

Product Evaluation

RE: Review of 5433 IceSight (Surface Condition Sensor)

PRODUCT

5433 IceSight is manufactured by High Sierra Electronics located in Grass Valley, California and distributed by Interprovincial Traffic services Ltd located in Surrey, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS

5433 IceSight sensor's larger measurement area (than embedded sensors) provides for more representative and reliable results. The IceSight non-intrusive road surface condition sensor monitors the roadway for dry, damp, wet, and ice and snow conditions. The IceSight sensor also provides an output for surface temperature, friction coefficient, air temperature and relative humidity. The IceSight uses special signal processing techniques and comprehensive data analysis which make the sensor immune to passing traffic and various road treatment chemicals. Product web link: <http://www.highsierraelectronics.com/>

DESCRIPTION

The 5433 IceSight remote road surface condition sensor is a non-intrusive surface condition sensor that uses laser and infrared electro-optical technology to read surface condition, temperature and reduction of surface grip due to water, snow and ice.

POTENTIAL USAGE

The 5433 IceSight sensor is easily mounted to nearby traffic, luminary, camera poles or on RWIS towers. 5433 IceSight sensor is currently in use in the township of Langley, British Columbia and under review in the state of Utah.

STANDARDS

None provided

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product.

APPLICABLE STANDARDS

At present Alberta Transportation has no standard.

RECOMMENDATIONS:

The 5433 IceSight Surface Condition Sensor be listed as a Potential Product under Alberta Transportation Products List, Surface Sensors – Surface Condition Sensors – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

Caveat: This sensor would have to be used along with other atmospheric sensors as part of an overall Road Weather Information System (RWIS) station. Accuracy, reliability, and durability of the system will need to be verified by actual usage under Alberta's road weather conditions. We would also require the vendor to work with our current RWIS provider (Schneider Electric) to incorporate this product into a new station or retrofit an old one.



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TRIAL PROJECTS

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