SLIM SUBMERSIBLE LEVEL TRANSMITTER



Model BR313SL
Slim Submersible Level Transmitter

CE

MODEL BR313SL (Replaces Model BR313S)

FEATURES:

- Slim 0.622" (15.8mm) diameter housing
- 0 to 3 PSI thru 285 PSI (200 meters WC)
- 4-20 mA, 0-5 Vdc, 1-5 Vdc, and 0-10 Vdc output
- Rugged, welded, leak-proof stainless steel construction
- Silicon sensor technology
- Up to 0.25 % FSO accuracy
- Hydrophobic breather filter
- CE certified

APPLICATIONS:

- Sewage lift and pump stations
- Deep well and borehole
- Groundwater monitoring
- Shipboard level control
- Weirs, wells, pond, reservoir, and dam level

PRODUCT OVERVIEW:

Model BR313SL from Blue Ribbon Corp has all the same features as discontinued model BR313S, but with a slim 0.622" (15.8 mm) diameter and compact 3.4" housing for those applications that have limited installation space. All Blue Ribbon submersible level transmitters are built with a rugged leak-proof stainless steel construction, lightning surge protection and an integrated hydrophobic filter to provide accurate level measurement with years of corrosion-free service for all types of level applications.

FIELD OPTIONS:

- Lightning suppression
- Additional cable lengths available

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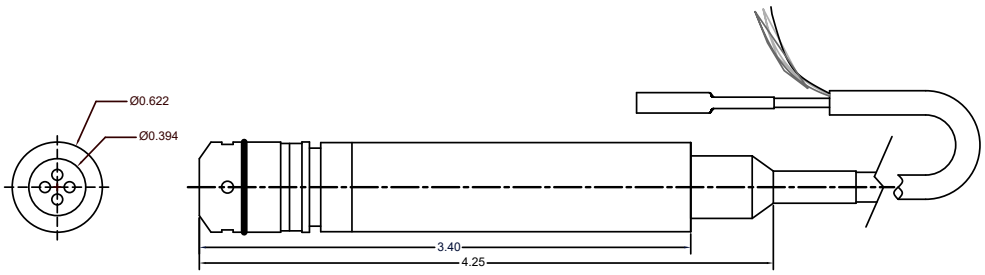
SLIM SUBMERSIBLE LEVEL TRANSMITTER

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING CONFIGURATION

PIN/WIRE COLOR	DESCRIPTION
RED	+EXC/SIG
YEL	-EXC/SIG
BLK	SHIELD



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Excitation Voltage:** 9 to 32 Vdc
- **Output Signal:** 4-20 mA, 0-5 Vdc, 1-5 Vdc, and 0-10 Vdc 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:** 40 ft Polyurethane jacketed cable with integrated vent tube and hydrophobic filter, additional lengths, Teflon cable optional

MATERIALS OF CONSTRUCTION

- **Housing:** All 316 stainless steel construction of sensor and housing

STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- **Standard:** ±0.5% FSO
- **Improved:** ±0.25% FSO

MECHANICAL

- **Zero Balance and FSO:** ±1.0% FSO @ +70 °F
- **Process Connection:** Stainless Steel bullet nose
- **External Pressure:** Rated to 500 PSI (35 BAR) max.
- **Proof Pressure:** 1.5X FSO
- **Burst Pressure:** 2X FSO
- **Approximate Weight:** <10 oz (0.3 kg) nominal
- **Diameter:** 0.622" (15.8 mm)

PRESSURE RANGES

- 0 to 3 PSI thru 285 PSI (200 MWC)

THERMAL SPECIFICATIONS

- **Compensated:** 14 °F to +160 °F (-10 °C to +70 °C)
- **Operating:** -4 °F to +185 °F (-20 °C to +85 °C)
- **Storage:** -40 °F to +212 °F (-40 °C to +100 °C)
- **Effect on Zero/Span:** <±2.0% FSO/100 °F

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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