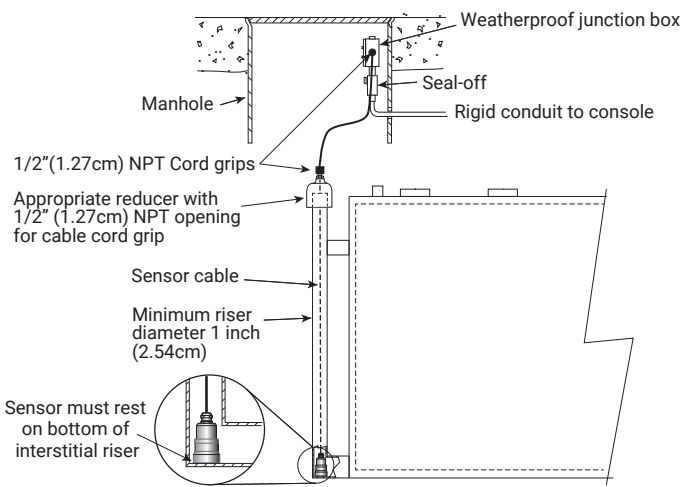| Sensor Description	Position Sensitive Interstitial Sensor for Steel Tanks	This type of sensor detects the presence of liquid in small containment areas (i.e., spill buckets) of double-wall steel tanks. In addition, it provides an alarm when the sensor is not positioned correctly on the bottom of the interstitial space.

Part Number	794380-333

Where Used (Typical)

☐ Dispenser Pan ☑ Annular Space
☑ Spill Containment ☐ Monitoring Well
☐ STP Sump ☐ Oil/Water Separator Tank
☐ Convault Tank

Category

☐ Discriminating
☑ Non-Discriminating
☑ Position Sensitive
☐ Level Sensing
☐ Static Testing
☐ Hydrostatic

Fuel Compatibility

☑ Gas ☑ E-15 ☑ Green Diesel
☑ Diesel ☑ E-85 ☐ DEF
☑ Kerosene ☑ E-100 ☑ Waste Oil
☑ Jet Fuel ☑ Bio-Diesel 20 ☑ Motor Oil
☑ Aviation Gas ☑ Bio-Diesel 100

Console Compatibility (*International Only[1])	Recommended Min. Console Software	Sensor Interface Modules				
		Module Part #	Module Description	# of Modules per Console	# of Sensor Inputs per Module	Availability
TLS-450PLUS (8600 Series)	6A or Higher	332812-001	Universal Sensor Module (USM)	Up to 4 - TLS-4XX Up to 8 - TLS-4XX w/ opt. TLS-XB	16	Sold Separately
TLS-450	4A or Higher					
TLS4 (8601 Series)[1]	6A or Higher	330020-750	Universal Sensor Input Out-put Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)[1]		330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			

Alarm Notification	Normal	Sensor in Normal State - No liquid detected
	Fuel alarm	Not sitting correctly on bottom of interstitial space or liquid detected
	Sensor out	Sensor not communicating to ATG/Console

Installation Kit	312020-928	2" (50mm) Interstitial Sensor Riser Cap kit (Sold separately)

Specifications		Example Installation
Operating Principle	Reed Switch/Float	
Product Activation Height	1.4" (3.6cm)	
Operating Temperature	-4 to +140°F (-20 to +60°C)	
Dimensions	3.5" (8.9cm) high, 1.75" (4.4cm) diameter	
Miscellaneous/Notes	Standard Cable Length: 20ft (6.09m); 312020-928 (2" (50mm) Riser cap and adapter kit)	
Third Party Evaluation Links	*TLS-3XX/TLS-450 Series Consoles* *TLS4 (8601 Series) Consoles*	
Product Link	*Position Sensitive Interstitial Sensor for Steel Tanks*	
Warranty with System	1 Yr Parts & Labor	
Warranty (When purchased separately)	1 Yr Parts Only	

Example Installation:

- Weatherproof junction box
- Seal-off
- Rigid conduit to console
- Manhole
- 1/2"(1.27cm) NPT Cord grips
- Appropriate reducer with 1/2" (1.27cm) NPT opening for cable cord grip
- Sensor cable
- Minimum riser diameter 1 inch (2.54cm)
- Sensor must rest on bottom of interstitial riser

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Example Illustrations

Illustrations used in this guide for example sensor installations may contain components that are customer supplied and not included with the sensor. Please check with your Veeder-Root Distributor for recommended installation accessories.

Third Party Evaluations

Third party evaluations of the Veeder-Root sensors contained in this application guide can be found under the Veeder-Root vendor name on the National Work Group on Leak Detection Evaluations (NWGLDE) website:

 http://www.nwglde.org