



Features

- Rugged construction
- Buy America compliant
- Data transmission speed 50x faster than VETAG
- Data messages contain 13 bytes vs VETAG 19 bits
- Increased reliability (CRC 16 and parity check)

Benefits

- Specially designed for low-floor vehicles (low footprint)

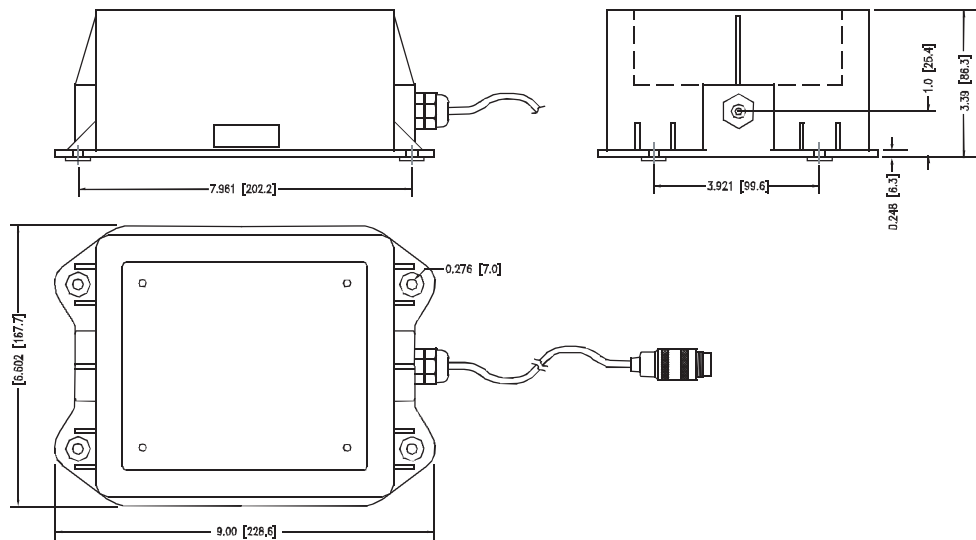
Introduction

The VECOM Transponder (VT-60) is the latest VECOM Vehicle Equipment to be used when bi-directional data transmission between the wayside system and the vehicle equipment is required. The VECOM Transponder (VT-60) is a rugged send and receive antenna with a built-in amplifier. The transponder has a fixed cable for supply voltage and communication with the Vehicle Communication Unit (VCU). The housing of the transponder meets the IP67 requirement. The default state of the transponder is passive and will only transmit a signal when activated by a VECOM or VETAG Wayside System Loop Antenna.

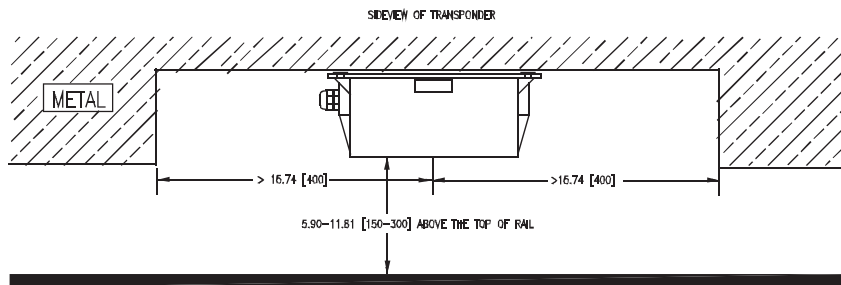
Mounting

The recommended mounting method of the VECOM Transponder (VT-60) is with a bracket. Due to the variety of vehicle configurations, this bracket must be supplied by the customer to ensure the correct size. The following guidelines should be followed for mounting the unit underneath the vehicle (see page 2 - Mounting Diagram):

- Up to 78.7" (200 cm) from the front of the vehicle
- In the center line of the vehicle
- Within the clearance gauge of the vehicle
- Must be mounted horizontally
- The connection cable must be at the rear of the transponder after mounting
- The transponder cable should be fastened every 4" (10 cm). Under no circumstances should the cable fasteners damage the cable
- The signal transmitted by the unit is weakened if placed within the vicinity of the vehicle's metal assembly. Therefore there should be a minimum distance of 15.74" [40cm] between the center of the transponder and surrounding metal of the vehicle (we recommend keeping the distance between the transponder and vehicle assembly as large as possible)
- The distance between the bottom side of the transponder and the road surface (loop antenna) should be as small as possible; a minimum of 5.9" (15 cm) and a maximum of 11.8" (30 cm) is recommended



Transponder Dimensions



Mounting Diagram

Specifications

| | | |
|--------------------------|----------------------|---|
| Power Requirements | Power Consumption | 24VDC 370mA (while the transponder is transmitting) |
| | Input Voltage | 19 - 32VDC, Nominal 24VDC |
| Environment | Temperature | -13 ~ +158 °F (-25 ~ +70 °C), Operating |
| | Humidity | -95% @ 104 °F (+40 °C) (non-condensing), Operating |
| | Vibration Resistance | 1 Grms, IEC 60068-2-64, Random, 5 ~ 500 Hz, 1 Oct/min, 1 hr/axis, Operating |
| | Shock Resistance | 20 G, IEC 60068-2-27, half sine, 11 ms, Operating |
| Physical Characteristics | Construction | 6-POLYAMIDE K1098 housing |
| | Mounting | Horizontal on bracket |
| | Dimensions (WxHxD) | 9.00" x 3.39" x 6.60" (228 x 86 x 167mm) |
| | Weight | 4.05 lb (2.04 kg) |

Ordering Information

| Part Number | Description |
|----------------|--|
| 6950 0000 5141 | VECOM Transponder (VT60) with 236.22" [6m] cable |
| 6950 0000 5142 | Transponder Extension cable with length of 393.70" [10m] |

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VECOM USA is proud to be ISO 9001:2000 Certified

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