

Sensor Products

Application Guide



VEEDER-ROOT

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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:

<https://neiwpsc.org/nwglde/>

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Sensor Description	Part #	Page #	Where Used							Category						Fuel Compatibility													
			Dispenser Pan	Spill Containment	STP Sump	Convault Tank	Annular Space	Monitoring Well	Oil/Water Separator Tank	Discriminating	Non-Discriminating	Position Sensitive	Level Sensing	Static Testing	Hydrostatic	100% Gasoline	ASTM D975 Diesel	Kerosene	Jet Fuel	Aviation Gas	ASTM D7547 E-15	E-85	E-100	ASTM D7467 Bio-Diesel 20	ASTM D6751 Bio-Diesel 100 ³	ASTM D975 Renewable (Green) Diesel	Diesel Exhaust Fuel (DEF)	Waste Oil	Motor Oil
Discr. Dispenser Pan	0794380-322	5	X	X					X						X	X	X	X	X	X	X ¹		X		X		X	X	
Discriminating Containment Sump	0794380-352	7		X	X				X						X	X	X	X	X	X	X ¹		X		X		X	X	
Solid-State (Optical) Discr. Dispenser Pan	0794380-320	9	X	X					X						X	X	X	X	X	X	X ¹		X	X			X	X	
Solid-State (Optical) Discr. Containment Sump	0794380-350	11		X	X				X						X	X	X	X	X	X	X ¹		X		X		X	X	
Mag. Discr. Level Indicating Containment Sump	0857080-xxx	13	X	X	X				X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Solid-State Non-Discriminating Dispenser Pan	0794380-321	15	X	X						X					X	X	X	X	X	X	X		X	X	X		X	X	
Solid-State Non-Discriminating Containment Sump	0794380-351	17		X	X					X					X	X	X	X	X	X	X		X	X	X		X	X	
Piping Sump-12' (3.66m) Cable	0794380-208	19	X	X	X					X					X	X	X	X	X	X			X		X		X	X	
Non-Discriminating Stand-Alone Dispenser Pan	0847990-001	21	X	X	X					X					X	X	X	X	X	X			X		X		X	X	
Position Sensitive	0794380-323	23	X	X	X					X	X				X	X	X	X	X	X	X	X	X		X		X	X	
Solid-State Discr. Interstitial for Fiberglass Tanks	0794380-343	25				X	X		X						X	X	X	X	X	X			X	X	X	X	X	X	
Interstitial for Double-Wall Fiberglass Tanks	0794390-409	27					X			X					X	X	X	X	X	X			X		X				
Solid-State Interstitial for Fiberglass Tanks, High Alcohol	0794380-345	29					X			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Interstitial for Steel Tanks	0794390-4x0	31				X	X			X					X	X	X	X	X	X			X		X		X	X	
Interstitial for Steel Tanks, Position Sensitive ²	0794380-333	33		X		X	X			X	X				X	X	X	X	X	X	X	X	X	X	X		X	X	
Interstitial for Steel Tanks, High Alcohol	0794380-430	35				X	X			X					X	X	X	X	X	X	X	X	X	X	X		X	X	
MicroSensor	0794380-344	37		X		X	X			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
(Dual-Point) Hydrostatic Reservoir	0794380-303	39					X							X	X	X	X	X	X	X	X	X ¹	X ¹	X	X ⁴	X		X	X
Single-Point Hydrostatic	0794380-301	41					X							X	X	X	X	X	X	X	X	X ¹	X ¹	X	X ⁴	X		X	X
Single-Point Mini-Hydrostatic Reservoir (High Alcohol)	0794380-304	43					X							X	X	X	X	X	X	X	X	X	X	X	X	X		X	X
Monitoring Well Vapor	0794390-700	45						X							X		X	X	X										
Groundwater	0794380-62x	47						X							X	X	X	X	X	X			X		X		X	X	
Secondary Containment Vacuum Sensor	0857280-xxx	49					X			X					X	X	X	X	X	X	X	X	X	X	X	X		X	X


¹ Single use only if sensor was exposed to these fuels (Test per Sensor Operability Guide [P/N 577013-814] in E-10 or less)

² Small containment areas (i.e. spill buckets)

NOTE: P/Ns with X included represent multiple part numbers.

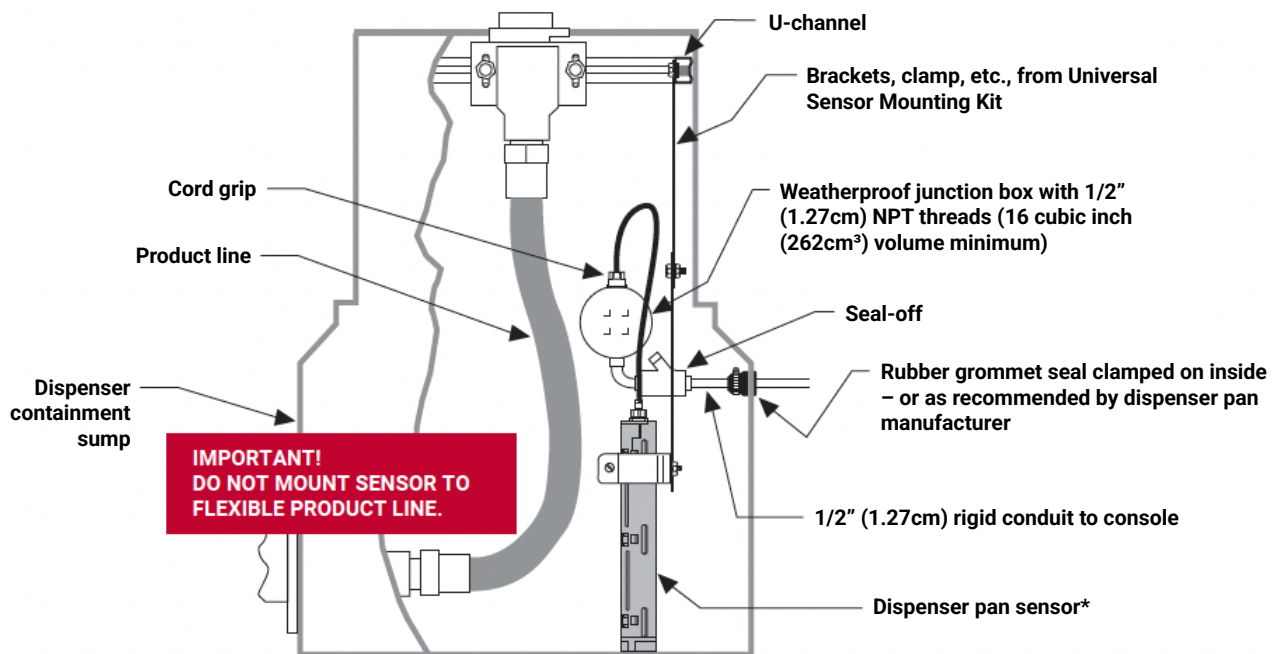
³ Indicates that sensor is compatible with all Biodiesel blends up to and including B100

⁴ Single use only if sensor was exposed to these fuels (Test per Sensor Operability Guide in B-20 or less)

Sensor Description	Discriminating Dispenser Pan Sensor	This type of discriminating sensor is installed in a dispenser pan and will detect the presence of, and differentiate between, hydrocarbons and other liquids.					
Part Number	0794380-322						
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic					
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	
¹ Single use only (Test per Sensor Operability Guide in E-10 or less)							
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately	
TLS-450	4.A or Higher						
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included	
TLS4i (8601 Series)		0330020-751			6		
TLS4B (8601 Series)							
TLS4c (8601 Series)							
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately	
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately	
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included	
Alarm Notification	Normal	Sensor in Normal State – No liquid detected					
	Low Liquid	Liquid detected at a minimum of 1.37" (3.48cm)					
	High Liquid	Liquid detected at a minimum of 7.66" (19.45cm)					
	Fuel Alarm	Permeable material saturated with fuel					
	Sensor Out	Sensor not communicating to ATG/Console					
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)					
Specifications							
Operating Principle	Product Permeable, Reed Switch / Float						
Product Activation Height	Gas – 0.125" (3.175mm) Water – Low: 1.37" (3.48cm), High: 7.66" (19.45cm)						
Operating Temperature	+32°F to +140°F (0°C to +60°C)						
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) diameter						
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)						
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link	Discriminating Dispenser Pan Sensor						
Warranty with System	1 Year Parts & Labor						
Warranty (When purchased separately)	1 Year Parts Only						


Where Used (Typical)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation


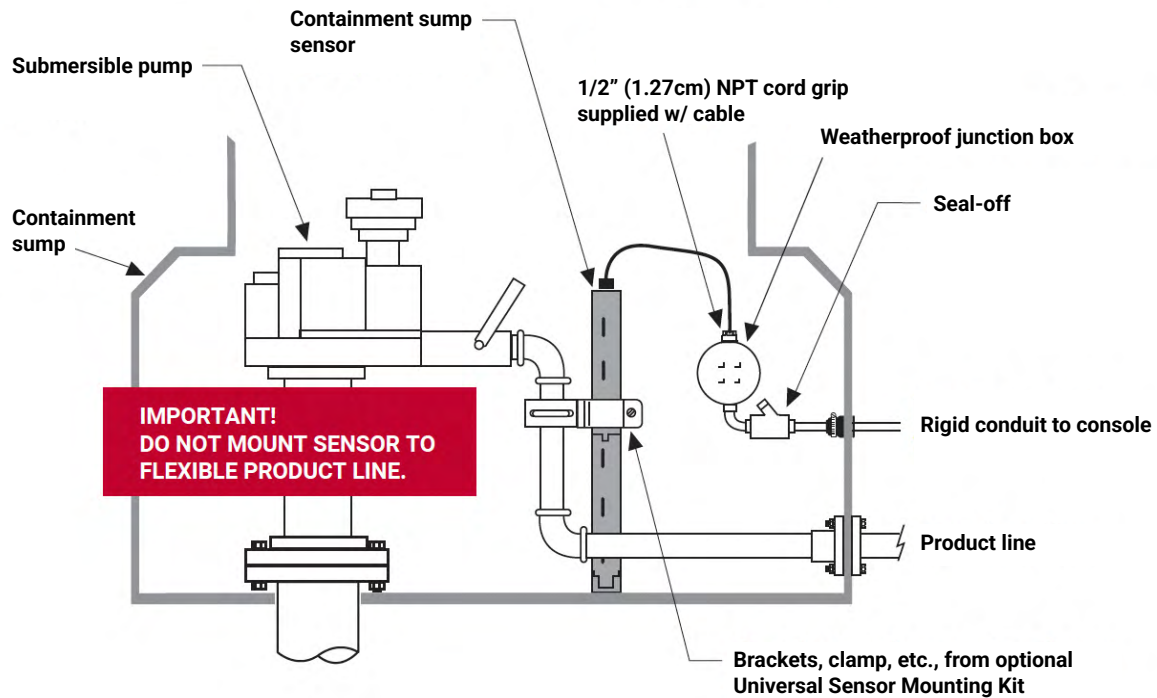
* Dispenser pan sensor should:


1. Rest in the cup or the lowest point of the dispenser containment sump.
2. Be positioned so as to be removable by pulling the sensor straight up out of the pan.
3. Be mounted in a true vertical position.

Sensor Description	Discriminating Containment Sump Sensor	This type of discriminating sensor is installed in a containment sump area. It detects the presence of, and differentiates between, hydrocarbons and other liquids.					
Part Number	0794380-352						
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100	<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	¹ Single use only (Test per Sensor Operability Guide in E-10 or less)			
Console Compatibility	Recommended Min. Console Software	Module Part #	Module Description	# of Modules per Console		# of Sensor Inputs per Module	Availability
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately	
TLS-450	4.A or Higher						
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included	
TLS4i (8601 Series)		0330020-751			6		
TLS4B (8601 Series)					8		8
TLS4c (8601 Series)							4
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately	
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately	
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included	
Alarm Notification	Normal	Sensor in Normal State – No liquid detected					
	Low Liquid	Liquid detected at a minimum of 1.35" (3.4cm)					
	High Liquid	Liquid detected at a minimum of 12.28" (31.19cm)					
	Fuel Alarm	Permeable material saturated with fuel					
	Sensor Out	Sensor not communicating to ATG/Console					
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)					
Specifications							
Operating Principle	Product Permeable, Reed Switch / Float						
Product Activation Height	Gas – 0.125" (3.175mm) Water – Low: 1.35" (3.4cm), High: 12.28" (31.19cm)						
Operating Temperature	+32°F to +140°F (0°C to +60°C)						
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) diameter						
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)						
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link	Discriminating Containment Sump Sensor						
Warranty with System	1 Year Parts & Labor						
Warranty (When purchased separately)	1 Year Parts Only						

Where Used (Typical)

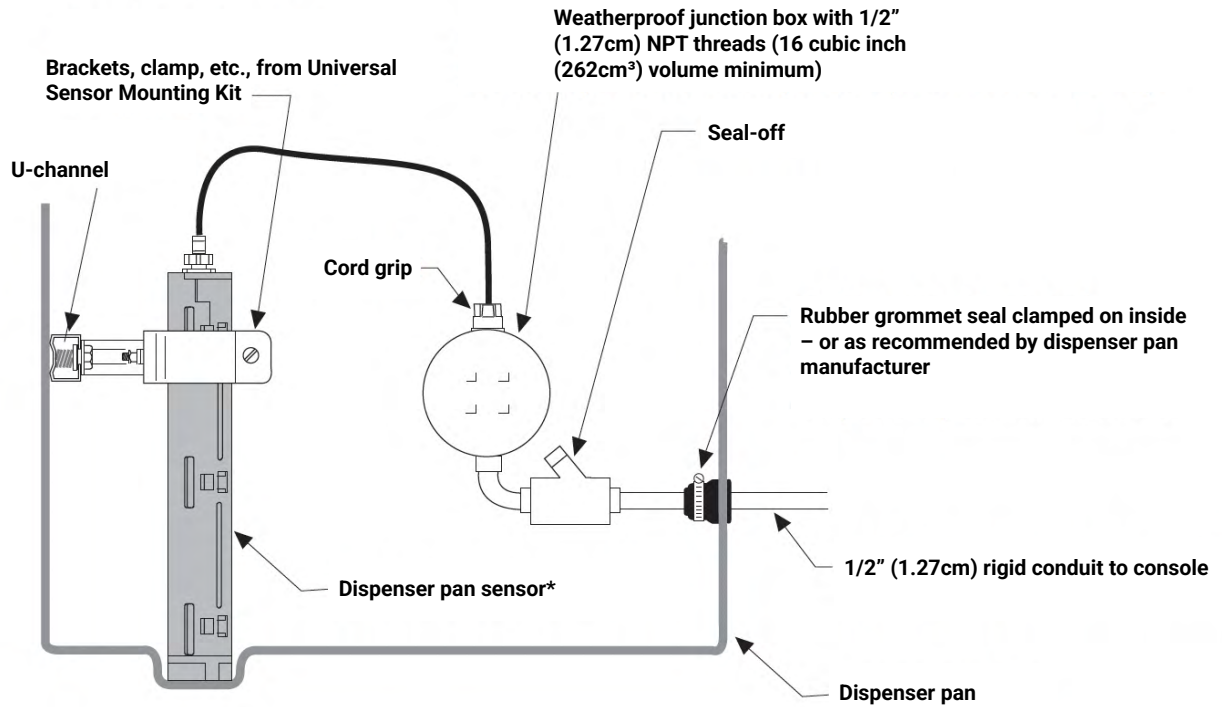
- | | |
|---|---|
| <input type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation


