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VEKTOR – Vehicle ADS-B Tracking System

VEKTOR

Overview

At all airports, worldwide, ground vehicle incursion into critical safety areas is rising. Vektor minimizes the risk by using a fully standards compliant, vehicle-mounted ADS-B transmitter that continually broadcasts a vehicle's location on 1090MHz. The transmitter can be permanently or magnetically mounted to all airside vehicles, including tugs, fire, rescue and de-icing equipment. Each vehicle is clearly and uniquely identified, providing an essential addition to any surface movement guidance and control system.

The design of Vektor ensures easy integration and interoperability with any multilateralization or ADS-B system based on ICAO Annex 10 defined Mode S Extended Squitter datalink.

Integrated KML mapping functionality allows each airport to define geofenced inclusion and exclusion zones to accurately define where Vektor does and does not transmit based on internal GPS location.

Specifications

Transmit Message Type	DF18 Identification, Surface Position and Operational Status Messages per DO-260B	**Transmit Power**	20 Watts peak power
		Transmit Frequency	1090 ± 1 MHz
ADS-B Transmit Periods		**Pulse & Spectral performance**	DO-260B, DO-181C
Surface Position	0.5 secs - vehicle in motion 5 secs - vehicle at rest	**Vehicle ID**	Field configurable
Identification	5 secs - vehicle in motion 10 secs - vehicle at rest	**24-bit ICAO ID**	Field configurable
Operational Status	5 secs - always	**Operating Temperature**	-45 to +80 °C
		Input Power	11 to 32 Volts DC, 1.5 Watts

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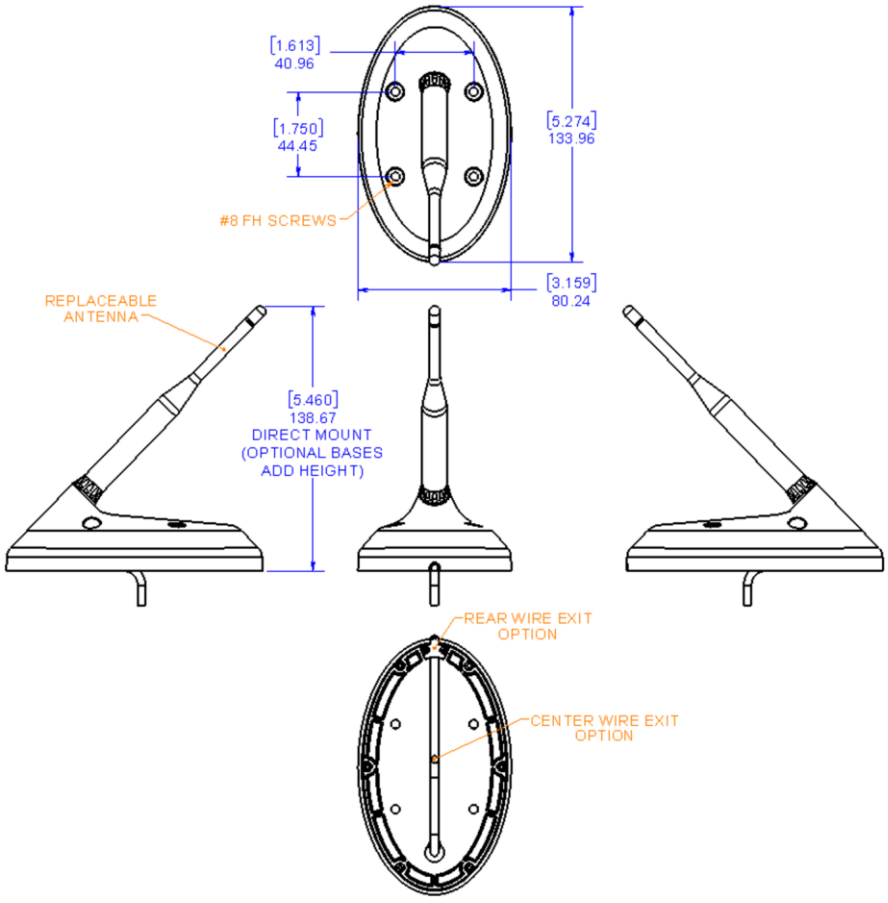
Features

- SBAS-enabled GPS receiver and Mode S Extended Squitter ADS-B for highly accurate, reliable positioning
- Ability to automatically disable transmission when vehicle leaves movement area
- Low power consumption for connection to accessory power outlet
- Magnetic or mechanical mounting
- Improved surface situational awareness
- Reduced incursion risk
- IP67 enclosure for safety enhancements under all weather conditions
- Field configurable via secure WiFi

Squitter Map Application



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