CARLO GAVAZZI
Automation Components

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Application notes

Application Note : October 2021

Market involved : Mobile equipment

Product : ICS E1 inductive sensors

Customer : Manufacturers of fire trucks

Subject : Immunity to false actuations due to radio communication

CUSTOMER ISSUE :

Fire fighters need reliable communication when they are dealing with everything from everyday incidents to major disasters.
In the face of danger, fire fighters stand on the front lines no matter the emergency and communication is critical to their various missions.
They need to do it quickly and efficiently via a dedicated secure platform for public safety communications.
Radio transmitters, such as two-way portable radiotelephone apparatus, have the potential to interfere with sensors installed on the vehicle, due to their very high electromagnetic interferences.
Industrial standard components would fail with expensive downtime.

OUR SOLUTION :

The ICS E1 sensors are immune to false actuations when exposed to field strengths of 200 V/m, which is a higher value than similar components available on the market.

BENEFITS :

- Protection against electromagnetic interference caused by radio transmitters with field strengths of 200 V/m
- Reliable operation in any condition
- Increased vehicle uptime