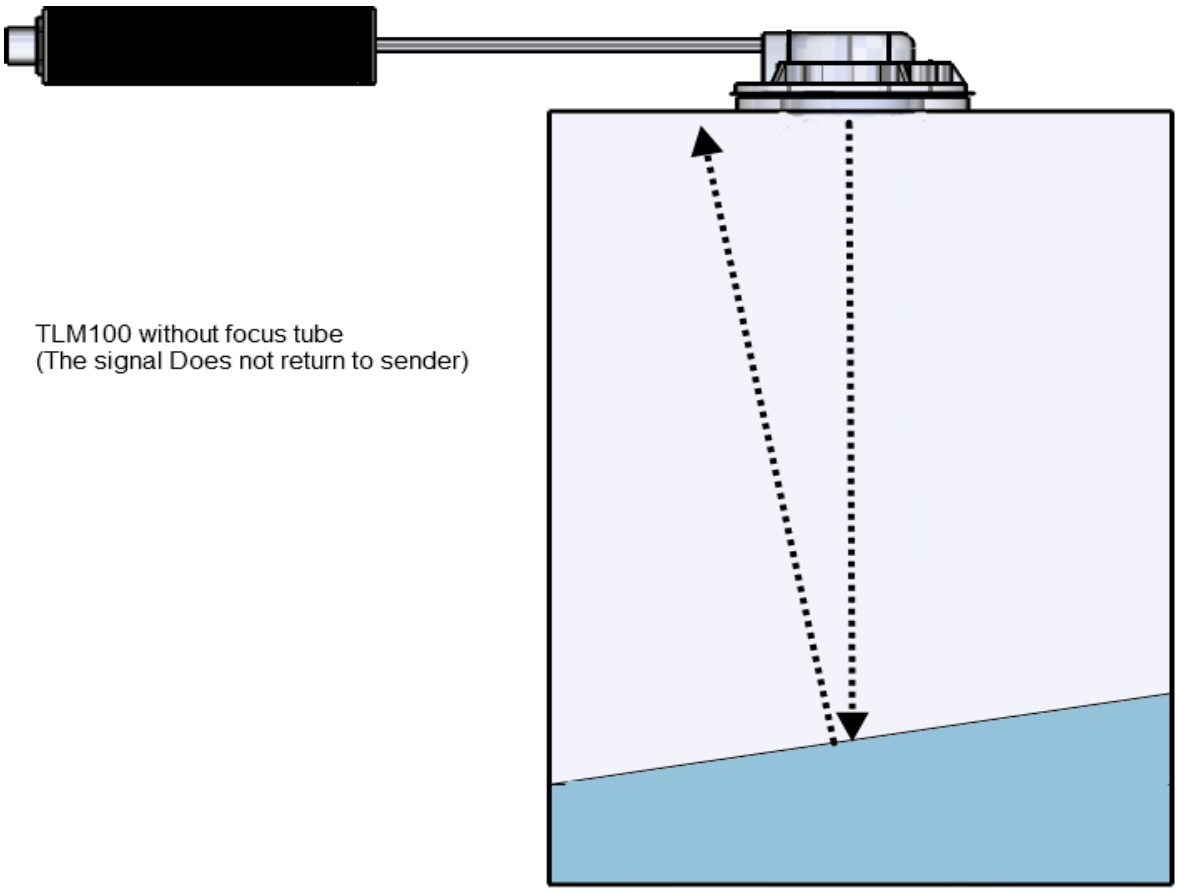
What happens when I use the TLM100/150 without a focus tube?

