The Platform Track Intrusion Detection System (TIS) YD190 protects passengers against approaching and departing trains in subway stations with driverless, remote controlled train operation. A grid of microwave barriers in innovative sensor technology monitors the track areas in front of the platform and at the tunnel entrances, optionally the area between two coupled trains. The transmitters are installed below the platform edge and the corresponding receivers are mounted to the tunnel wall. 16 transmitters with a distance of 0.156 m respectively receivers are installed in transmitter respectively receiver modules of 2.44 m length. A track area of up to 160 m can be monitored by the cascadable transmitter and receiver modules. They are connected to a Central Control Unit which controls the transmitters, evaluates the receiver output signals and provides an alarm signal to the

**Advantages & Benefits**

- Modular approach, platform length up to 160 m
- No alarms by paper and plastic bags
- Not influenced by rain, fog and snow
- Certified acc. EN 50 129 SIL 1
train protection system and the control centre, if at least two adjacent microwave barriers will be interrupted by a person or microwave absorbing/reflecting objects greater than 0.3 m.

While showcasing an industry leading low false alarm rate the TIS is virtually maintenance free and provides weather proven safety without being compromised by small animals, birds, rain, fog, paper, cardboards, plastic bags, leaves, etc..

The TIS is certified according to EN 50129 SIL 1.