemented to manage risk. The safety return on investment (ROI) is higher than for an employee working alone, but it may not provide the assurance everyone needs.



▶ MANUAL CHECK-INS

Whether managed in-house or outsourced to a call center, manual check-in procedures often meet the minimum employee safety requirements, but are they effective?

Your organization offers a 2-hour check-in policy for employees, but what if something happens between intervals when workers are out of range, injured or unconscious and unable to call for help?

Furthermore, how productive is this for your organization, when an employee is halting their work on a 2-hour basis to check in? A team of 100 employees with a standard 2-hour check-in process could lose \$12,500 or more every month in otherwise productive time. Is your organization willing to accept this cost?

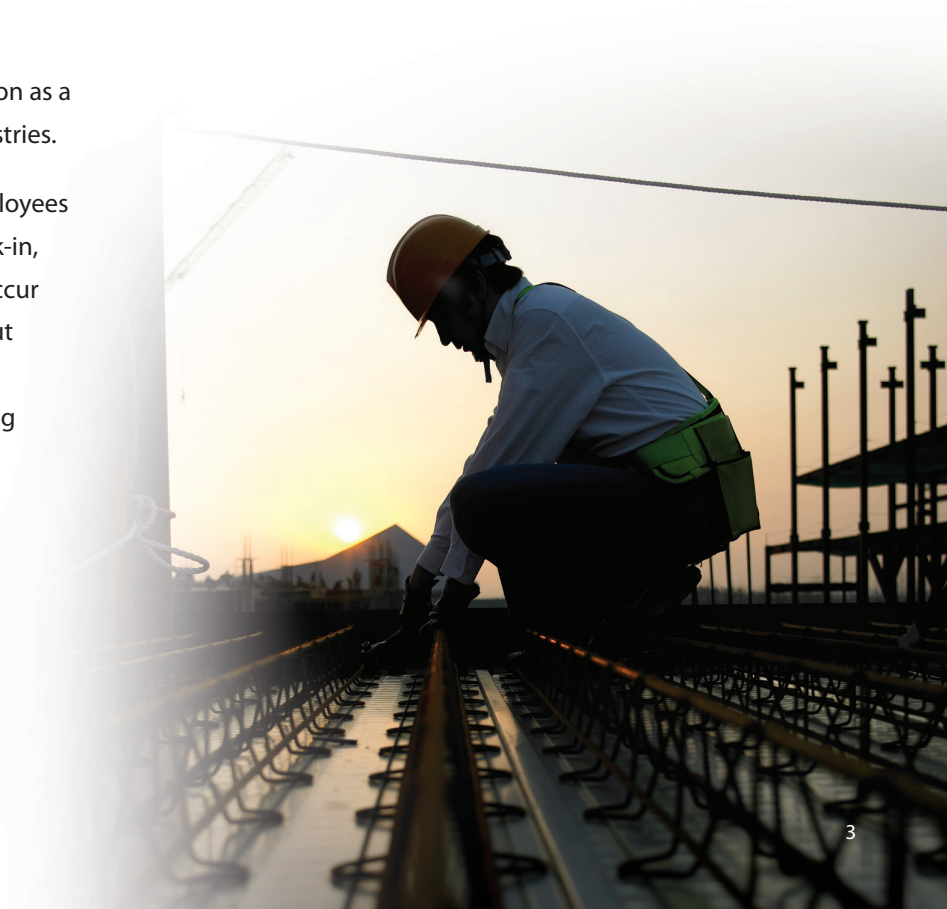
Realistically, employees could often lose more than a minute of productivity for each check-in. Factor in a third-party call center to administer the system and the overall program doubles in monthly expenses!

Here is an example of the costs and impact of your traditional check-in system.

Check-in interval	2 hours
Shift Duration	8 hours
Number of check-ins per day	4 check-ins, 1 check-out
Time lost per check-in	1 minute
Number of workdays per month	20 days
Lost time per employee, per month	100 minutes
Value of employees to the business	\$75/hour
Lost productivity per month	\$125/month per employee

Pro: Industry norm, has wide recognition as a standard solution across multiple industries.

Con: Expensive. Lost productivity. Employees can become complacent and not check-in, causing false alarms. Incidents could occur between intervals when workers are out of range, injured or unconscious and additional delay is incurred not knowing their precise location.



▶ IMPLEMENTING BASIC TECHNOLOGY



Many organizations have adopted a blue or orange satellite puck for safety monitoring of field personnel.

Some years ago, this solution was among the only location-based alternatives, but it is now outdated. Blue and orange satellite pucks present a high cost of ownership, as the following business model demonstrates. A team of 100 employees, that uses the blue or orange satellite puck could waste \$39,156 every year on replacement batteries alone. To the right we make our case—see for yourself the hidden cost associated with this solution.

