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Collision Avoidance System

Toulouse 07/16/2015

Subject: RADIO Certification of SAVEX

Applicant: P.S.T.
Product: SAVEX
Model: SA-TX
FCC ID: 2AE4JSATX

To Whom It May Concern:

We would like to submit the above product for Certification concerning FCC rules.
Please review all required documents enclosed.

This product is a pedestrian and off-road vehicle collision detector.
Each pedestrian (driver or not) bring a radiofrequency emitter using magnetic field low frequency called "SA-TX".

At the approach of a SA-TX, the reception system installed on an off-road vehicle, detects the signal and according of the calculated distance, an alarm is generated to the driver. The driver can use the machinery break in case of dangerous proximity with the pedestrian or another vehicle. Indeed, the system does not interact with the machinery.

Each SA-TX has its own frequency generated by the Direct Digital Synthesizer (DDS) and the Divider Filters Units, this frequency is settable by a specific infrared tool.

There is no modulation used, the signal is emit by two antennas in quadrature, the signals across them are phase shifted of $\pi/4$.

Compliance for RF exposure requirement was demonstrated in this test report.

If you have any queries, please do not hesitate to contact us.

Regards,

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