

## TITANIUM SUBMERSIBLE LEVEL TRANSMITTER

### MODEL BR313L-NI

#### FEATURES:

- Up to 0.10% FSO accuracy
- Slim 1.0" (2.54 cm) diameter titanium housing
- Rugged, welded, leak-proof construction
- 4-20 mA output
- 0 to 20" WC thru 0 to 300 PSI (692 FTWC)

#### APPLICATIONS:

- Weirs, wells, pond, reservoir, and dam level
- Rig ballast control
- Reservoirs / dams
- Groundwater monitoring
- Deep well and borehole

#### PRODUCT OVERVIEW:

Model BR313L-NI from Blue Ribbon Corporation utilizes an all-titanium design to provide long-term stability and continued performance under harsh conditions, including corrosive and hazardous applications. The slim design and high media resistance perform exceptionally well in downhole applications that often have tight space constraints.

#### FIELD OPTIONS:

- 1.0" (2.54 cm) and 0.69" (1.74 cm) housing diameters
- Remote zero-span adjustments
- Lightning suppression
- Additional lengths, Tefzel® or Hytrel jacketed cable



Model BR313L-NI  
Titanium Submersible Level Transmitter

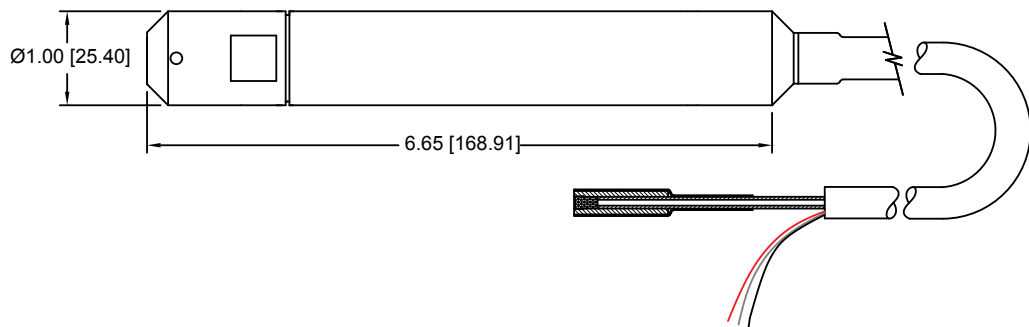
# TITANIUM SUBMERSIBLE LEVEL TRANSMITTER

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

WIRE	MODEL 313L/NI
RED	+EXC/SIG
BLK	-EXC/SIG
GRN	N/C
WHT	N/C
SHIELD	OPEN



## REFERENCE SPECIFICATIONS

<p><b>ELECTRICAL</b></p> <ul style="list-style-type: none"> <li>• <b>Supply Voltage:</b> 9 to 36 Vdc</li> <li>• <b>Output Signal:</b> 4-20 mA output</li> <li>• <b>Circuit Protection:</b> Short circuit or reversed wired – Indefinite</li> <li>• <b>Load Resistance:</b> 1400 Ω max. at 40 Vdc excitation</li> <li>• <b>Response Time:</b> ≤5 ms to 90%</li> <li>• <b>Connection:</b> Molded Hytrel jacketed, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel jacketed cable optional</li> </ul>	<p><b>MECHANICAL</b></p> <ul style="list-style-type: none"> <li>• <b>Zero Balance and FSO:</b> ±1.0% FSO @ ±100 °F</li> <li>• <b>Process connection:</b> PVC bullet nose</li> <li>• <b>External Pressure:</b> Rated to 500 PSI (1,153 FTWC) max.</li> <li>• <b>Proof Pressure:</b> 2X FSO</li> <li>• <b>Burst Pressure:</b> 4X FSO</li> <li>• <b>Approximate Weight:</b> 10 oz (0.3 kg) nominal, options may increase weight</li> <li>• <b>Diameter:</b> 1.0" (2.54 cm)</li> </ul>
<p><b>MATERIALS OF CONSTRUCTION</b></p> <ul style="list-style-type: none"> <li>• <b>Housing:</b> Titanium</li> <li>• <b>Wetted Material:</b> Titanium / Ceramic and Viton</li> </ul>	<p><b>PRESSURE RANGES</b></p> <ul style="list-style-type: none"> <li>• 0-20" WC thru 300 PSI (50 MBAR to 35 BAR)</li> </ul>
<p><b>STATIC ACCURACY (HYSTERESIS, NON-LINEARITY &amp; REPEATABILITY @ +70 °F)</b></p> <ul style="list-style-type: none"> <li>• <b>Standard:</b> ±0.5% FSO, ±0.2% FSO, and ±0.1% FSO</li> </ul>	<p><b>THERMAL SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Compensated:</b> 0 °F to +140 °F (-18 °C to +60 °C)</li> <li>• <b>Operating:</b> -40 °F to +150 °F (-40 °C to +65.5 °C)</li> <li>• <b>Storage:</b> -40 °F to +150 °F (-40 °C to +65.5 °C)</li> <li>• <b>Effect on Zero/Span:</b> &lt;±2.0% FSO/100 °F</li> </ul>

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.