Sensor Description	Solid-State (Optical) – Discriminating Dispenser Pan Sensor	This type of discriminating sensor is installed in a dispenser containment sump area. It detects the presence of, and differentiates between, hydrocarbons and other liquids.				
Part Number	0794380-320					
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	8	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			4	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329950-001	Type B Interface Module	Up to 8	6	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.37" (3.4cm)				
	High Liquid	Liquid detected at a minimum of 7.66" (19.45cm)				
	Fuel Alarm	Permeable material saturated with fuel				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Electrical conductivity / optical					
Product Activation Height	Gas – 0.125" (3.175mm) Water – Low: 1.37" (3.4cm), High: 7.66" (19.45cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Dispenser Pan Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					



Where Used (Typical)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation


* Dispenser pan sensor should:

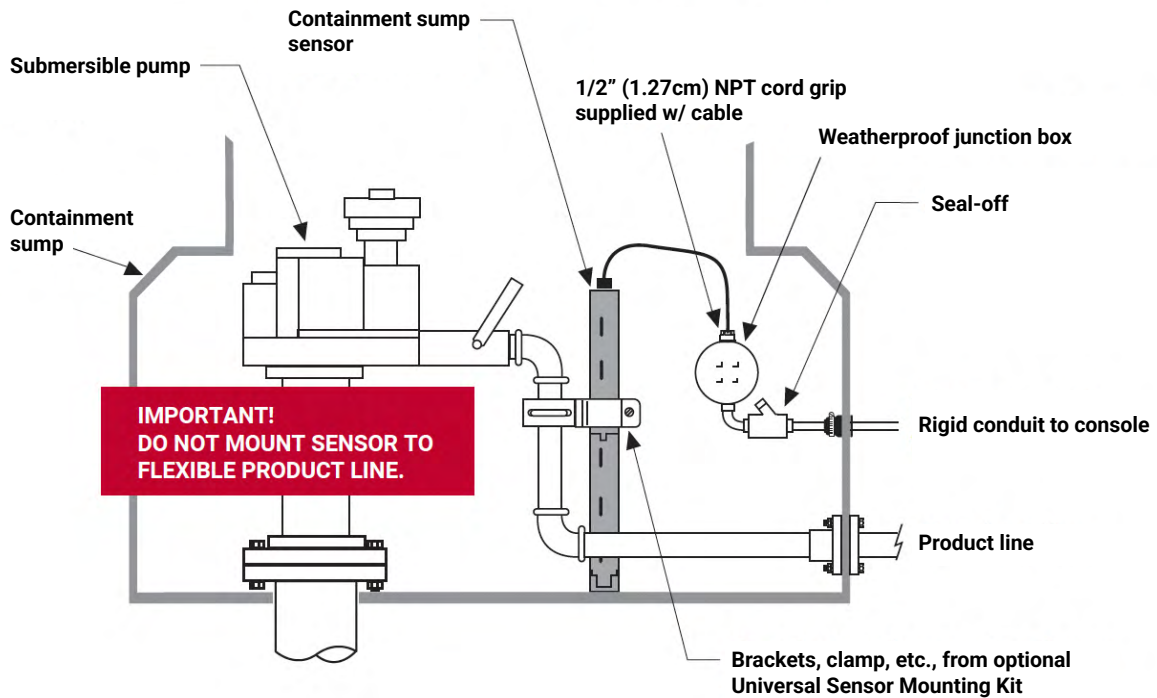
1. Rest in the cup or the lowest point of the dispenser pan.
2. Be positioned so as to be removable by pulling the sensor straight up out of the pan.
3. Be mounted in a true vertical position.


Sensor Description	Solid-State (Optical) – Discriminating Containment Sump Sensor		This type of discriminating sensor is installed in a containment sump and will detect the presence of, and differentiate between, hydrocarbons and other liquids.			
Part Number	0794380-350					
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		 	
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100			
¹ Single use only (Test per Sensor Operability Guide in E-10 or less)						
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	8	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			4	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329950-001	Type B Interface Module	Up to 8	6	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.37" (3.48cm)				
	High Liquid	Liquid detected at a minimum of 10.3" (26.2cm)				
	Fuel Alarm	Permeable material saturated with fuel				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Electrical conductivity / optical					
Product Activation Height	Gas – 0.125" (3.175mm) Water – Low: 1.37" (3.4cm), High: 10.3" (26.2cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Containment Sump Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation

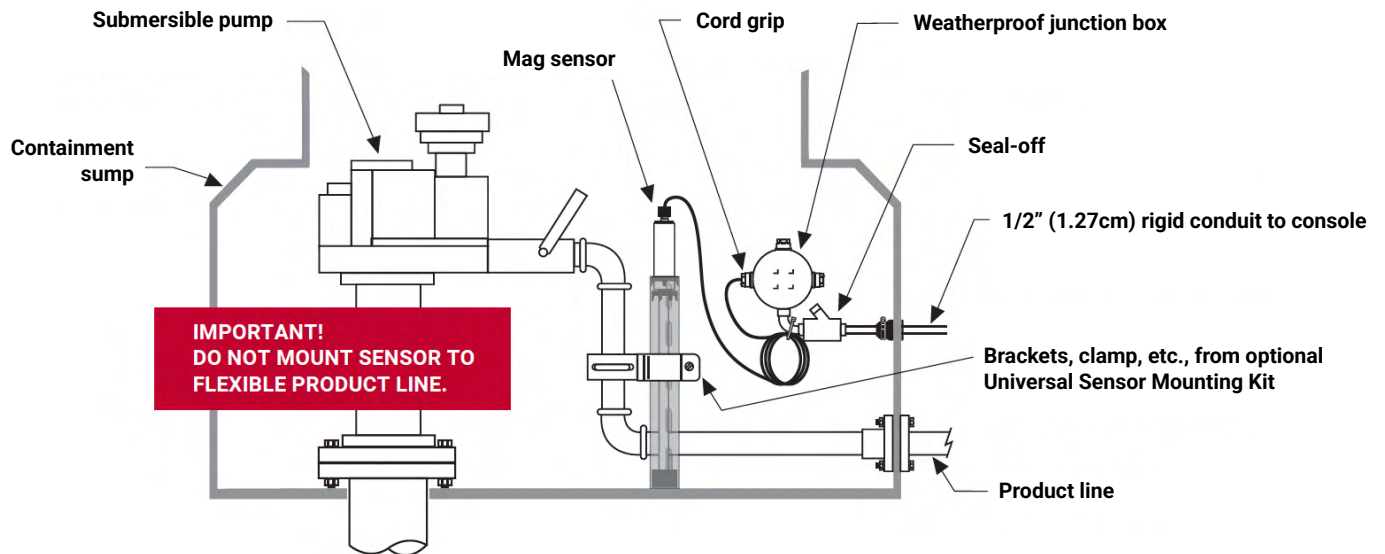




Sensor Description	Magnetostrictive Discriminating Level Indicating Containment Sump Sensor	This type of sensor is installed in a dispenser pan or containment sump and will detect the presence of, and differentiate between, fuel and other liquids.				
Part Number	0857080-111 (12"/30.48cm), -112 (24"/60.96cm) / 0857080-211 (12"/30.48cm), -212 (24"/60.96cm). The -211 and -212 sensors are capable of performing a Sump Integrity Test.					
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input checked="" type="checkbox"/> Position Sensitive	<input checked="" type="checkbox"/> Level Sensing <input checked="" type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher (-211 and -212 sensors require 126/326 or higher)	0329356-004	Smart Sensor Interface Module	Up to 8	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Water Alarm	Water detected at a minimum of 1.614" (2.83cm)				
	Fuel Alarm	Fuel detected 1.368" (3.47cm)				
	Sensor Comm. Alarm	Sensor not communicating to ATG/Console				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Magnetostrictive probe with dual floats					
Product Activation Height	Water – 1.614" (4.1cm) Fuel – 1.368" (3.47cm)					
Operating Temperature	-40°F to +140°F (-40°C to +60°C)					
Dimensions	2.4" (6.1cm) Diameter; 21.4" (54.4cm) Long (-111 and -211 models), 33.4" (84.8cm) Long (-112 and -212 models)					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Mag Sump Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation

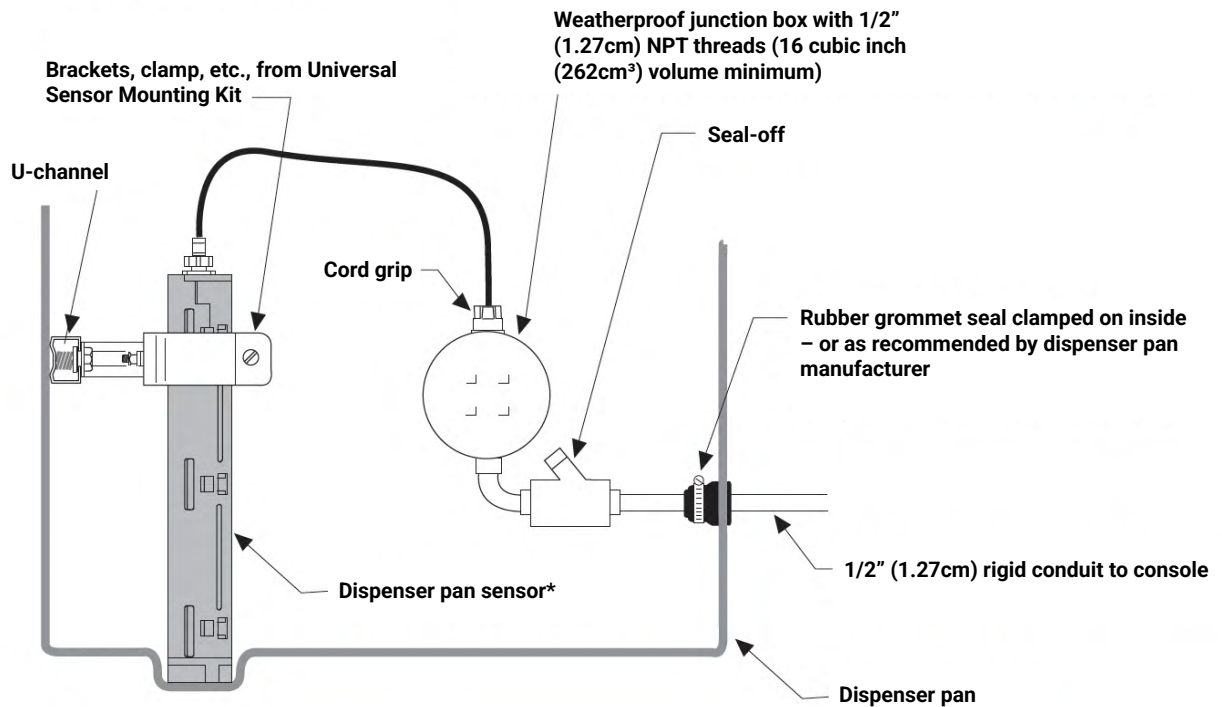


Sensor Description	Solid-State – Non-Discriminating Dispenser Pan Sensor		This Solid-State, Non-Discriminating Sensor is installed typically in a dispenser pan location to detect the presence of a liquid. Its optical liquid level technology requires no moving parts, allowing it to operate in sub-zero temperatures.			
Part Number	0794380-321					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		 	
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		0330020-751				
TLS4B (8601 Series)						
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329956-001	Type A Sensor Interface Module	Up to 8	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Liquid detected – Approx. 1.0" (2.54cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Optical – Looking at phase changes in the light beams by causing them to interact or interfere with one another					
Product Activation Height	Fuel or Water – Approx. 1" (2.54cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State - Non-Discriminating Dispenser Pan Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)



- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation



* Dispenser pan sensor should:

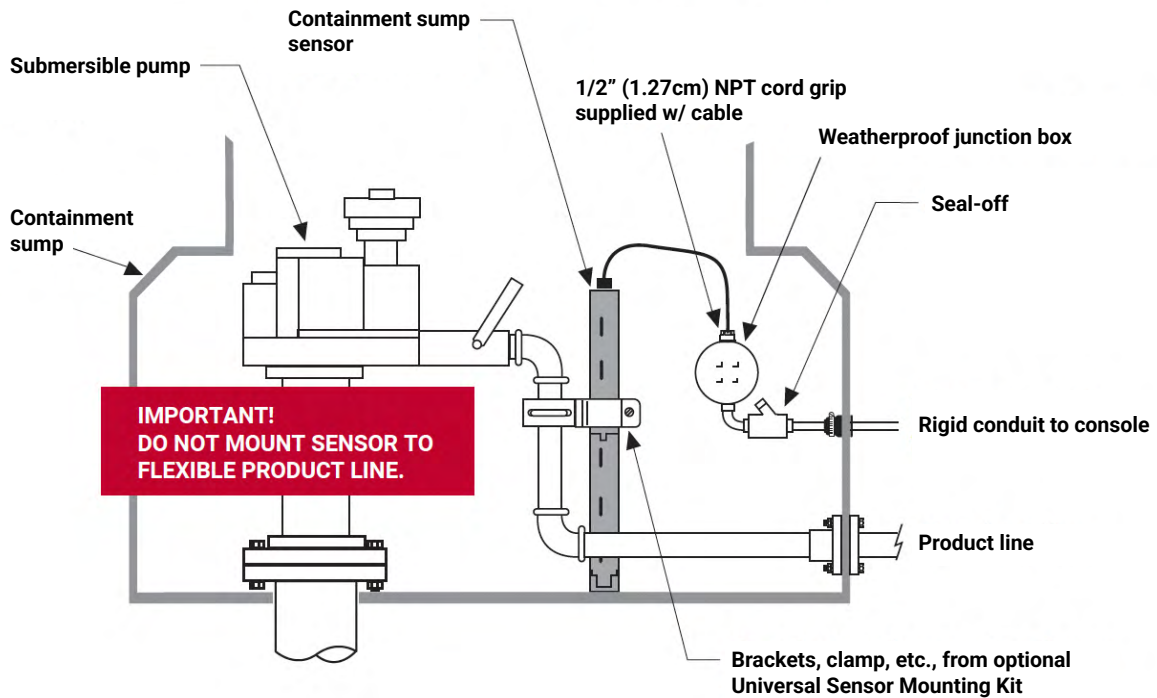
1. Rest in the cup or the lowest point of the dispenser pan.
2. Be positioned so as to be removable by pulling the sensor straight up out of the pan.
3. Be mounted in a true vertical position.


