

## Smart Safety Zone

### Member company

Bahru Stainless Sdn. Bhd.

### The Challenge

By solving the issue of human error in observing employees' whereabouts, to reduce injuries and accidents in busy production environments like operating production machines and packing lines.

The presence of rotation machinery can make busy industrial areas, such as operating production machines and packing lines, difficult to monitor and control. Keeping track of everyone's activities and locations can be challenging, which can cause mishaps that result in serious injuries or fatalities. Employees who cross the aisle where the rotating machinery is operating run the risk of being struck by the operator, who may

have missed them. This may result in costly legal actions, reduced output, and a detrimental effect on staff morale.

### Why?

To solve the issue of human error that can result in accidents, severe injuries, or fatalities when tracking the whereabouts of employees in certain contexts. To boost morale among workers, productivity, and workplace safety. To avoid expensive legal battles and monetary damages for the business caused by mishaps and injuries. To reduce downtime brought on by accidents in order to increase the production process' overall efficiency.

### Needed action

The detection of people's presence using smart sensor barrier system technology and sophisticated algorithms, followed

by the immediate disabling of the machine operations.

### Action review

*Specific:* Sensor barrier system and wide angle sensor used to recognize, identify and respond to human presence .

#### *Measurable:*

Decreasing accident-related downtime and injuries.

*Achievable:* The production rate increased due to workers to be more productive as their workplace became safer.

*Realistic:* Easily incorporated onto current



The picture indicates the smart safety zone coverage after the implementation at the machine.

machines design and adjusted to each unique machine requirements.

*Time-bound:* Implementation can be done in a specific time frame.

## Horizontal Expansion Capability

These steps and installation can be easily adopted and expanded for usage in more facilities.



The picture indicates the smart safety zone coverage after the implementation at the machine.

## Outcome

Increased worker safety: The Smart Sensor Barrier works to reduce accidents and injuries by detecting and reacting to human presence.

Productivity gains: The Smart Sensor Barrier can boost productivity by reducing accident-related downtime and enhancing the overall effectiveness of the production process.

Improved workplace trust and confidence as a result of the Smart Sensor Barrier's implementation.

Reduced risk of costly lawsuits: The Smart Sensor Barrier can lower the risk of expensive lawsuits by preventing accidents and injuries.

Cost savings: The Smart Sensor Barrier can help business to save money by reducing accidents and downtime.

Employee morale can be raised by using the Smart Sensor Barrier to provide a safer working environment and show that employers care about their welfare.



The picture indicates the smart safety zone coverage after the implementation at the machine.