But this is just part of the overall picture. The cost of replacement batteries does not consider the logistical cost of purchasing and battery distribution. This business model also does not consider the service fee for the blue or orange puck, which makes the business case even more compelling. Also, employee productivity and the use of a call center to manage a check-in process create additional layers of additional cost.

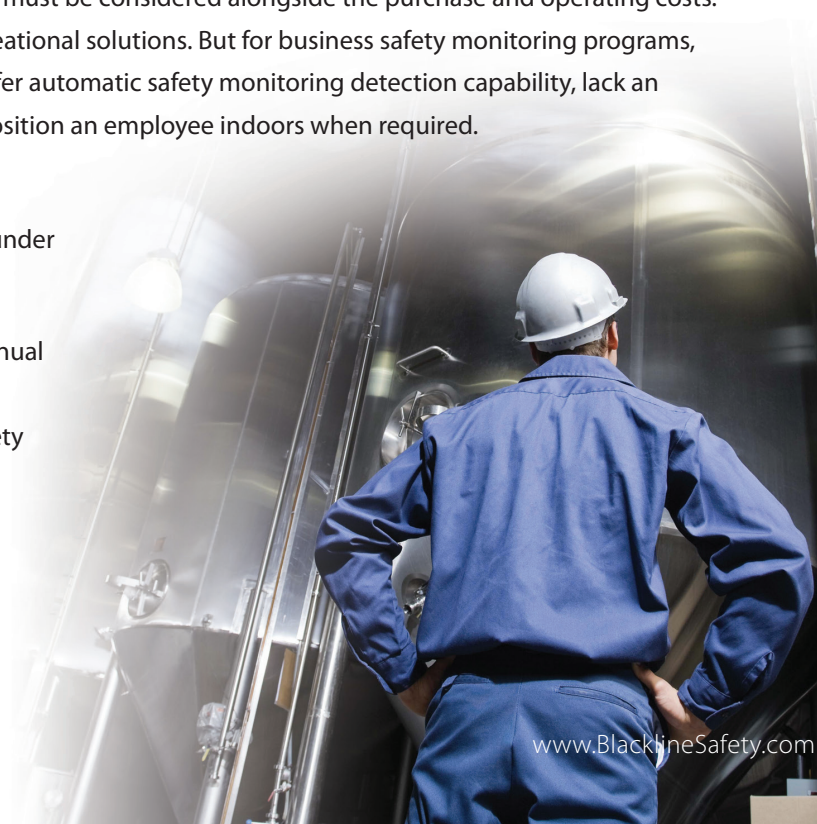
Below we make our case—see for yourself the hidden cost associated with this solution.

Lithium AA battery cost	\$3.75
Number of new batteries per set	3 per blue or orange puck
Cost per set of new batteries	\$11.25
Battery life with tracking	7 workdays
Number of workdays per month	20 days
Total cost of batteries, per month	\$32.63 per employee
Total cost of batteries, per year	\$391.56 per employee

More importantly, the effectiveness of any system must be considered alongside the purchase and operating costs. Blue and orange satellite pucks are attractive recreational solutions. But for business safety monitoring programs, these solutions cannot operate indoors, do not offer automatic safety monitoring detection capability, lack an efficient manual safety alert trigger and cannot position an employee indoors when required.

Pro: Often meets minimum requirements under compliance and legislative policies.

Con: Additional expenses compared to manual check-in processes or other monitoring technology. May not provide complete safety coverage. No automatic incident detection capability. Does not work indoors.



▶ BLACKLINE SAFETY TECHNOLOGY

With Blackline's technology, you have complete control over your deployment. Our in-house design and manufacturing provide a turnkey service offering that is easy to implement, hassle-free and complete with customer onboarding.

Blackline Safety offers the most complete solution portfolio and addresses compliance requirements better than any other solution on the market. Each solution is compatible with our cloud-hosted Loner Portal monitoring infrastructure, allowing every organization to select the right product for each application and job. Our complete solution portfolio offers a broad spectrum of technology, with everything from dedicated devices with cellular and satellite communications to smartphone apps with wearable accessories.

Blackline's Loner product family works anywhere and everywhere—indoors, outdoors, while driving and in remote locations. Our real-time safety alerting and precise employee location reporting can improve the outcome of a downed employee, reducing severity, employee suffering and in some instances, avoiding a fatality.

We even have our own in-house 24/7/365 Safety Operations Center that is available to manage your organization's safety alerts. We respond to each alert, efficiently managing them from receipt through to prompt resolution.

Turnkey safety monitoring technology can dramatically improve emergency response time to an employee who has suffered a workplace accident, injury or physical assault. Find out how.

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