Sensor Description	Solid-State – Non-Discriminating Containment Sump Sensor Specifications		This Solid-State, Non-Discriminating Sensor is installed typically in a containment sump area to detect the presence of a liquid. Its optical liquid level technology requires no moving parts, allowing it to operate in sub-zero temperatures.			
Part Number	0794380-351					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		 	
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4– TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329956-001	Type A Sensor Interface Module	Up to 8	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Liquid detected – Approx. 1.0" (2.54cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Optical – Looking at phase changes in the light beams by causing them to interact or interfere with one another					
Product Activation Height	Fuel or Water – Approx. 1" (2.54cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Non-Discriminating Containment Sump Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation



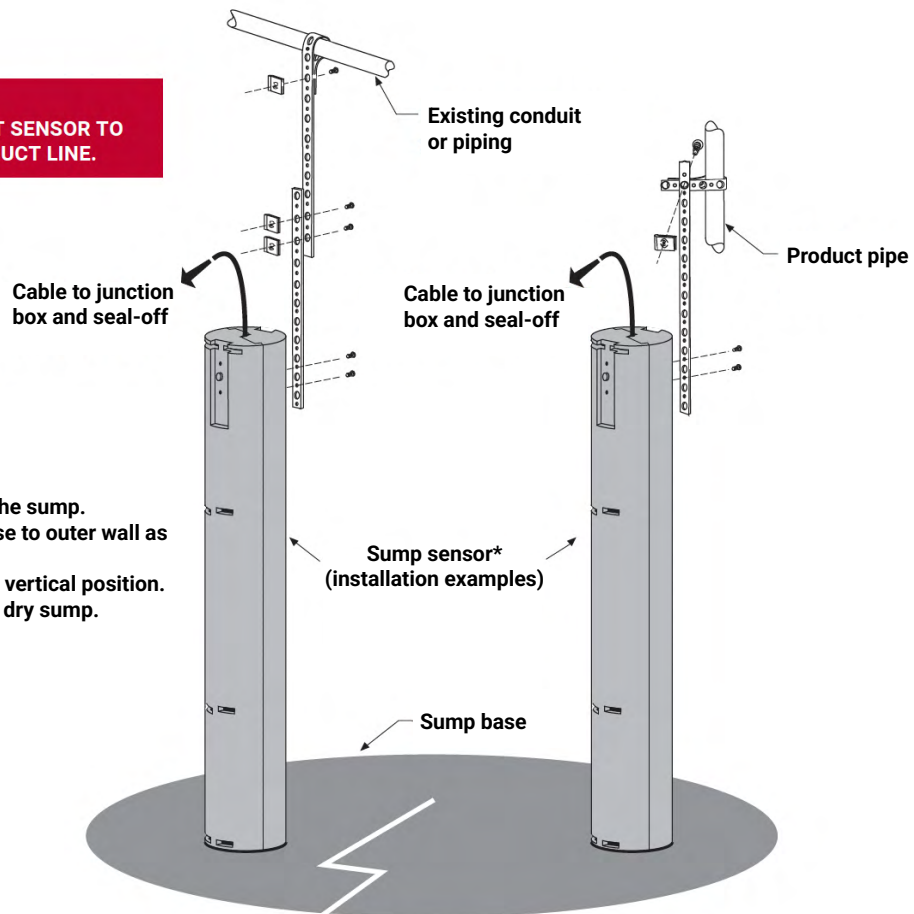
Sensor Description	Piping Sump Sensor	The Piping Sump Sensor is installed in a tank piping sump (STP Containment Sump) and will detect the presence of a liquid.				
Part Number	0794380-208					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Liquid detected at a minimum of 1.84" (4.67cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0330020-076	Piping Sump Sensor Mounting Kit is included (see example installation below)				
Specifications						
Operating Principle	Float / Magnetic Reed Switch					
Product Activation Height	Liquid 1.84" (4.67cm)					
Operating Temp	+32°F to +140°F (0°C to +60°C)					
Dimensions	12" (30.5cm) high, 1.9" (4.8cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m) Installation kit 0330020-076 included (see example installation)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Piping Sump Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)


- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation

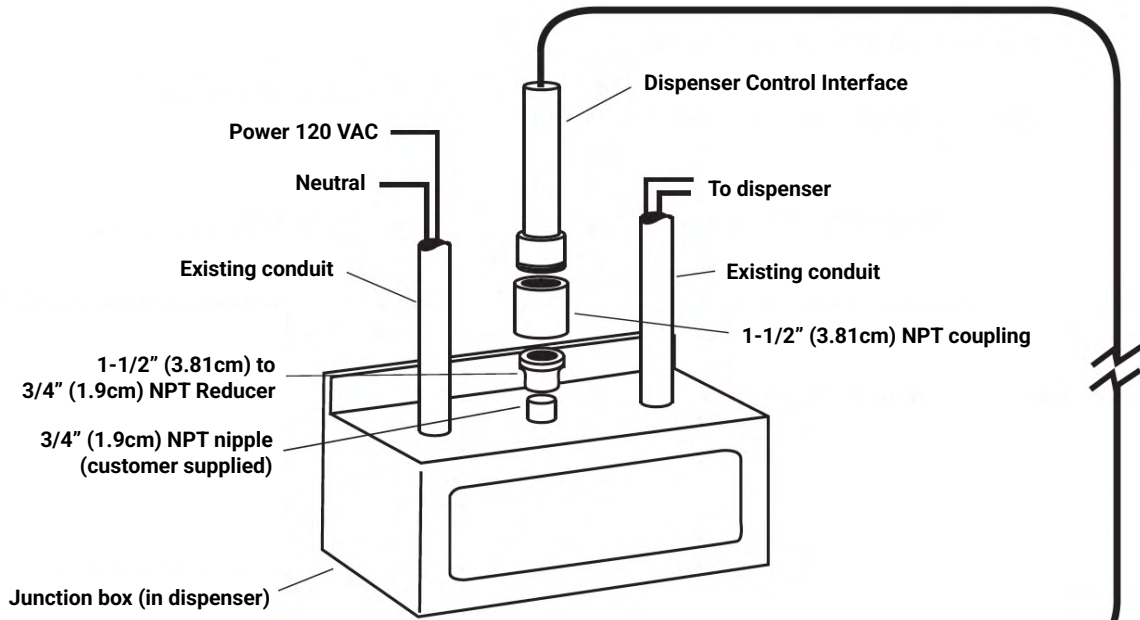
IMPORTANT!
DO NOT MOUNT SENSOR TO
FLEXIBLE PRODUCT LINE.


***Sump sensor should:**

1. Rest on the base of the sump.
2. Be positioned as close to outer wall as possible.
3. Be mounted in a true vertical position.
4. Be installed only in a dry sump.

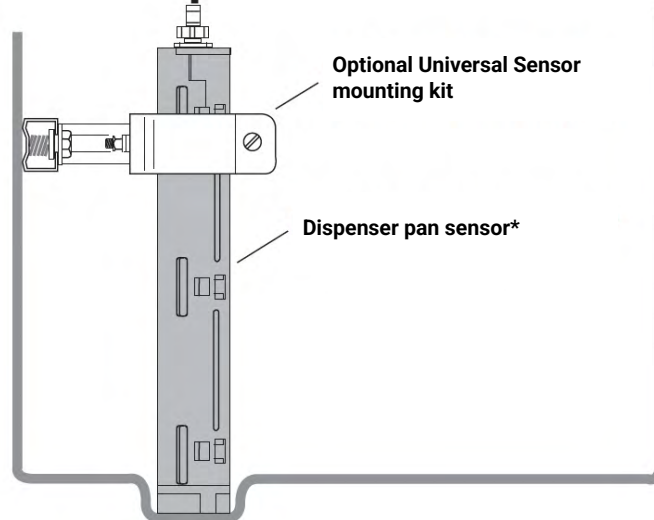
Sensor Description	Non-Discriminating Stand-Alone Dispenser Pan Sensor		The Non-Discriminating Stand-Alone Dispenser Pan Sensor is designed to detect liquid in a dispenser pan containment. When fluid is detected in the dispenser pan, this sensor shuts down (removes) AC power to the dispenser without the need for additional relays, circuitry, wiring, or an ATG System. The separate sensor control interface ensures intrinsically-safe integrity in a Class 1 Div. 1 Group D; Class 1 Zone 0 IIA hazardous area.	
Part Number	0847990-001			
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100		<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
¹ Single use only (Test per Sensor Operability Guide in E-10 or less)				
Console Compatibility	Not Required			
Alarm Notification	Normal	Dispenser operational		
	Liquid Detected	Remove power to the dispenser		
	Sensor Out	Remove power to the dispenser		
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)		
Specifications				
Operating Principle	Reed Switch / Float			
Product Activation Height	Gas – 1.71" (4.34cm) Water – 1.62" (4.11cm)			
Operating Temperature	+32°F to +140°F (0°C to +60°C) (freezing liquids)			
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) diameter			
Miscellaneous/Notes	<ul style="list-style-type: none"> • Latching alarm circuitry ensures dispenser can not be restarted until hazardous condition has been corrected • Connects directly to dispenser wiring • Controls most manufacturer's dispensers • Cable length: 5' (1.5m) • Control interface dimensions: 9.4" (23.9cm) high, 2.2" (5.6cm) diameter 			
Third Party Evaluation Link	Dispenser Control Interface			
Product Link	Non-Discriminating Stand-Alone Dispenser Pan Sensor			
Warranty with System	1 Year Parts & Labor			
Warranty (When purchased separately)	1 Year Parts Only			
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input checked="" type="checkbox"/> Spill Containment <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Convault Tank	<input type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank		


Example Installation



* Dispenser pan sensor should:

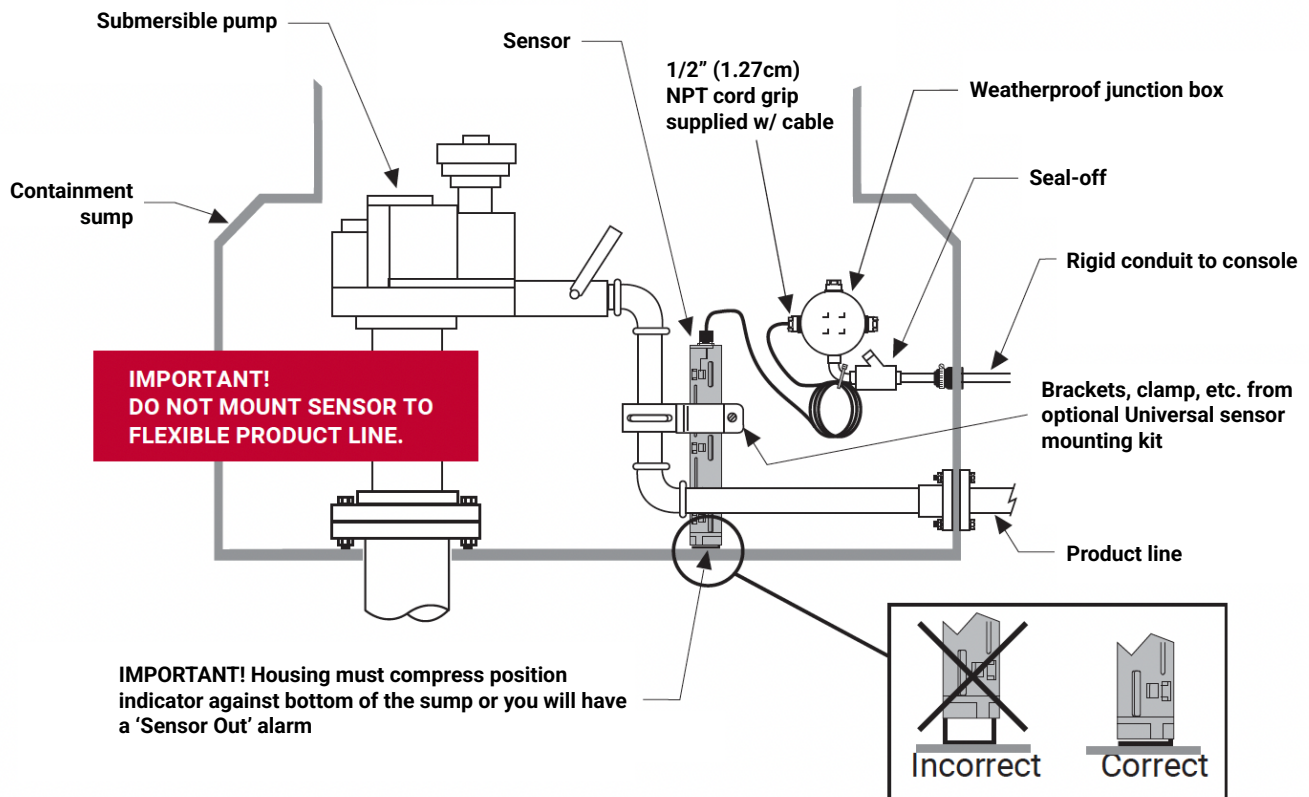
1. Rest in the cup or the lowest point of the dispenser pan.
2. Be positioned so as to be removable by pulling the sensor straight up out of the pan.
3. Be mounted in a true vertical position.

