

## SERIES SBLT2 & SBLTX | MERCOID SUBMERSIBLE LEVEL TRANSMITTERS

### FEATURES/BENEFITS

- Slim design for tight applications with bullet nose, which protects the diaphragm from damage
- Incorporates lightning and surge protection utilizing dual arrestor technology, grounded to case, eliminating both power supply surges and lightning ground strike transients (surge protection is not guaranteed and is not covered by warranty) on SBLT2 models
- Maintenance free filter eliminates particulate or water droplets from entering and damaging the transducer
- UL approved intrinsically safe on SBLTX models for use in hazardous locations when used with proper barrier
- Excellent chemical compatibility for wide application use
- NPT connection allows the unit to be rigidly installed in a pipe/conduit, or the addition of a A-625 hanging loop for attaching a chain for pulling out of the installation

### APPLICATIONS

- Well monitoring
- Ground water monitoring
- Environmental remediation
- Surface water monitoring
- Down hole
- Water tanks

### DESCRIPTION

The **SERIES SBLT2 & SBLTX** Submersible Level Transmitters are manufactured for years of trouble free service. These series measure the height of liquid above the position in the tank referenced to atmospheric pressure. The transmitter consists of a piezoresistive sensing element, encased in a 316 SS housing.



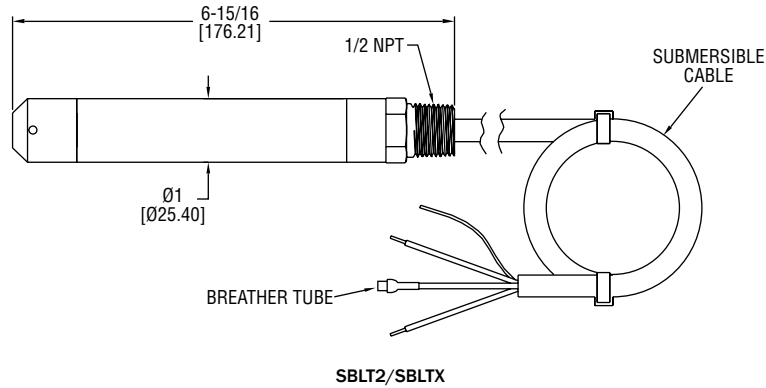
### SPECIFICATIONS

<b>Service</b>	Compatible liquids.
<b>Wetted Materials</b>	316 SS, 316L SS, epoxy; Cable: Polyurethane or ETFE; Bullet nose: PVC.
<b>Accuracy</b>	±0.25% FS*.
<b>Temperature Limit</b>	SBLT2: 0 to 150 °F (-18 to 66 °C); SBLTX: 0 to 176 °F (-18 to 80 °C).
<b>Compensated Temperature Range</b>	SBLT2: 0 to 140 °F (-18 to 60 °C); SBLTX: 0 to 176 °F (-18 to 80 °C).
<b>Thermal Effect</b>	±0.02% FS/°F.
<b>Pressure Limit</b>	2X FS.
<b>Power Requirement</b>	SBLT2: 13 to 30 VDC; SBLTX: 10 to 28 VDC.
<b>Output Signal</b>	4 to 20 mA DC, 2-wire.
<b>Response Time</b>	50 ms.
<b>Max. Loop Resistance</b>	900 Ω at 30 VDC.
<b>Electrical Connection</b>	Wire pigtail.
<b>Mounting Orientation</b>	Suspended in tank below level being measured.
<b>Electrical Protection</b>	SBLT2: Lightning and surge protection; SBLTX: None.
<b>Weight</b>	2.2 lb (1.0 kg).
<b>Agency Approvals</b>	SBLT2: CE; SBLTX: CE, cULus intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III Div. 1. (according to control drawing 01-700797-00)**.
*Configured ranges below 5 psi (11.54 ft w.c.) (3.52 m w.c.) ±1% FS accuracy	
**Up to 196 ft (59.5 m) for ETFE cable; Up to 333 ft (101.5 m) for polyurethane cable	





## DIMENSIONS



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

<b>SBLT2</b>	<b>-5</b>	<b>-40</b>	<b>-ETFE</b>	
<p><b>SERIES</b></p> <p><b>SBLT2</b> - Submersible level transmitter  <b>SBLTX</b> - Submersible level transmitter (intrinsically safe)</p>				<p><b>CABLE TYPE</b></p> <p><b>BLANK</b> - Polyurethane  <b>-ETFE</b> - ETFE</p>
<p><b>*RANGE psi (ft w.c.) [m w.c.]</b></p> <p><b>-5</b> - 5 (11.54) [3.52]  <b>-10</b> - 10 (23.09) [7.04]  <b>-15</b> - 15 (34.63) [10.56]  <b>-20</b> - 20 (46.18) [14.08]  <b>-3.5M</b> - 4.97 (11.48) [3.5]  <b>-5M</b> - 7.11 (16.40) [5]  <b>-10M</b> - 14.21 (32.81) [10]</p>				<p><b>**CABLE LENGTH ft (m)</b></p> <p><b>-40</b> - 40 (12.2)  <b>-60</b> - 60 (18.3)  <b>-5M</b> - 16.40 (5)  <b>-10M</b> - 32.81 (10)  <b>-18M</b> - 59.06 (18)</p> <p>**Configured cable lengths available from 10 to 2000 ft (3 to 610 m)</p>
<p>*Additional pressure ranges available, consult factory</p>				

## ACCESSORIES

Model	Description
<b>MTL5041</b>	Intrinsically safe galvanic isolator
<b>MTL7706</b>	Intrinsically safe zener barrier
<b>A-297</b>	Dessicant filter for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation
<b>A-625</b>	316 SS cable hanger for attaching chain for easy pulling out of application

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.

