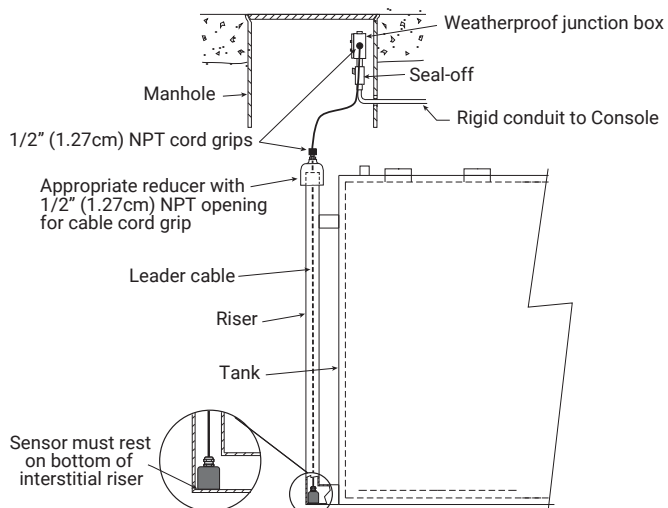| Sensor Description	Interstitial Sensor for Steel Tanks	The Interstitial Sensor for Steel Tanks is non-discriminating and detects the presence of liquid between the double walls of the tank.

Part Number	794390-420 (16'/4.88m cable); 794390-460 (30'/9.14m cable)

Category

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

Fuel Compatibility

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

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		4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module	1	8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			

Alarm Notification	Normal	Sensor in Normal State - No liquid detected
	Fuel Alarm	Liquid detected
	Sensor Out	Sensor not communicating to ATG/Console

Where Used (Typical)

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

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

Specifications		Example Installation
Operating Principle	Reed Switch / Float	
Product Activation Height	1.4" (3.56cm)	
Operating Temperature	-4 to +140°F (-20 to +60°C)	
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter	
Miscellaneous/Notes	794380-420 (cable 16ft (4.9m)); 794380-460 (cable 30ft (9.1m)); 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	*Interstitial Sensor for Steel Tanks*	
Warranty with System	1 Yr Parts & Labor	
Warranty (When purchased separately)	1 Yr Parts Only	

Example Installation diagram labels:
- 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
- Leader cable
- Riser
- Tank
- 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