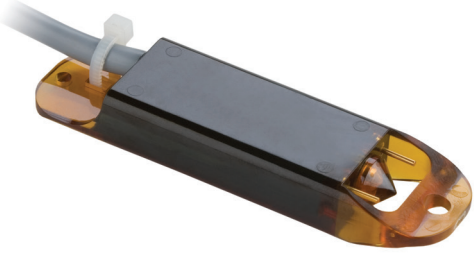


Sensor Description	Position Sensitive Sensor	This sensor is installed in a containment sump or dispenser pan and will detect the presence of liquid in the sump.				
Part Number	0794380-323					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input checked="" type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100	<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Sensor Out	Sensor not resting on bottom of containment or sensor not communicating to ATG/Console				
	Fuel Alarm	Liquid detected in containment area at approx. 1.5" (3.81cm)				
Installation Kit	0330020-012	Universal Sensor Mounting Kit (Sold Separately)				
Specifications						
Operating Principle	Product Permeable, Reed Switch / Float					
Product Activation Height	Liquid – Approx. 1.5" (3.81cm)					
Operating Temperature	+32°F to +140°F (0°C to +60°C)					
Dimensions	12" (30.5cm) high, 2.2" (5.6cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 12' (3.66m)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601Series) Consoles					
Product Link	Position Sensitive Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

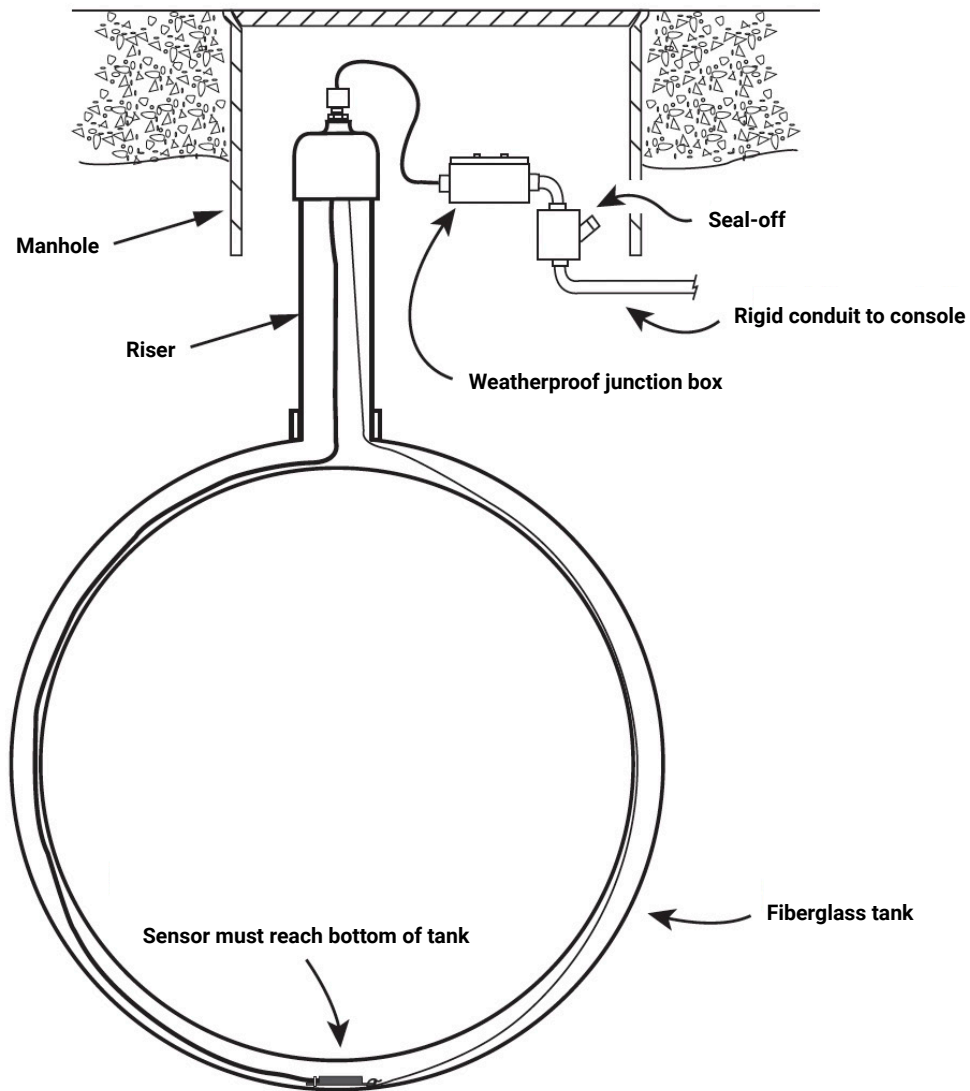
Example Installation



Sensor Description	Solid-State (Optical) Discriminating Interstitial Sensor for Double-Wall Fiberglass Tanks		The Discriminating Interstitial Sensor for Double-Wall Fiberglass Tanks uses solid-state liquid level sensing technology to detect liquid in the interstitial space of the tank.			
Part Number	0794380-343					
Category	<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329956-001	Type A Sensor Interface Module	Up to 8	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Liquid Alarm	Water detected				
	Fuel Alarm	Fuel detected				
	Sensor Out	Sensor not communicating to ATG/Console				
Specifications						
Operating Principle	Optical sensor and conductivity					
Product Activation Height	Fuel or Water – <0.1" (0.25cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	4.3" (11cm) length, 1.5" (3.8cm) width, 0.5" (1.3cm) thick					
Miscellaneous/Notes	Standard Cable Length: 25' (7.6m), fits 4' to 10' (1.2m to 3m) I.D. fiberglass tanks					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Interstitial Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |

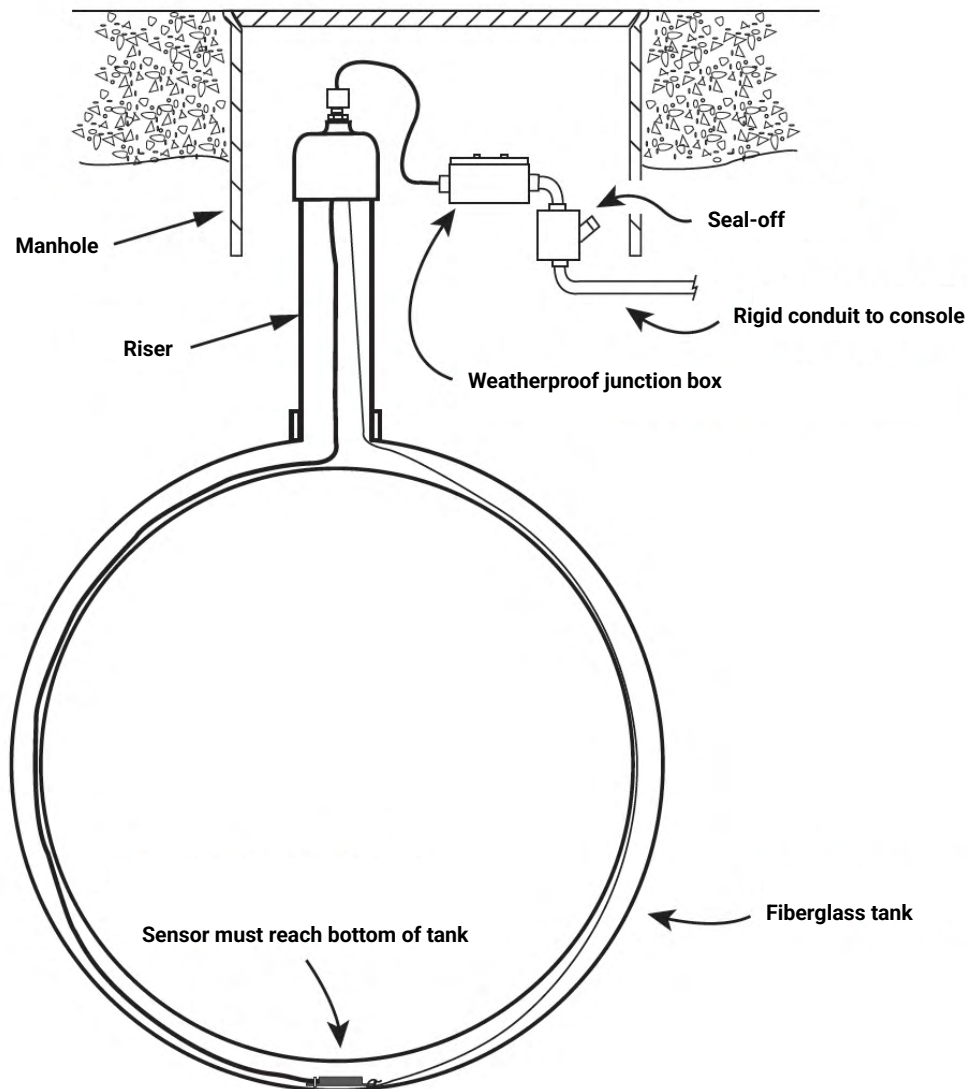
Example Installation




Sensor Description	Interstitial Sensor for Double-Wall Fiberglass Tanks		The Non-Discriminating Interstitial Sensor for Double-Wall Fiber-Glass Tanks detects the presence of liquid in the interstitial space of the tank.				
Part Number	0794390-409						
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive			<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas			<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100			
							
							Sensor Interface Modules
Console Compatibility	Recommended Min. Console Software	Module Part #	Module Description	# of Modules per Console	# of Sensor Inputs per Module	Availability	
TLS4-50PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately	
TLS4-50	4.A or Higher						
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included	
TLS4i (8601 Series)		0330020-751			6		
TLS4B (8601 Series)					8		8
TLS4c (8601 Series)							4
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately	
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately	
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included	
Alarm Notification	Normal	Sensor in Normal State – No liquid detected					
	Liquid Alarm	Liquid detected					
	Sensor Out	Sensor not communicating to ATG/Console					
Specifications							
Operating Principle	Reed Switch / Float						
Product Activation Height	0.28" (0.71cm)						
Operating Temperature	-4°F to +140°F (-20°C to +60°C)						
Dimensions	2.2" (5.6cm) length, 1.3" (3.3cm) width, 0.6" (1.5cm) thick						
Miscellaneous/Notes	Standard Cable Length: 25' (7.6m), fits 4' to 10' (1.2m to 3m) I.D. fiberglass tanks						
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link	Non-Discriminating Interstitial Sensor						
Warranty with System	1 Year Parts & Lab						
Warranty (When purchased separately)	1 Year Parts Only						

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

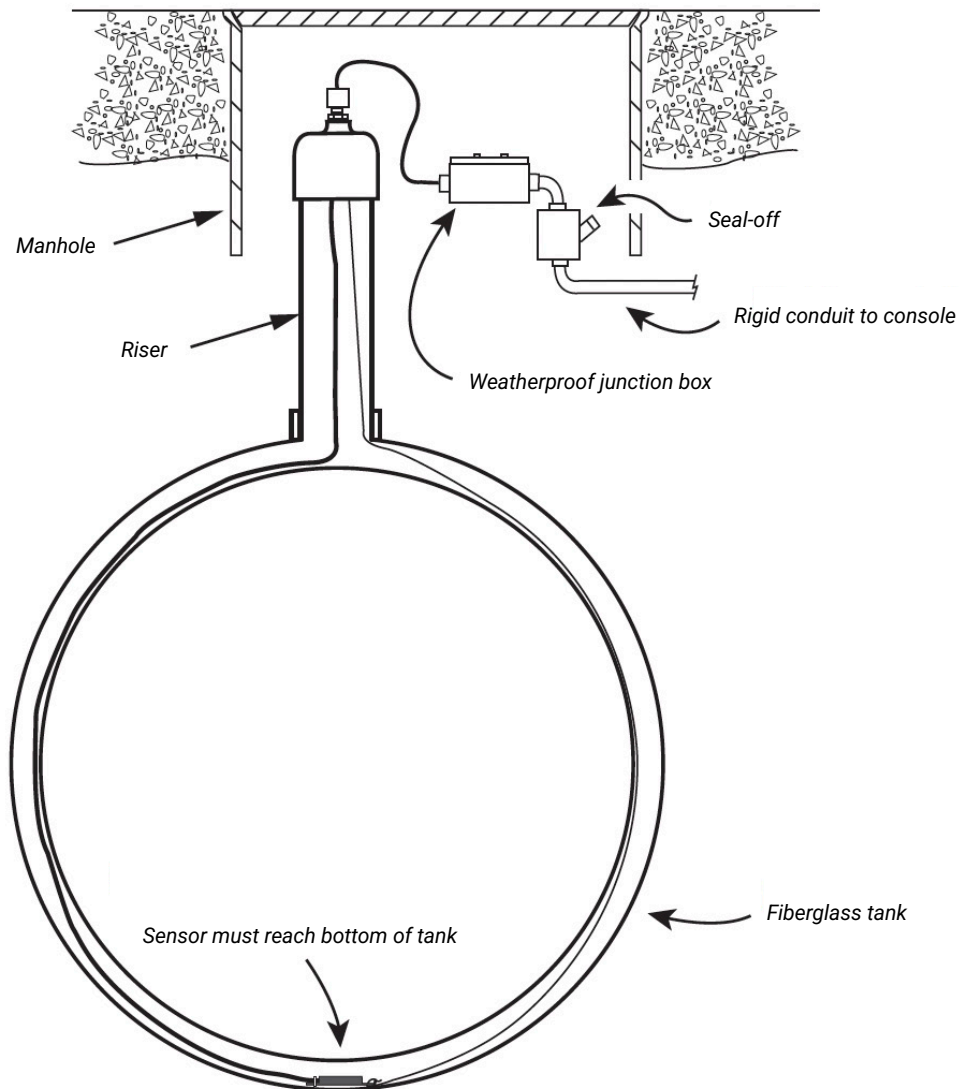
Example Installation



Sensor Description	<i>Solid-State Alternative Ethanol Fluid Interstitial Sensor for Double-Wall Fiberglass Tanks</i>		The Interstitial Sensor for Double-Wall Fiberglass Tanks with high alcohol product uses solidstate liquid level sensing technology to detect liquid in the interstitial space of the tank.					
Part Number	0794380-345							
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic					
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	
Console Compatibility	<i>Recommended Min. Console Software</i>	<i>Sensor Interface Modules</i>						
		<i>Module Part #</i>	<i>Module Description</i>	<i># of Modules per Console</i>	<i># of Sensor Inputs per Module</i>	<i>Availability</i>		
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately		
TLS-450	4.A or Higher							
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included		
TLS4i (8601 Series)								
TLS4B (8601 Series)		0330020-751			6			
TLS4c (8601 Series)								
TLS-350/R/PLUS	124/324 or Higher	0329956-001	Type A Sensor Interface Module	Up to 8	8	Sold Separately		
Alarm Notification	Normal	Sensor in Normal State – No liquid detected						
	Fuel Alarm	Liquid detected						
	Sensor Out	Sensor not communicating to ATG/Console						
Specifications								
Operating Principle	Optical – looking at phase changes in the light beams by causing them to interact or interfere with one another							
Product Activation Height	Fuel or Water <0.2" (0.5cm); E85 <0.4" (1cm)							
Operating Temperature	-40°F to +122°F (-40°C to +50°C)							
Dimensions	4.3" (11cm) length, 1.5" (3.8cm) width, 0.5" (1.3cm) thick							
Miscellaneous/Notes	Standard Cable Length: 25' (7.6m), fits 4' to 10' (1.2m to 3m) I.D. fiberglass tanks							
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles							
Product Link	Solid-State Alternative Ethanol Fluid Interstitial Sensor							
Warranty with System	1 Year Parts & Labor							
Warranty (When purchased separately)	1 Year Parts Only							

