

TS1

INSTALLATION AND OPERATING INSTRUCTIONS



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1 Features

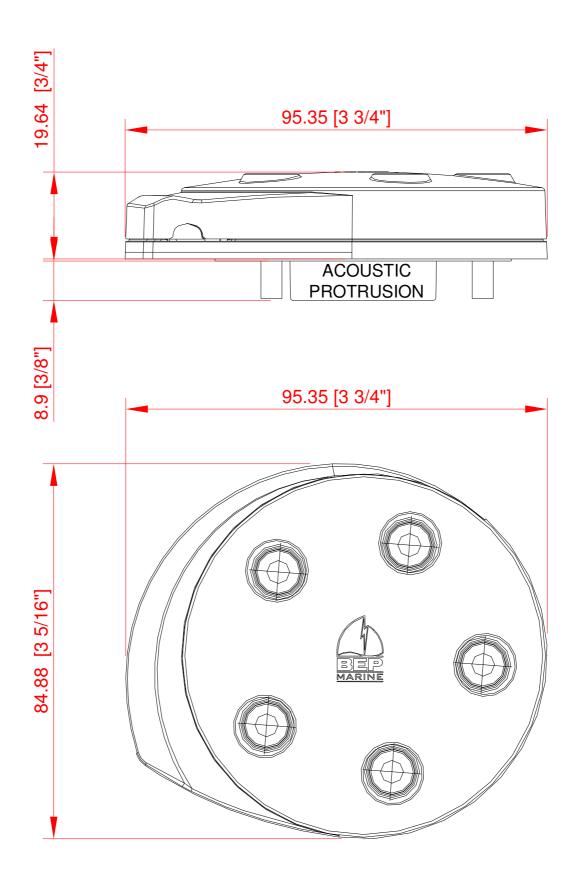
- 10V_{MIN} to 32V_{MAX} DC.
- Operating distance of 0mm to 2000mm.
- Linear and non linear tank calibration at 5 levels.
- Supports metal and plastic tanks.
- Industry standard SAE-5 stud mounting pattern with gasket seal and washers.
- Supports 10-180, 10-300, 240-33 and 0-5 volt gauge outputs.
- Resistant to Petrol, Diesel, Water, and Chemical Toilet.
- Operating temperature range of 4 to 65 degrees C.

2 Plug Information and Specifications

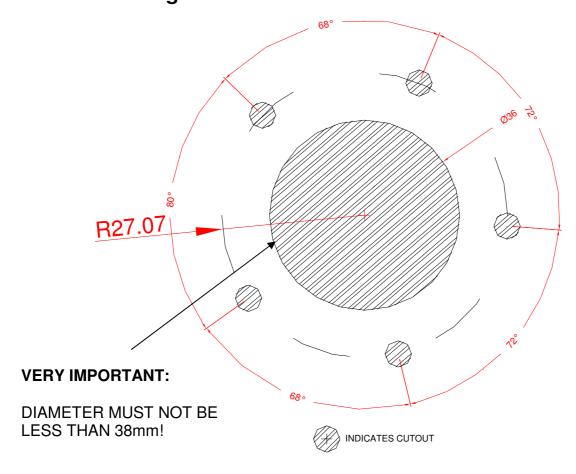
- RED Battery Positive.
- BLACK Battery Negative.
- GREEN Output to gauge.

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3 Dimensions



4 Mounting

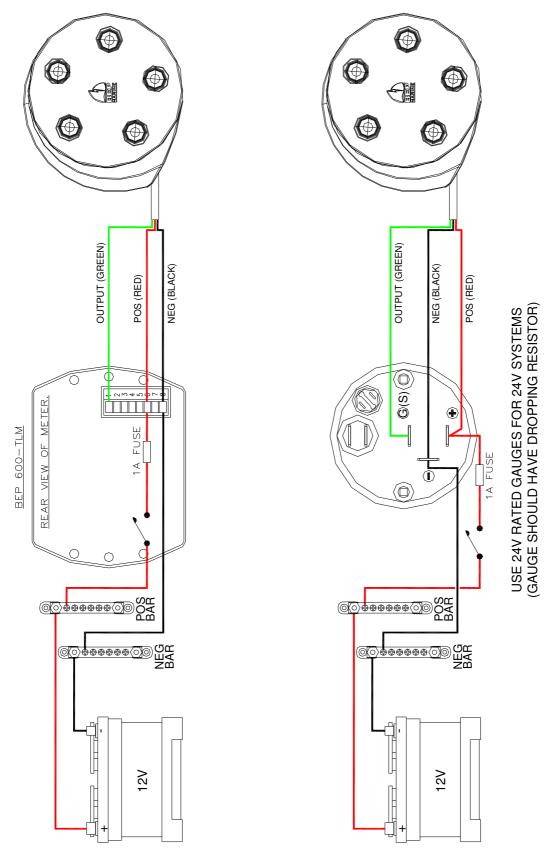


Drawing is not to scale. Please use the tank gasket as a template.

IMPORTANT:

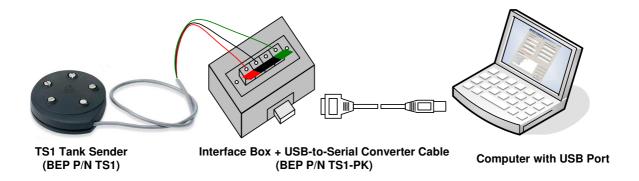
- Mounting with baffles: The tank sender TS1 can be mounted 60mm from a vertical tank baffle.
- The TS1 must be mounted at the deepest tank point. Otherwise, the TS1 will not operate correctly.
- The TS1 "acoustic protrusion" (see dimensions drawing) must not touch the wall of the tank. Otherwise, the TS1 will not function!
- Please use the gasket provided. Otherwise, the TS1 will not function!
- Use 5 washers provided, washers must be placed under screw heads to prevent rubber lid damage.
- Maximum torque for the mounting screws is 0.5 Newton meter.

5 Wiring Diagram



Power must be removed before TS1 is connected to the system. **Ensure wiring is correct or else damage may occur rendering the device inoperable.**

6 Programming Setup



Please visit the BEP website for the programming software.

7 Problem Solving

Error message: The output will decrease towards empty and increase towards full, repetitively when no tank depth can be found after approx ten minutes.

Water Tanks: After long periods of no use, condensation will build up on the roof of the water tank and the sender face. If the water droplets are large, the sender will not be able to read the contents of the tank accurately. This will clear with normal boat or RV use.

Waste Tanks: Large amounts of foam bubble on the surface of the liquid caused by detergents or washing powders will result in the sender not receiving reflected sound pulses back from the liquid surface, instead these will be absorbed by the bubbles until they disperse. Then normal operation will resume.





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Please visit our website for the latest International Distributor List

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