TITANIUM SUBMERSIBLE LEVEL TRANSMITTER



Model BR313L-NI
Titanium Submersible Level Transmitter

MODEL BR313L-NI

FEATURES:

- 5 PSI (138"WC) thru 0 to 300 PSI (692 FTWC)
- 4-20 mA output
- Rugged, welded, leak-proof construction
- Slim 1.0" (2.5 cm) diameter titanium housing
- Up to 0.10% FSO accuracy

APPLICATIONS:

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

PRODUCT OVERVIEW:

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

FIELD OPTIONS:

- Remote zero-span adjust
- Lightning suppression
- Additional lengths, Tefzel® or Hytrel jacketed cable

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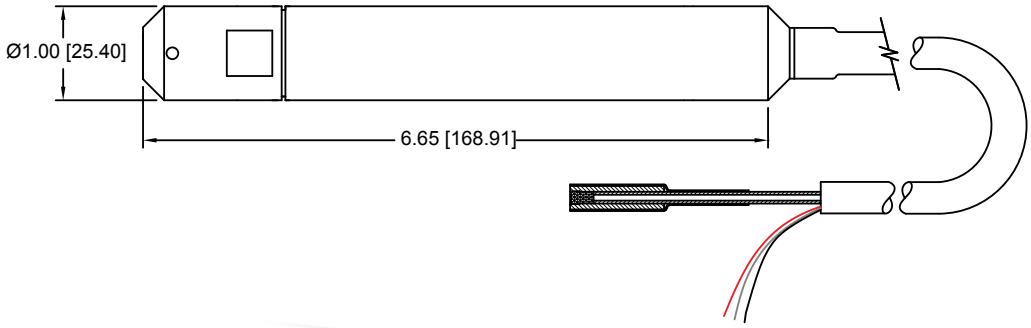
DIMENSIONAL DRAWING

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

ELECTRICAL

- **Supply Voltage:** 9 to 36 Vdc
- **Output Signal:** 4-20 mA output
- **Circuit Protection:** Short circuit or reversed wired – Indefinite
- **Load Resistance:** 1400 Ω max. at 40 Vdc excitation
- **Response Time:** ≤5 ms to 90%
- **Connection:** Molded Hytrel jacketed, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel® jacketed cable optional

MATERIALS OF CONSTRUCTION

- **Housing:** Titanium
- **Wetted Material:** Titanium / Ceramic and Viton

STATIC ACCURACY (BFSL): Non-Linearity @ +70 °F

- **Standard:** ±0.5% FSO
- **Improved:** ±0.2% FSO, and ±0.1% FSO
- **Zero/Span Balance:** ±1.0% FSO @ +70 °F

MECHANICAL

- **Process connection:** 1/4" NPT (F) with PVC bullet nose
- **External Pressure:** Rated to 500 PSI (1,153 FTWC) max.
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 4X FSO
- **Approximate Weight:** 10 oz (0.3 kg) nominal, options may increase weight
- **Diameter:** 1.0" (2.5 cm)

PRESSURE RANGES

- 5 PSI (138"WC) thru 300 PSI (345 mBAR to 20 BAR)

THERMAL SPECIFICATIONS

- **Compensated:** 0 °F to +140 °F (-17.7 °C to +60 °C)
- **Operating:** -40 °F to +150 °F (-40 °C to +65.5 °C)
- **Storage:** -40 °F to +150 °F (-40 °C to +65.5 °C)
- **Effect on Zero/Span:** <±2.0% FSO/100 °F at full scale

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.

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