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

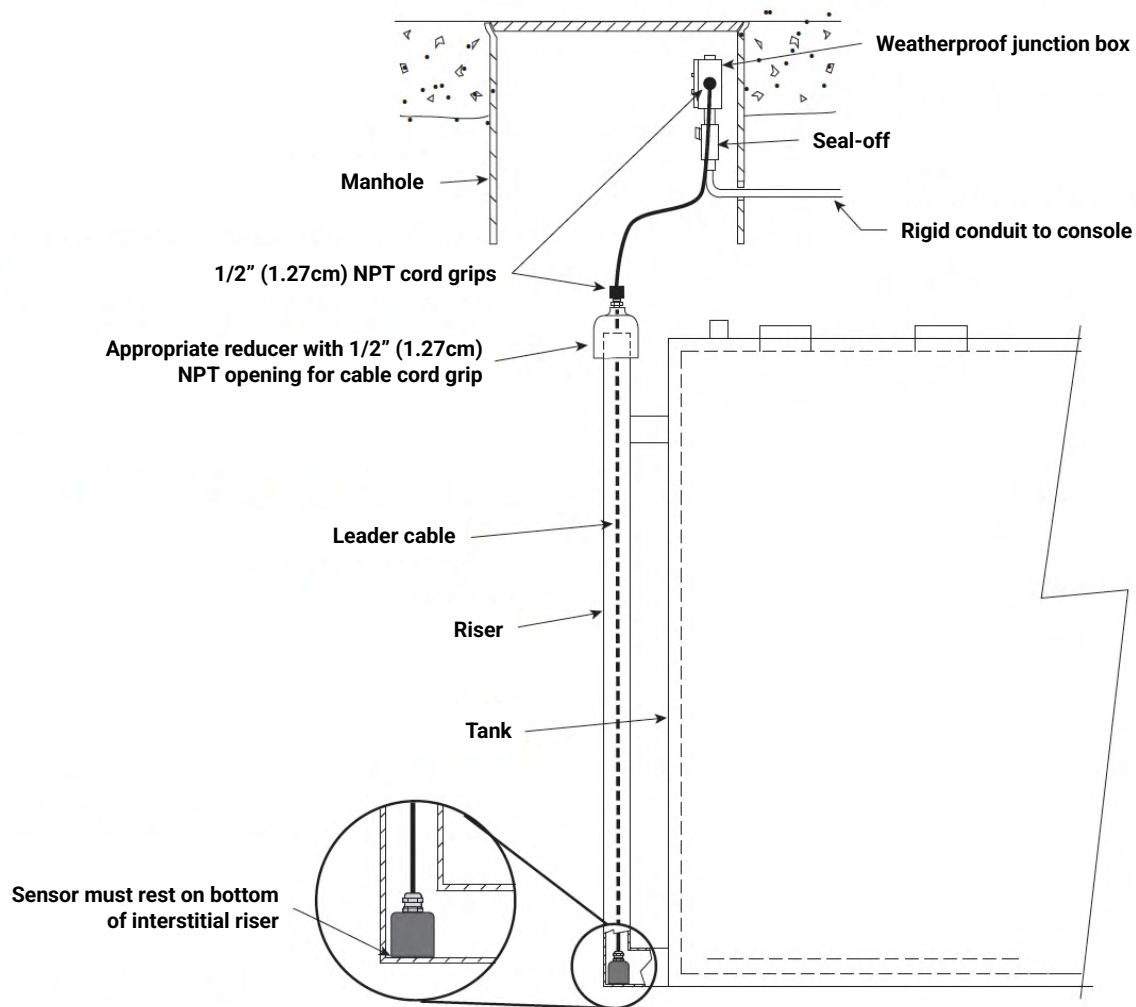
Example Installation




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	0794390-420 (16'/4.88m cable); 0794390-460 (30'/9.14m cable)					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 - TLS-4xx Up to 8 - TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		0330020-751			6	
TLS4B (8601 Series)						
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Liquid detected				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0312020-928	2" (50mm) Interstitial Sensor Riser Cap and Adaptor Kit (Sold Separately)				
Specifications						
Operating Principle	Reed Switch / Float					
Product Activation Height	1.4" (3.56cm)					
Operating Temperature	-4°F to +140°F (-20°C to +60°C)					
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter					
Miscellaneous/Notes	0794380-420 (cable 16' (4.9m)); 0794380-460 (cable 30' (9.1m)); 0312020-928 (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 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|---|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |

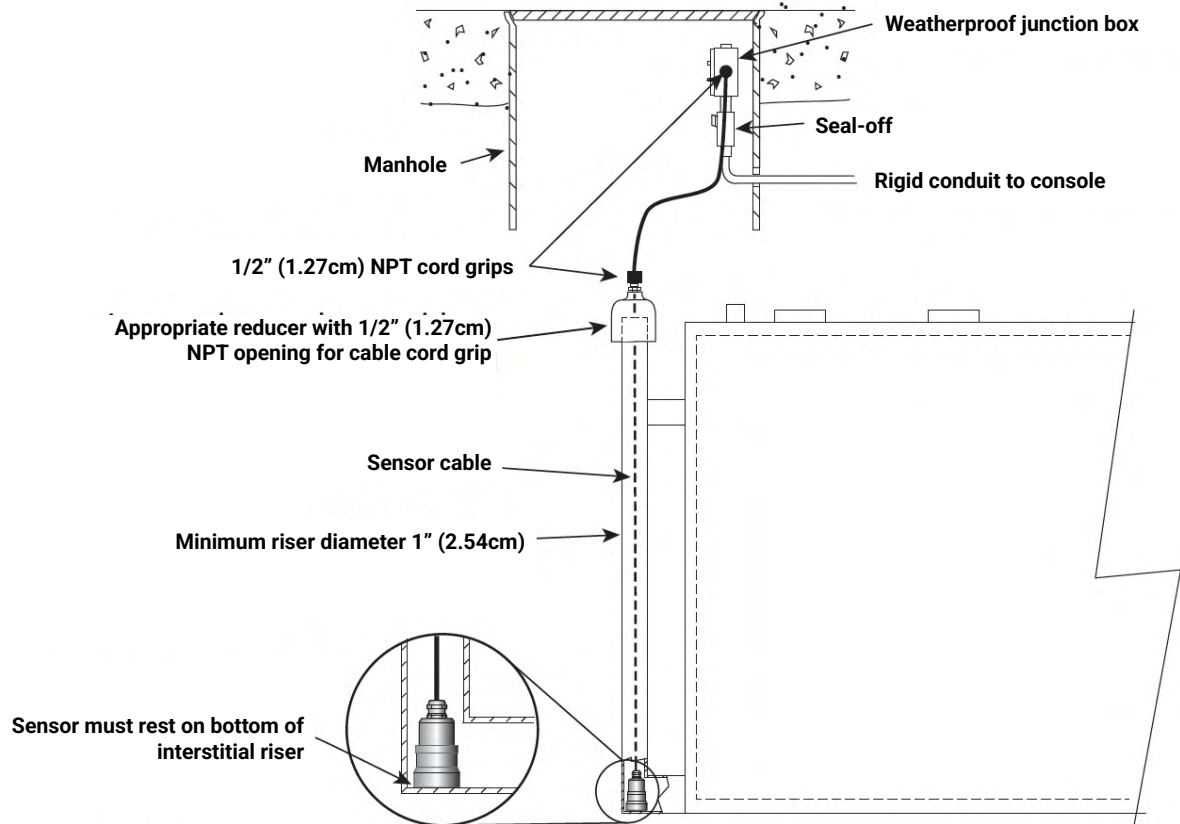
Example Installation



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	0794380-333							
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input checked="" type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic					
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	
Console Compatibility	Recommended Min. Console Software	Module Part #	Module Description	# of Modules per Console			# of Sensor Inputs per Module	Availability
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately		
TLS-450	4.A or Higher							
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included		
TLS4i (8601 Series)		0330020-751			6			
TLS4B (8601 Series)					8		Sold Separately	
TLS4c (8601 Series)								
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately		
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately		
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included		
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	0312020-928	2" (50mm) Interstitial Sensor Riser Cap Kit (Sold Separately)						
Specifications								
Operating Principle	Reed Switch / Float							
Product Activation Height	1.4" (3.6cm)							
Operating Temperature	-4°F to +140°F (-20°C to +60°C)							
Dimensions	3.5" (8.9cm) high, 1.75" (4.4cm) diameter							
Miscellaneous/Notes	Standard Cable Length: 20' (6.09m); 0312020-928 (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 Year Parts & Labor							
Warranty (When purchased separately)	1 Year Parts Only							

Where Used (Typical)

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|---|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input checked="" type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |

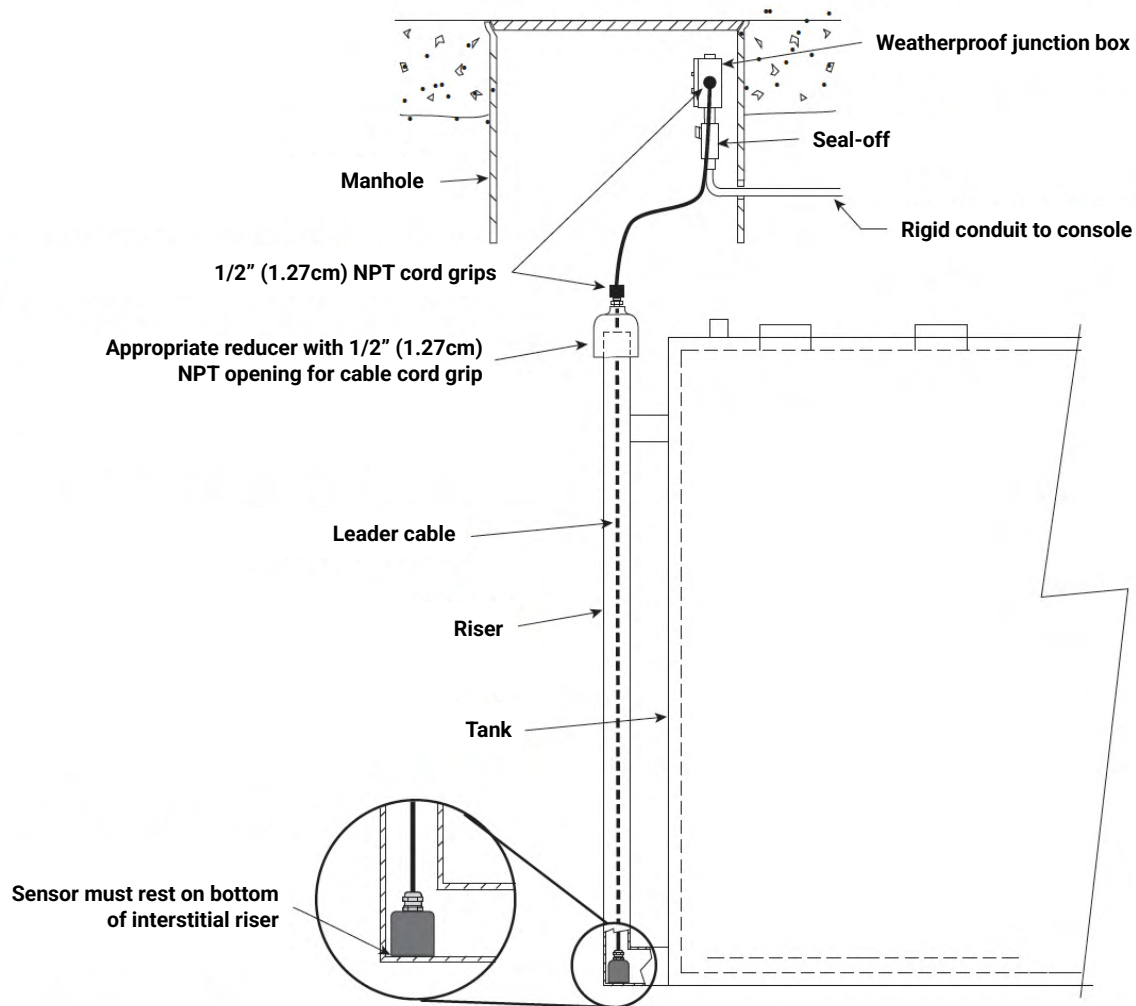
Example Installation




Sensor Description	Interstitial High Alcohol Sensor for Steel Tanks	The Interstitial Sensor for Steel Tanks with high alcohol product detects the presence of liquid between the double walls of the tank.				
Part Number	0794380-430					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	Recommended Min. Console Software	Module Part #				Module Description
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		0330020-751			6	
TLS4B (8601 Series)					8	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Water or Fuel detected				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0312020-928	2" (50mm) Interstitial Sensor Riser Cap Kit (Sold Separately)				
Specifications						
Operating Principle	Reed Switch / Float					
Product Activation Height	1.1" (2.8cm)					
Operating Temperature	-4°F to +140°F (-20°C to +60°C)					
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 15' (4.57m); 0312020-928 2" (50mm) Riser Cap and Adapter Kit)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Interstitial High Alcohol Sensor for Steel Tanks					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

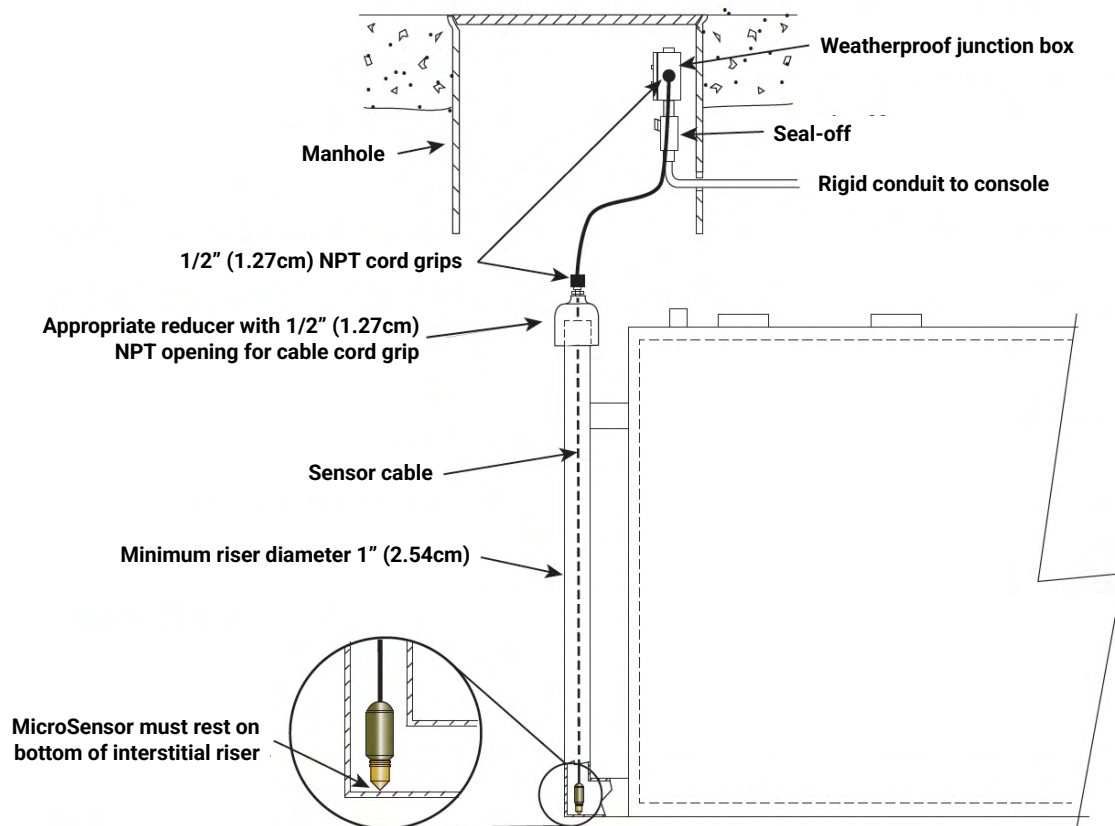
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| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |


