

## RADAR BASED - ANTI-COLLISION SYSTEM PROXIMITY WARNING SYSTEM

Radar-based proximity sensors have proven to be a crucial tool in mitigating the risks associated with heavy vehicle accidents at mining sites. By strategically deploying these sensors at the front and rear of dump trucks, mine operators can effectively minimize the potential for accidents and injuries. These sensors operate by emitting fan-shaped beams of high-frequency radio waves, enabling active object detection in the vehicles' blind spots. Importantly, this enhanced safety feature can be integrated without the need for costly or time-consuming modifications to existing collision avoidance systems. Each sensor is meticulously configured to create a sensing area that precisely corresponds to its blind spot, thereby reducing the incidence of false alerts by disregarding objects outside of this designated zone. Moreover, the inclusion of an onboard video monitoring system offers operators the ability to visually assess the surroundings and promptly identify any potential obstructions.

By leveraging the cutting-edge technology of radar-based proximity sensors, mining operations can significantly enhance safety protocols and ensure a secure working environment for all personnel involved.

### Features :

- High Quality 77 GHz Radar Sensor.
- Millimeter wave radar technology.
- High accuracy on detection and warning.
- LED display shows the detection distance.
- Detection range 3 meters x 10 meters.
- 9-36 V wide voltage.
- Accurate ranging and digital display.
- 77 GHz anti - collision warning.
- Stationary and moving object detection.

