

TITANIUM SUBMERSIBLE LEVEL TRANSMITTER



Model BR313L-NI Titanium Submersible Level Transmitter

MODEL BR313L-NI

FEATURES:

- 0 to 20" 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 alltitanium design to provide long-term stability and continued performance under the harshest 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 and caustic environmental conditions.

FIELD OPTIONS:

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



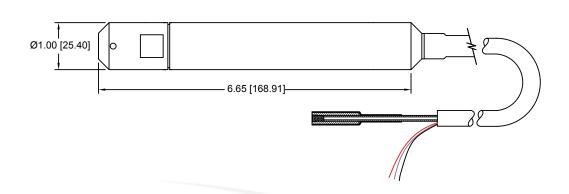
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DIMENSIONAL DRAWING

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	MECHANICAL
Supply Voltage: 9 to 36 Vdc	• Process connection: 1/4" NPT (F) with PVC bullet nose
Output Signal: 4-20 mA output	• External Pressure: Rated to 500 PSI (1,153 FTWC) max.
• Circuit Protection: Short circuit or reversed wired – Indefinite	Proof Pressure: 2X FSO
• Load Resistance: 1400 Ω max. at 40 Vdc excitation	Burst Pressure: 4X FSO
Response Time: ≤5 ms to 90% Connection: Molded Hytel issketed, 6 conductor with broather	• Approximate Weight: 10 oz (0.3 kg) nominal, options may increase weight
• Connection: Molded Hytrel jacketed, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel® jacketed	• Diameter: 1.0" (2.5 cm)
cable optional	PRESSURE RANGES
MATERIALS OF CONSTRUCTION	• 0-20" WC thru 300 PSI (50 MBAR to 35 BAR)
• Housing: Titanium	
Wetted Material: Titanium / Ceramic and Viton	THERMAL SPECIFICATIONS
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	• Compensated: 0 °F to +140 °F (-17.7 °C to +60 °C)
• Standard: ±0.5% FSO	• Operating: -40 °F to +150 °F (-40 °C to +65.5 °C)
• Improved: $\pm 0.2\%$ FSO, and $\pm 0.1\%$ FSO	• Storage: -40 °F to +150 °F (-40 °C to +65.5 °C)
• Zero/Span Balance: ±1.0% FSO @ +70 °F	• 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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