Example Installation


Sensor Description	MicroSensor	The non-discriminating small, easy to install solid-state MicroSensor is designed to detect liquid in the interstitial space of a steel tank or a fill riser containment.				
Part Number	0794380-344					
Category	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	Recommended Min. Console Software	Module Part #				Module Description
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		0330020-751			6	
TLS4B (8601 Series)						
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329956-001	Type A Interface Module	Up to 8	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – No liquid detected				
	Fuel Alarm	Liquid detected at a minimum of 1" (2.54cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
Installation Kit	0312020-928	2" (50mm) Interstitial Sensor Riser Cap and Adapter Kit (Sold Separately)				
Specifications						
Operating Principle	Optical					
Product Activation Height	1" (2.54cm)					
Operating Temperature	-40°F to +122°F (-40°C to +50°C)					
Dimensions	Diameter: 0.63" (16mm), Length: 2" (51mm)					
Miscellaneous/Notes	Standard Cable Length: 25' (7.6m); 0312020-928 (2" (50mm) Riser Cap and Adapter Kit)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	MicroSensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

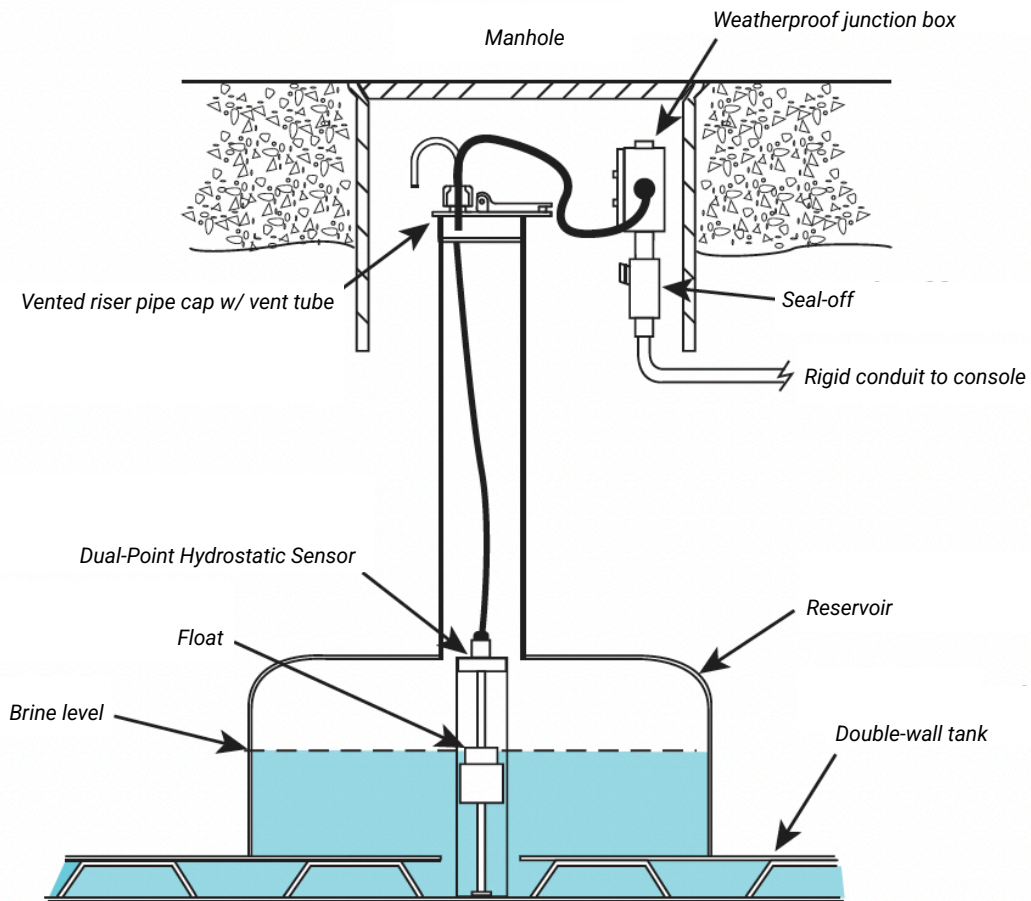
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|---|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |

Example Installation


<i>Sensor Description</i>	<i>Dual-Point Hydrostatic Reservoir Sensor (Brine-Filled Double-Wall Tank Sensor)</i>		The Hydrostatic Reservoir Sensor accurately detects fluid level change in the reservoir and interstice of a double wall storage tank. The Dual-Point version is ideal for high groundwater areas, and can differentiate between a high level alarm condition and a low level alarm condition. If an inner-wall leak occurs, the brine seeps into the tank triggering a low level alarm. If an outer wall leak occurs, fluid seeps into the interstice triggering a high level alarm.			
<i>Part Number</i>	0794380-303					
<i>Category</i>	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input checked="" type="checkbox"/> Hydrostatic			
<i>Fuel Compatibility</i>	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)			
<i>Console Compatibility</i>	<i>Recommended Min. Console Software</i>	<i>Sensor Interface Modules</i>				
		<i>Module Part #</i>	<i>Module Description</i>	<i># of Modules per Console</i>	<i># of Sensor Inputs per Module</i>	<i>Availability</i>
TLS-450PLUS (8600 Series)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		0330020-751			6	
TLS4B (8601 Series)						
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
<i>Alarm Notification</i>	Normal	Float is in the Center position (correct amount of brine in reservoir)				
	Low Liquid	Brine drops below 1.2" (3cm)				
	High Liquid	Brine rises above 13.13" (33.4cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
<i>Specifications</i>						
<i>Operating Principle</i>	Reed Switch / Float					
<i>Product Activation Height</i>	Low: 1.2" (3cm), High: 13.13" (33.4cm)					
<i>Operating Temp</i>	-13°F to +122°F (-25°C to +50°C)					
<i>Dimensions</i>	17.3" (43.9cm) high, 2.5" (6.4cm) diameter					
<i>Miscellaneous/Notes</i>	<ul style="list-style-type: none"> • Standard Cable Length: 12' (3.65m) • Vented riser cap assembly included • Reservoir solutions: Up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl. 					

Specifications (Continued)	
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles
Product Link	Dual-Point Hydrostatic Reservoir Sensor
Warranty with System	1 Year Parts & Labor
Warranty (When purchased separately)	1 Year Parts Only
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank

Example Installation

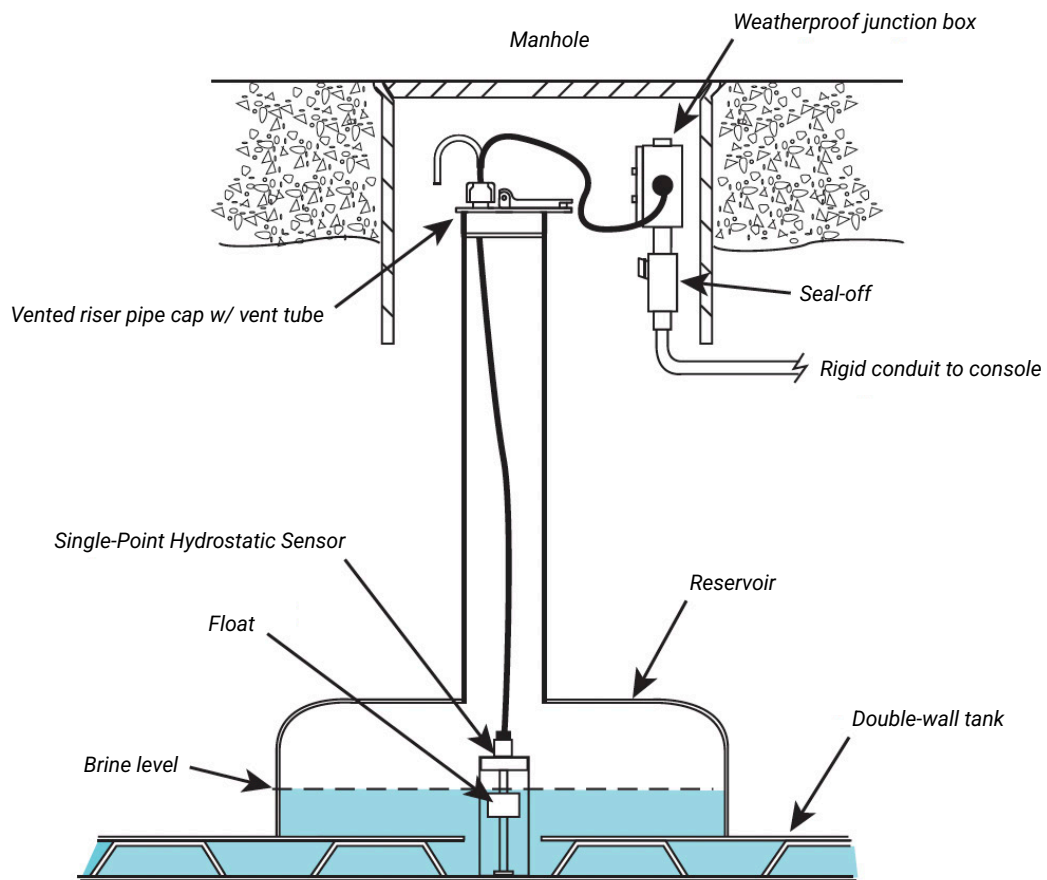


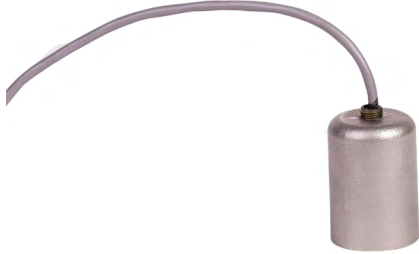
Sensor Description	Single-Point Hydrostatic Reservoir Sensor (Brine-Filled Double-Wall Tank Sensor)		The Hydrostatic Reservoir Sensor accurately detects fluid level change in the reservoir and interstice of a double-wall storage tank. The Single-Point version can be used in low groundwater locations. If an inner-wall leak occurs, the brine seeps into the tank triggering a fuel alarm. If the outer wall leaks, the brine seeps out of the tank interstice triggering a fuel alarm.			
Part Number	0794380-301					
Category	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input checked="" type="checkbox"/> Hydrostatic			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas		<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)			
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329958-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		0329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		0330230-001	4 Probe / 8 Sensor Interface Module		8	Included
Alarm Notification	Normal	Float is in the UP position (correct amount of brine in reservoir)				
	Fuel Alarm	Brine level below 1.74" (4.4cm)				
	Sensor Out	Sensor not communicating to ATG/Console				
Specifications						
Operating Principle	Reed Switch / Float					
Product Activation Height	1.75" (4.4cm)					
Operating Temperature	-13°F to +135°F (-25°C to +57°C)					
Dimensions	6" (15cm) high, 2.5" (6.4cm) diameter					
Miscellaneous/Notes	<ul style="list-style-type: none"> • Standard Cable Length: 12' (3.65m) • Vented riser cap assembly included • Reservoir solutions: Up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl 					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Single-Point Hydrostatic Reservoir Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation

