



OFD Obstacles Fall Detector

The OFD obstacles fall detector is a non intrusive stand-alone system that monitors the track to detect objects falling from bridges, viaducts, and tunnel entrances allowing the safe passage of trains. The OFD is based on μ w ave radar technology and vital electronics, using a horizontal area scan directly above track level.

When a fallen object is detected through the scanned area, an alarm is transmitted to the train control system or directly to the signal for setting it to red. The digital technology enables a simple interface with any signaling system.

The OFD works in any weather condition (rain, fog, snow, ...) and its functionality is not influenced by dirt or electromagnetic noise.

System Architecture

The main functional blocks are:

- radar detector of object fallen on the track
- vital output of detected obstacle
- logic control unit, implemented with fail-safe dual microprocessor detector of train approach to scanned area





General Specification

- μ wave radar fail safe technology
- stand alone system
- immunity from rain, snow, fog
- interface compatible with CTC
- small obstacle detection
- detection of every kind of material (wood, plastic, iron, rock, ...)
- EMC compliant
- extremely fast response time

