



## FLUSH SUBMERSIBLE LEVEL TRANSMITTER

### MODEL BR313F



Model BR313F  
Flush Submersible Level Transmitter

#### 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



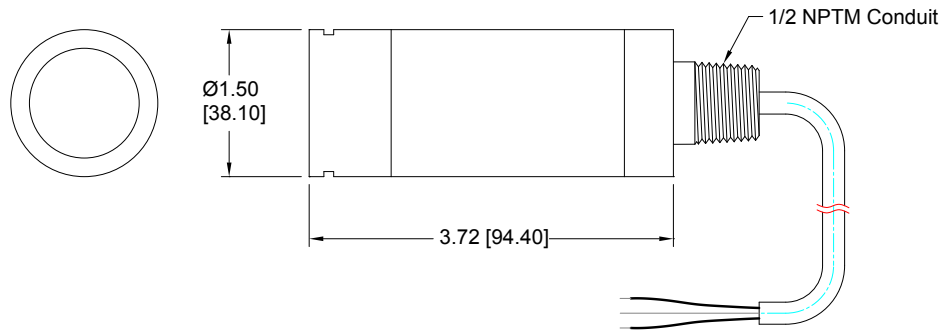
# FLUSH SUBMERSIBLE LEVEL TRANSMITTER

## 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

ELECTRICAL
<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 <math>\Omega</math> max. at 40 Vdc excitation</li> <li>• <b>Response Time:</b> <math>\leq 3</math> ms to 90%</li> <li>• <b>Connection:</b> 1/2" NPT conduit w/6 ft 18 AWG multi-lengths available, Tefzel<sup>®</sup> jacketed cable optional</li> </ul>
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> <li>• <b>Housing:</b> Optional 316L Stainless Steel (Optional titanium or PVC)</li> <li>• <b>Wetted Material:</b> Ceramic Al<sub>2</sub>O<sub>3</sub></li> </ul>
STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard: $\pm 0.5\%$ FSO, $\pm 0.2\%$ FSO, and $\pm 0.1\%$ FSO

MECHANICAL
<ul style="list-style-type: none"> <li>• <b>Zero Balance and FSO:</b> <math>\pm 1.0\%</math> FSO @ +70 °F</li> <li>• <b>Process Connection:</b> Flush ceramic, options available</li> <li>• <b>External Pressure:</b> Rated to 500 PSI (1,153 ft WC) max.</li> <li>• <b>Proof Pressure:</b> 2X FSO</li> <li>• <b>Burst Pressure:</b> 4X FSO</li> <li>• <b>Approximate Weight:</b> 1 lb (0.5 kg) nominal, options may increase weight</li> <li>• <b>Diameter:</b> 1.5"</li> </ul>
PRESSURE RANGES
0-2 PSI thru 0 to 30 PSI
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> <li>• <b>Compensated:</b> 0 °F to +140 °F (-32 °C to +60 °C)</li> <li>• <b>Operating:</b> -40 °F to +185 °F (-40 °C to +85 °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> <math>&lt; \pm 2.0\%</math> FSO/100 °F at full scale</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.