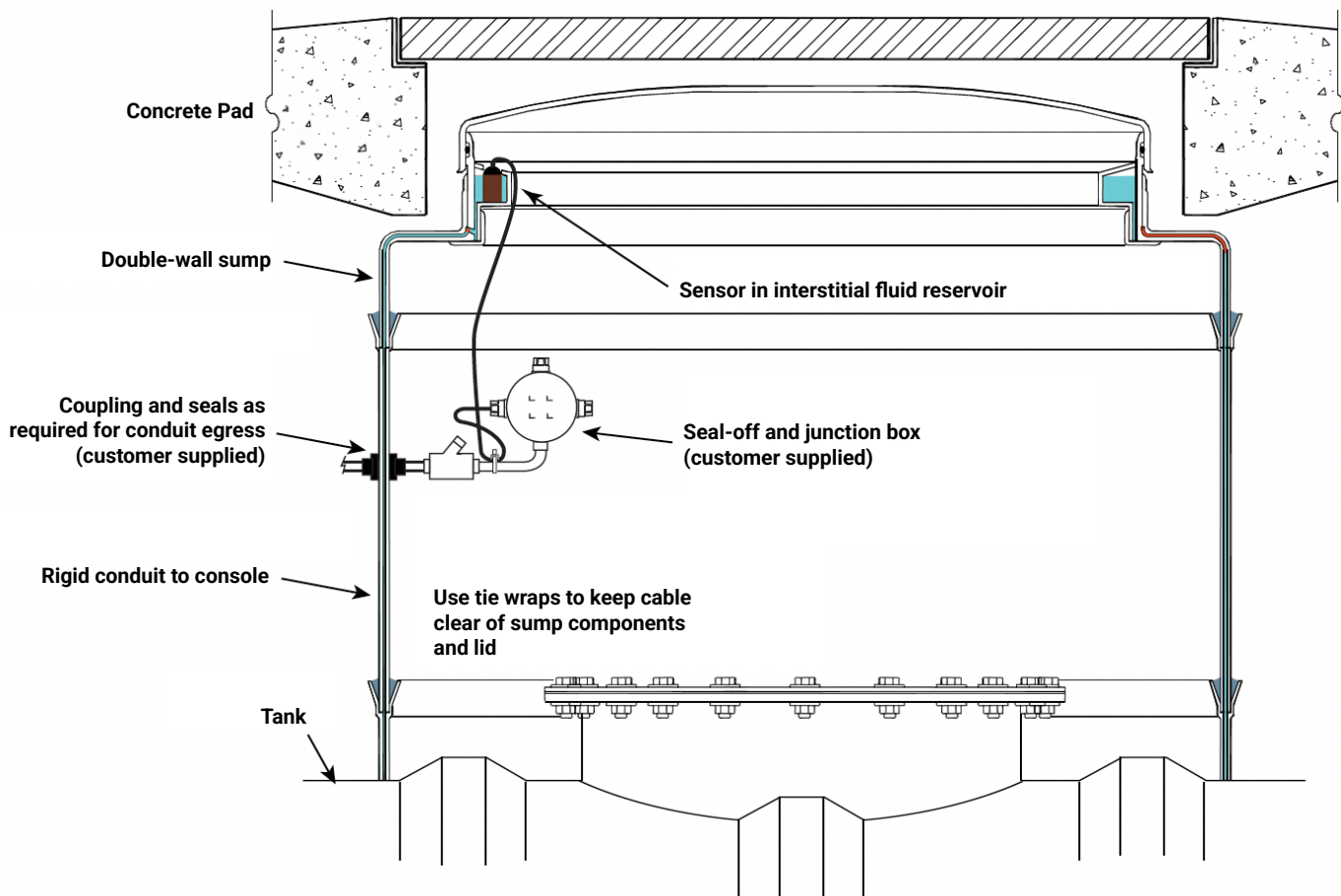



Sensor Description	Single-Point Mini-Hydrostatic Sensor for Double-Wall Sumps	The Single-Point Mini-Hydrostatic Sensor accurately detects fluid level change in the interstice reservoir of a double-wall sump. If a leak occurs in the sump interstice, the brine seeps out of the reservoir triggering a low level alarm.					
Part Number	0794380-304						
Category	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive	<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input checked="" type="checkbox"/> Hydrostatic					
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 (All blends up to B100)				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	16	Sold Separately	
TLS-450	4.A or Higher						
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included	
TLS4i (8601 Series)		0330020-751			6		
TLS4B (8601 Series)			124/324 or Higher	0329958-001	Interstitial Sensor Interface Module	Up to 8	8
TLS4c (8601 Series)		0329356-003		4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-350/R/PLUS	0330230-001	4 Probe / 8 Sensor Interface Module	8	Included			
TLS-350J							
TLS-300i							
Alarm Notification	Normal	Float is in UP position (correct amount of brine in reservoir)					
	Fuel Alarm	Float is in DOWN position (low brine level in reservoir)					
	Sensor Out	Sensor not communicating to ATG/Console					
Specifications							
Operating Principle	Reed Switch / Float						
Product Activation Height	0.79" (2cm)						
Operating Temperature	-13°F to +122°F (-25°C to +50°C)						
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter						
Miscellaneous/Notes	Standard Cable Length: 8' (2.43m); up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl.						
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link	Single-Point Mini-Hydrostatic Sensor						
Warranty with System	1 Year Parts & Labor						
Warranty (When purchased separately)	1 Year Parts Only						

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

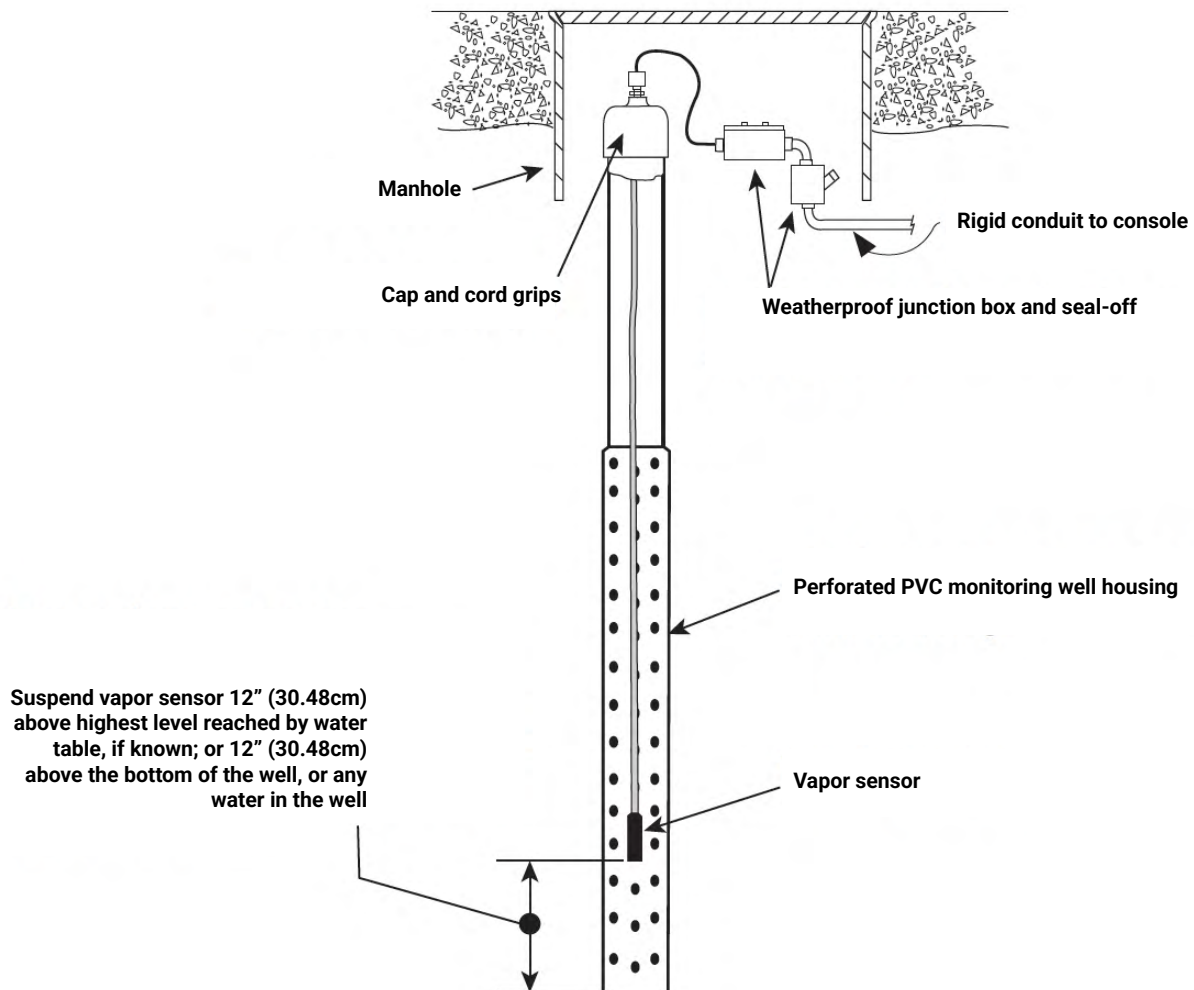
Example Installation




Sensor Description	Vapor Sensor	The Vapor Monitoring Well Sensor detects hydrocarbon vapor exceeding the programmed threshold limit in the monitoring well.				
Part Number	0794390-700					
Category	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Hydrostatic	<input checked="" type="checkbox"/> Vapor <input type="checkbox"/> Static Testing <input type="checkbox"/> Groundwater <input type="checkbox"/> Oil/Water Separator				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100				<input type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input type="checkbox"/> Waste Oil <input type="checkbox"/> Motor Oil
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	8	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			4	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329357-001	Vapor Sensor Interface Module	Up to 8	5	Sold Separately
Alarm Notification	Short Alarm	A short has occurred in the sensor wiring or in the sensor				
	Water Alarm	The vapor sensor is immersed in water and is incapable of detecting fuel vapors				
	Fuel Alarm	Fuel vapors are present in the area being monitored by the sensor				
	Sensor Out Alarm	Sensor setup was performed incorrectly; it is disconnected, or, it is not functioning properly				
Installation Kit	0312020-939	4" (100mm) Vapor Sensor Riser Cap (Sold Separately)				
Specifications						
Operating Principle	Adsistor					
Product Activation Height	Gasoline Vapor >500 ppm					
Operating Temperature	-4°F to +140°F (-20°C to +60°C)					
Dimensions (Sensor)	4.9" (12.4cm) long, 1.1" (2.8cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 18' (5.5m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Vapor Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input checked="" type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

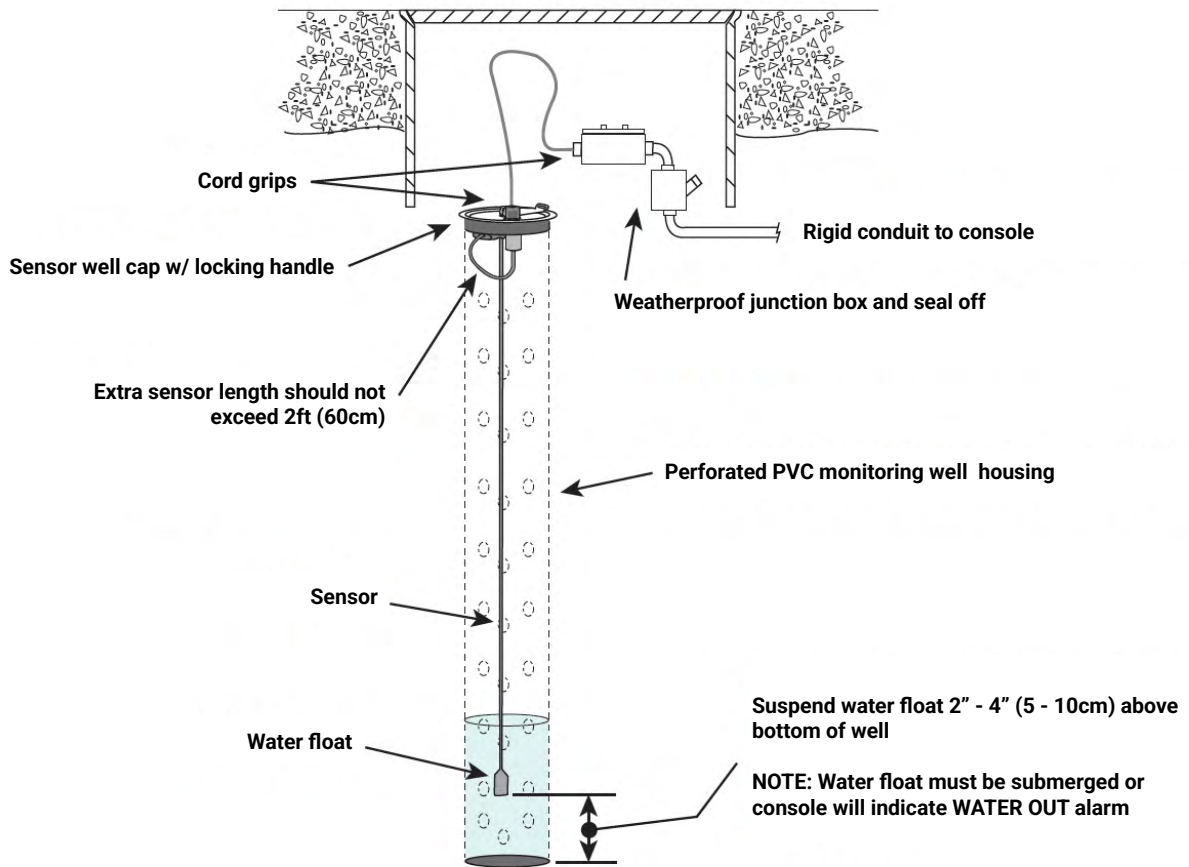
Example Installation



Sensor Description	Groundwater Sensor	The Groundwater Sensor detects free hydrocarbons in the C5 to C16 range on the water table in up to 20ft (6.1m) deep monitoring wells.				
Part Number	0794380-621 for 7-10ft (2-3m) wells; 0794380-622 for 10-5ft (3-4.5m) wells; 0794380-624 for 15-20 ft (4.5-6m) wells					
Category	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing	<input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vapor <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Oil/Water Separator				
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100				<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil
Console Compatibility	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)	6.A or Higher	0332812-001	Universal Sensor Module (USM)	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	8	Sold Separately
TLS-450	4.A or Higher					
TLS4 (8601 Series)	6.A or Higher	0330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)		0330020-751			4	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	0329399-001	Groundwater Sensor Interface Module	Up to 8	5	Sold Separately
Alarm Notification	Normal	Sensor in water – no hydrocarbons detected				
	Water Out	Sensor not in water – well dry				
	Fuel Alarm	Permeable material saturated with fuel				
	Sensor Out	Sensor not communicating to ATG/Console				
Specifications						
Operating Principle	Electrical conductivity					
Product Activation Height	0.02" (0.5mm)					
Operating Temperature	+32°F to +104°F (0°C to +40°C)					
Dimensions (Water Float)	4.9" (12.4cm) long, 1.1" (2.8cm) diameter					
Miscellaneous/Notes	Standard Cable Length: 64" (162.6cm); Locking cap included					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Groundwater Sensor					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

Where Used (Typical)

- | | |
|--|---|
| <input type="checkbox"/> Dispenser Pan | <input type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input checked="" type="checkbox"/> Monitoring Well |
| <input type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input type="checkbox"/> Convault Tank | |

Example Installation



System Description	Secondary Containment Vacuum Sensor (SCVS)	This type of sensor monitors interstitial containment areas such as those in double-walled tanks, piping, and sumps.				
Part Number	0857280-xxx					
Category	<input checked="" type="checkbox"/> Interstitial/Vacuum <input type="checkbox"/> Level Sensing <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Static Testing <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Hydrostatic					
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100					
Console Compatibility	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) ³	9.B or Higher	0332812-006	Universal Sensor Module (USM) W/ Attached ATM Pressure Sensor	Up to 4 – TLS-4xx Up to 8 – TLS-4xx w/ opt. TLS-XB	8	Sold Separately
		0333972-029	SEM w/Secondary Containment Vac Monitoring	1	N/A	
		0332813-001	Input/Output Module (IOM) ^{1,2}	Up to 3	N/A	
TLS-350, TLS-350R w/ BIR and TLS-350PLUS Enhanced ^{2,3}	24C or Higher	0332250-001	7 Input Smart Sensor/ Pressure Module	1 for up to 7 Vac Sensors	7	Sold Separately
		0329356-004	8 Input Smart Sensor/ Pressure Module	1 for each additional 8 Vac Sensors	8	Sold Separately
Alarm Notification	Normal	Sensor in Normal State – Vacuum is at minimum level or greater, no liquid detected				
	No Vacuum	Leak in the interstitial space has caused the system to lose vacuum				
	Liquid Alarm	The float sensor has detected liquid in the interstitial space				
Specifications						
Operating Principle	Vacuum sensor with liquid float switch					
Operating Temperature	-40° to +140°F (-40°C to +60°C)					
Third Party Evaluation Link	TLS-3XX/TLS-450 Series Consoles					
Product Link	Secondary Containment Vacuum Sensor (SCVS)					
Warranty with System	1 Year Parts & Labor					
Warranty (When purchased separately)	1 Year Parts Only					

