

16-beam radar sensor for rail applications

The Matrix Rail is a presence detector designed for use at four-quadrant gate warning systems to detect stopped and moving vehicles with the reliability of radar and with all the advantages of non-embedded detection.



- Tracks vehicles through a 90-degree field of view that extends out 140 ft. (42.7 m)
- Applications include detecting vehicles, trains, motorcycles, bicycles at grade-level crossings; detecting trains in interlocker dead sections; switch fouling protection
- Above-ground mounting means easier installation and maintenance
- Provides multiple, user-configured detection zones and health circuits
- Flash upgradable
- Robust to changing temperature, light, and weather conditions
- Reports real-time presence of both moving and stopped vehicles
- Patented auto-configuration process
- Patented Digital Wave Radar II™ technology
- Bi-directional traffic detection
- Multiple, user-configured detection zones cover the entire crossing island
- Continuous self-checking and cross checking, failsafe operation

