



FLUSH SUBMERSIBLE LEVEL TRANSMITTER

MODEL BR313F

FEATURES:

- 28mm flush ceramic sensor
- 0 to 2 PSI thru 0 to 30 PSI (69 FTWC)
- Corrosion resistant, leak-proof construction
- 1.50" diameter housing
- 4-20 mA output
- 1/2" NPT conduit with Hytrel® cable rated for Hydrocarbons
- Flush design saves cost and down time by eliminating sensor clean up

APPLICATIONS:

- Submersible pump lift station level monitoring
- Water tanks and reservoirs
- Process sumps
- Water and wastewater level monitoring
- Water recycling
- Other aggressive media

PRODUCT OVERVIEW:

Model 313F utilizes a 1.12" diameter flush ceramic sensor to reduce grease and biosolid buildup and minimizes cleanup. The corrosion-resistant 316L stainless steel construction, and an integrated hydrophobic breather vent help provide years of maintenance-free service.

FIELD OPTIONS:

- Additional lengths, Tefzel® or Hytrel jacketed cable
- PVC housing (see model 313G)
- Field re-zeroing option



Model BR313F
Flush Submersible Level Transmitter



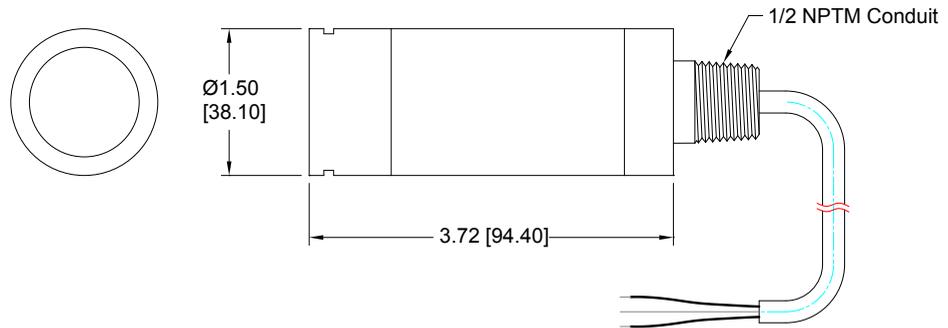
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DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

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



REFERENCE SPECIFICATIONS

<p>ELECTRICAL</p> <ul style="list-style-type: none"> • 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: ≤ 3 ms to 90% • Connection: 1/2" NPT conduit w/6 ft 18 AWG multi-lengths available, Tefzel[®] jacketed cable optional 	<p>MECHANICAL</p> <ul style="list-style-type: none"> • Zero Balance and FSO: $\pm 1.0\%$ FSO @ +70 °F • Process Connection: Flush ceramic, options available • External Pressure: Rated to 500 PSI (1,153 ft WC) max. • Proof Pressure: 2X FSO • Burst Pressure: 4X FSO • Approximate Weight: 1 lb (0.5 kg) nominal, options may increase weight • Diameter: 1.5"
<p>MATERIALS OF CONSTRUCTION</p> <ul style="list-style-type: none"> • Housing: Optional 316L Stainless Steel (Optional titanium or PVC) • Wetted Material: Ceramic Al₂O₃ 	<p>PRESSURE RANGES</p> <ul style="list-style-type: none"> • 0-2 PSI thru 0 to 30 PSI
<p>STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)</p> <p>Standard: $\pm 0.5\%$ FSO, $\pm 0.2\%$ FSO, and $\pm 0.1\%$ FSO</p>	<p>THERMAL SPECIFICATIONS</p> <ul style="list-style-type: none"> • Compensated: 0 °F to +140 °F (-32 °C to +60 °C) • Operating: -40 °F to +185 °F (-40 °C to +85 °C) • Storage: -40 °F to +150 °F (-40 °C to +65.5 °C) • Effect on Zero/Span: $< \pm 2.0\%$ 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.