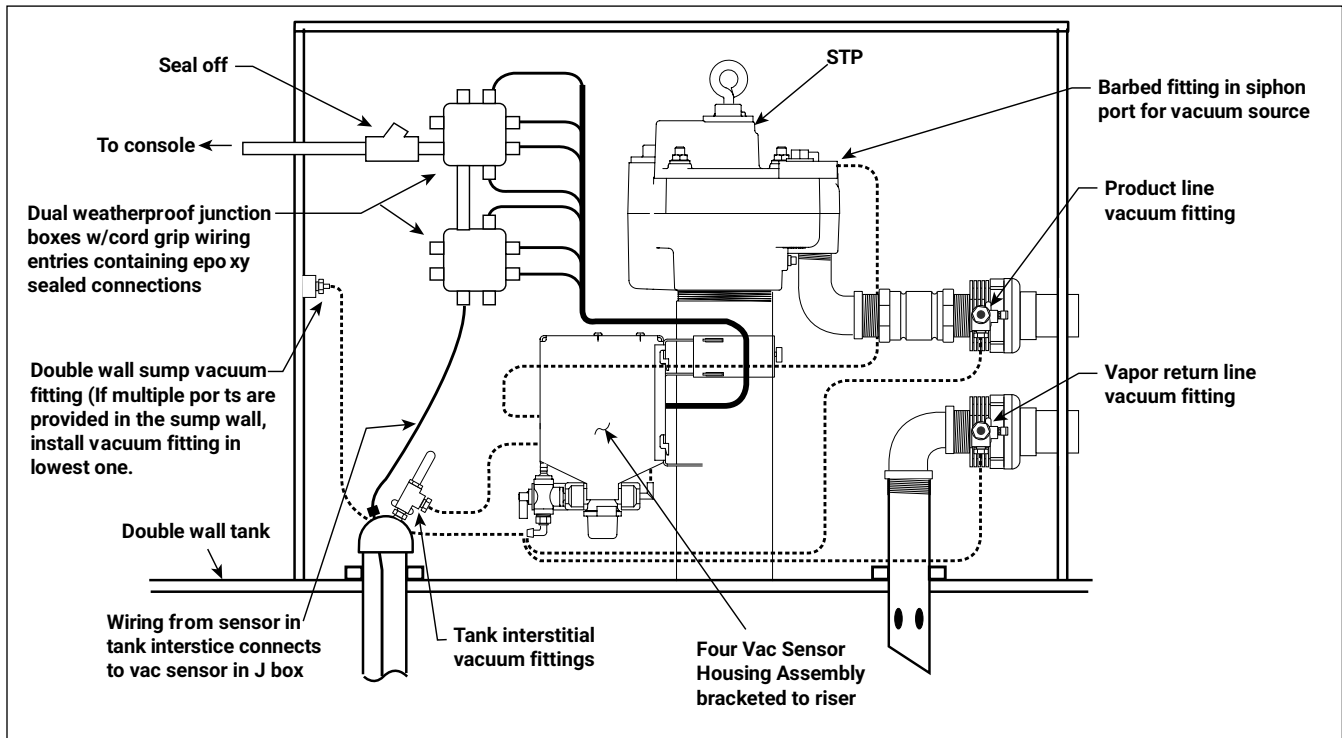
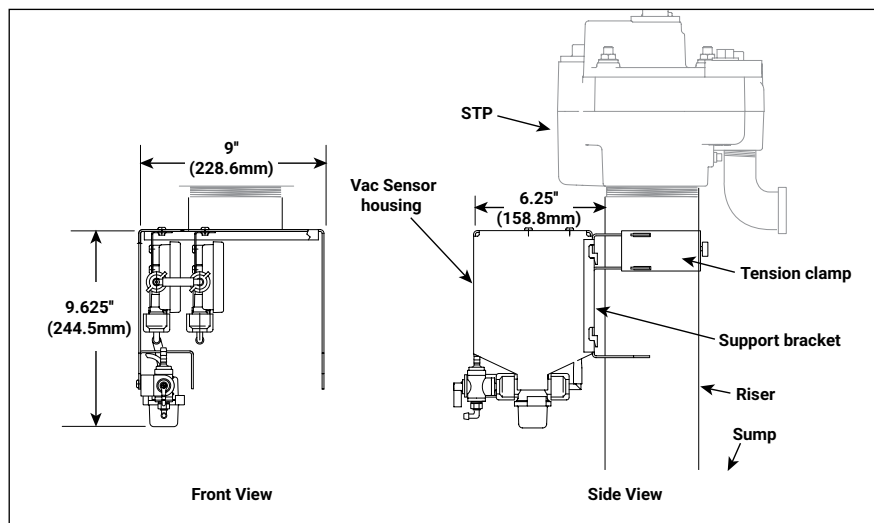
¹ Required if the site does not have D/PLLD

² Additional hardware may be required - requires ECPU2 or ECPU w/NVMEM1 board

³ Console is required to have pump sense (or sensor) and control hardware

Where Used (Typical)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Dispenser Pan | <input checked="" type="checkbox"/> Annular Space |
| <input type="checkbox"/> Spill Containment | <input type="checkbox"/> Monitoring Well |
| <input checked="" type="checkbox"/> STP Sump | <input type="checkbox"/> Oil/Water Separator Tank |
| <input checked="" type="checkbox"/> Convault Tank | |

Example Diagrams

Installation Example

Overall Housing Dimensions

Appendix A - Sensor Type Programming Table

The table below is helpful when selecting Sensor Type (for TLS3 Series consoles) or Sensor Model (for TLS4/8601 and TLS-450 and TLS-450PLUS consoles) during sensor setup.

Sensor Type Programming Table for TLS Consoles

Sensor	Part Number	Sensor Category (Location)	TLS3 Series Sensor Type	TLS4/8601 Series TLS-450 and TLS-450PLUS Sensor Model
Discriminating Dispenser Pan and Sump - Standard	0794380-322 (DPS), 0794380-352 (CSS)	Sump/Pan	Liquid Sensor Setup: Sensor Type - Dual Float Discriminating	Device Setup Liquid Sensor: Model - Dual Float Discriminating
Solid-State Discr. Dispenser Pan and Containment Sump - Optical	0794380-320 (DPO), 0794380-350 (CSO),	Sump/Pan	3-Wire C.L. Setup: Sensor Mode - Standard	Device Setup Type B Sensor: Model - Ultra/Z-1 (Standard)
Mag Sump	087080-xxx	Sump/Pan	Smart Sensor Setup: Sensor Category- Mag Sensor	Device Setup MAG Sensor
Solid-State Dispenser Pan and Containment Sump	0794380-321 (DP); 0794380-351 (CS)	Sump/Pan	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Piping Sump-12' (3.66m)	0794380-208	Sump/Pan	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Position Sensitive High Alcohol Compatible!	0794380-323 (12' Cable)	Sump/Pan	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Solid-State Discr. Interstitial for Double-Wall Fiberglass Tanks with 25' (7.62m) Cable	0794380-343	Annular Space	2-Wire C.L. Setup: Sensor Type - Discrim Interstitial	Device Setup Type A Sensor: Model - Discrim. Interstitial
Interstitial for Double-Wall Fiberglass Tanks	0794380-409	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Solid-State Interstitial High Alcohol for Double-Wall Fiberglass Tanks High Alcohol Compatible!	0794380-345	Annular Space	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Interstitial for Steel Tanks	0794380-4x0	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Position Sensitive Interstitial for Steel Tanks with 20' (6.1m) Cable High Alcohol Compatible!	0794380-333	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Interstitial High Alcohol for Steel Tanks with 15' (4.57m) Cable High Alcohol Compatible!	0794380-430	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
MicroSensor High Alcohol Compatible!	0794380-344	Annular Space	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Hydrostatic Reservoir	0794380-301 (1 float)	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
	0794380-303 (1 float)	Annular Space	Liquid Sensor Setup: Sensor Type - Dual Point Hydrostatic	Device Setup Liquid Sensor: Model - Dual-Point Hydrostatic
Single-Point Mini-Hydrostatic for Double-Wall Sumps	0794380-304	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Vapor Monitoring Well	0794390-700	Monitor Well	Vapor Sensor Setup	Device Setup Vapor Sensor
Groundwater	0794380-62x	Monitor Well	Groundwater Sensor Setup	Device Setup Groundwater Sensor
Oil Water Separator	0794690-xxx	Oil Water Separator Tank	Liquid Sensor Setup: Sensor Type - Dual Float Discriminating	Device Setup Liquid Sensor: Model - Dual Float Discriminating
Secondary Containment Vacuum Sensor	0857280-xxx	Annular Space	Smart Sensor Setup: Category: Vac Sensor	Device Setup Vac Sensor

Appendix B - Direct Burial Cable

The Veeder-Root direct burial cable system provides everything needed for an alternative wiring installation method for use with our probes and sensors. Installation of buried cable should only be done in those locations where existing conduit is not available, and where local codes permit the use of buried cable instead of conduit, and epoxy splices instead of junction boxes. Before considering buried cable runs, check with the local authority having jurisdiction to be sure that direct burial practices are acceptable at your location.

If you are unfamiliar with direct burial techniques, you should consider either of two Veeder-Root kits:

- Direct Burial Cable Site Preparation Kit (P/N 0848100-500) which contains the Direct Burial Installation Manual, a splice kit installation manual and the 890-SL joint sealant instruction guide.
- Direct Burial Cable Demonstration Kit (P/N 0848100-502) which contains one splice kit with installation instructions, a 890-SL joint sealant instruction guide, a 6" (15.24cm) piece of 2 conductor direct burial wire and filler rod.

After reviewing the contents of these kits, and after verifying local code requirements, you should be much more informed as to the applicability of this wiring method for your site.

Direct Burial Cable Specifications

2-CONDUCTOR, SHIELDED CABLE		3-CONDUCTOR, SHIELDED CABLE	
Item	Description	Item	Description
Primaries		Primaries	
Conductor	#18 AWG (19/30) tinned copper	Conductor	#18 AWG (19/30) tinned copper
Insulation Type	Fluoropolymer	Insulation Type	Fluoropolymer
Primary O.D.	0.063" (1.6mm) nominal	Primary O.D.	0.063" (1.6mm) nominal
Drain	#20 AWG (7/28) tinned copper, located under the tape	Drain	#20 AWG (7/28) tinned copper, located under the tape
Jacket		Jacket	
Insulation Type	Fluoropolymer	Insulation Type	Fluoropolymer
Final O.D.	0.161" (4.1mm)	Final O.D.	0.171" (4.34mm)
Color	Red tint	Color	Blue tint
UL Temp Rating	257°F (125°C)	UL Temp Rating	392°F (200°C)

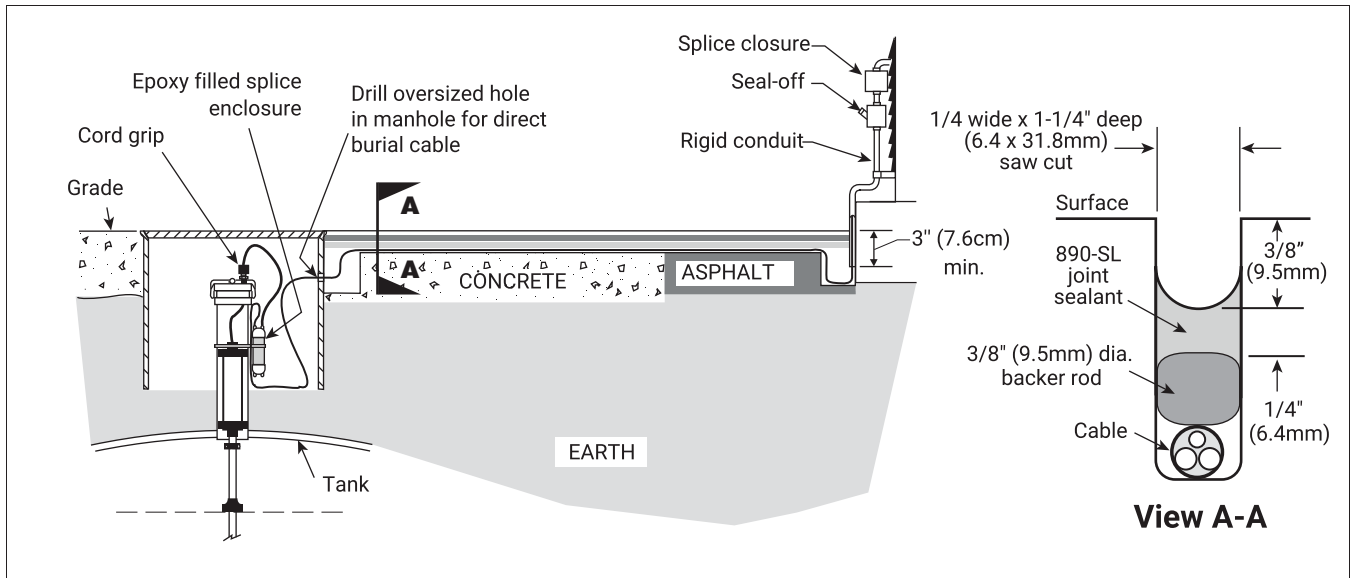
Direct Burial Cable Components

Order equal lengths of filler rod and either type cable. Refer to Veeder-Root manual 576013-858 to estimate length.

- Filler rod - P/N 0848100-1xx, lengths of 100' to 2000' (30.5 to 610m), in increments of 100' (30.5m)
- Filler rod installation tool - P/N 0848100-904, adjusts to 1/8" (0.32cm), 1/4" (6.4mm), 3/8" (9.5mm), or 1/2" (12.7mm) saw cuts
- 2-conductor cable - P/N 0848100-2xx, lengths of 100' to 2000' (30.5 to 610m), in increments of 100' (30.5m)
- 3-conductor cable - P/N 0848100-3xx, lengths of 100' to 2000', in increments of 100' (30.5m)
- 29oz. cartridge of 890-SL Sealant - P/N 0848100-800, 60 linear feet (18m) in 1/4" (6.4mm) wide cut
- 4.5 gallon (17 liter) can of 890-SL Sealant - P/N 0848100-805, 1200 linear feet (365m) in 1/4" (6.4mm) wide cut

- Sealant Cartridge Gun, Manual Driven - P/N 0848100-901 (for use with P/N 0848100-800 cartridge)
- Sealant Bulk Gun, Air Driven - P/N 0848100-903 (for use with P/N 0848100-805 4.5 gallon (17 liter) can)

Direct Burial Cable Installation Example





For technical support, sales or
other assistance, please visit:
www.veeder.com