



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 and rock.)
- EMC compliant
- Extremely fast response time

Progress Rail's Obstacles Fall Detector (OFD) 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 wave radar technology and vital electronics, using a horizontal area scan directly above track level.

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

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.

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