

Small trucks

Prevention of false alarms contributes substantially to a smoother operation enhancing safety of workers and reduces costs.

But workers and machinery must be able to work together without annoying alarms.

PreAcc focusses on

- the workers at risks
- methods of alerting workers at risks and machine operators, integration with other safety systems and interface with machinery.
- The system must be universal to cover various safety setup of ground workers



Most accidents involving trucks and mobile machinery happen due to the sudden truck movement while a worker stands in the path of the moving vehicle within the immediate proximity of 3- 4 meters. Rear accidents contribute to the majority of accidents.

Geometry of the detection zone is set by the Diaz combi antenna and covers, depending on the type of the antenna, a detection zone of about 3m to 10 m behind the vehicle and wider than the width of the vehicle.

Wireless Alert signals: Only in case of danger

When the worker is at high risk in the working zone and a collision could happen.

For detection, the worker or obstacle must have a beacon or vibrating bracelet.

A beacon could be positioned on the helmet or vest.

Alert the truck operator by an audio/visual alert module in the cabin.

Alert the worker by a vibrating bracelet or e.g. flashing LED on the helmet

Advantages of the PreAcc system:

The system works outdoor and indoor under almost all environmental conditions like rain, snow, ice, steam, fog, smog and dirt, mud, etc.

PreAcc beacons (BLE) works at extremely low RF energy which is safer and limits interferences from reflections. About 100 to 1000 times less energy than class 3 Bluetooth directives -

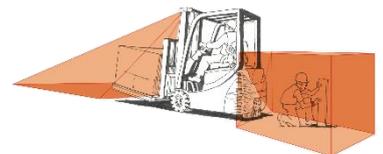
Bluetooth directives -

Sub-Ghz and microwave RF enables immune human body immunity, penetration and open air long distance applications.

Specifications:

Diaz module outputs

- To connect the warning system in the cabin
- To interface with the machine control box enabling the truck to stop.
- To connect the external combi antenna



Diaz module

- 140 x 140 x 70 mm , Weight : About 3 kg, Power : 12V – 48 VDC, Operating Temperature: -40 to + 80 ° C

Beacon:

- Battery life about 6 months

Bracelet:

- Rechargeable battery and charge status indicated by LEDS.
- Self-test button

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