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Overwatch Anti-Entrapment device

The Overwatch safety system uses LIDAR technology to monitor operator movement, detecting potential crushing and shearing hazards and triggering alarms and automatic machine cutouts when necessary.

SPECIFICATIONS

- Sensor technology: LIDAR (Light Detection and Ranging)
- Laser wavelength: 850 nm
- Laser type: Low-power, invisible infrared laser
- Detection method: Time-of-flight distance measurement
- Target area: Operator's torso
- Monitoring parameters: Position, speed and acceleration
- Calibration: Each time the dead-man trigger is pressed
- Safety response: Audible alarm and automatic machine cutout
- Operating modes: Drive and Elevate

FEATURES

- LIDAR Sensor Technology – Uses an 850 nm infrared laser to detect the operator's position and movement.
- Real-Time Monitoring – Continuously measures the operator's position, speed and acceleration relative to the controls.
- Automatic Calibration – Establishes a baseline position each time the dead-man trigger is pressed, adapting to the individual operator and current conditions.
- Collision and Shearing Protection – Detects movements that may indicate a potential crushing or shearing hazard.
- Automatic Machine Cutout – Stops machine operation when movement exceeds predetermined safety thresholds.
- Audible Warnings – Provides spoken alarms when potentially unsafe movements are detected.
- Drive and Elevate Mode Detection – Senses the machine's operating mode to help assess operator movement.
- No Facial Recognition – Operates using reflected laser light rather than facial recognition technology.