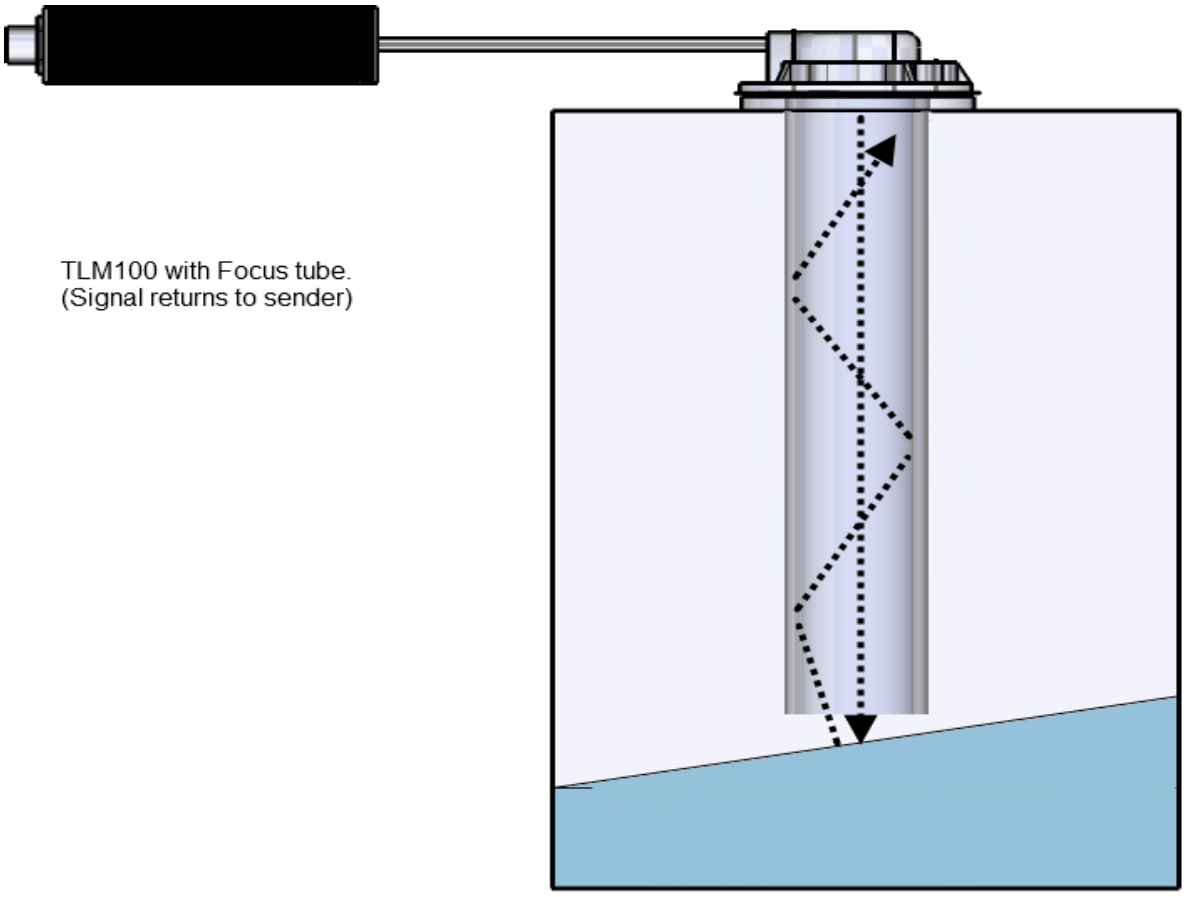
470 Mark Oslund July 27, 2015 TLM100, TLM150 0 9.91K

A focus tube is recommended for tank applications that experience a drastic level change when the vessel is underway.
The TLM100 transmits an ultrasonic pulse that allows the device to calculate the distance from the sensor to the fluid surface (similar to depth sounders). When the vessel begins to plane, the tank level changes. The liquid shifts to one side of the tank leaving, a sloped surface which will cause the sound pulses from the TLM100 will bounce around the tank and not back to the TLM100 sensor, as shown in the following illustration:



TLM100 without focus tube
(The signal Does not return to sender)

A focus tube helps control this change within the tank. The focus tube helps guarantee that a signal will return back to the sensor, eliminating this issue of signal loss, as shown below:



TLM100 with Focus tube.
(Signal returns to sender)

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