

Product Evaluation

RE: Review of AV-400 Solar RRFB

PRODUCT

AV-400 Solar RRFB is a Flashing Beacon manufactured and distributed by Aailed Technologies Corp. located in Victoria, BC. Website: www.availedtechnologies.com

VENDOR CLAIMS AND INFORMATION

CLAIMS

The AV-400 Solar RRFB has a high intensity light output which exceeds MUTCD requirements by up to five times. Its rated operating capacity exceeds 300 activations per day. The light intensity of the yellow indications during daytime conditions meets the minimum specifications for Class 1 yellow peak luminous intensity in the Society of Automotive Engineers (SAE) Standard J595.

DESCRIPTION

AV-400 Solar RRFB system consists of a solar engine, one or two RRFB lightbars, and a pedestrian push button. The solar engine houses the solar panel, controller, and batteries. The solar panel is of high efficiency monocrystalline and is of minimum of 20W. The controller consists of a single circuit board device that manages all operational functions, including wireless connection between systems, solar charging of the batteries, and flash sequence of the lightbars. The system operating temperature range is -40 to 74° C and battery operating temperature range is -40 to 60° C. RRFB unit consists of two rapidly flashed rectangular-shaped yellow indications, each with an LED-array based pulsing light source. The size of each RRFB indication is at least 5 inches wide by at least 2 inches high. The two RRFB indications for each RRFB unit are aligned horizontally, with the longer dimension horizontal and with a minimum space between the two indications of at least 7 inches, measured from nearest edge of one indication to the nearest edge of the other indication. The RRFB is normally dark, and is initiates operation only upon pedestrian actuation, and it ceases operation at a predetermined time after the pedestrian actuation.

POTENTIAL USAGE

AV-400 RRFB can be used for Crosswalk improvement.

STANDARDS

It is compliant to NEMA TS 2, Sections 2.2.7, 2.2.8, and 2.2.9 for temperature/humidity, vibration, and shock.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has used similar products in its projects.

APPLICABLE STANDARDS

Alberta Transportation recommended practices on Beacon.

http://www.transportation.alberta.ca/Content/docType233/Production/18Flashing_Beacons.pdf

Alberta Transportation Specification 5.18, Supply of Permanent Highway Signs, Posts and Bases

RECOMMENDATIONS

AV-400 24 Hour Solar Flashing Beacon be listed as a Potential Product under Alberta Transportation Products List, Signs and Support Systems - Specialized Applications - Warning Signs – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat:

TRIAL PROJECTS

Rishi Adhikari

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