SUBMERSIBLE LEVEL TRANSMITTER WITH SLUDGE NOSE



Model BR1112/1113
Submersible Level Transmitter
with Sludge Nose

MODEL BR1112/1113

FEATURES:

- Removeable stainless steel sludge nose
- Submersible to 650 ftwc (200 mwc)
- 1.06" (27 mm) diameter
- Up to ±0.1 % FSO accuracy
- All stainless steel construction
- 0-5Vdc and 4-20mA output
- CE Directives: EMC, PED, ROHS

APPLICATIONS:

- Wet wells, ponds, rivers and tank level measurements
- Water and waste water treatment
- Ground water monitoring
- Irrigation

PRODUCT OVERVIEW:

The Model BR1112/1113 from Blue Ribbon Corp is a family of submersible level transmitters, designed to provide high-accuracy measurements at a competitive price point. They are offered with an all stainless steel sensor with removeable sludge nose which allows for periodic maintenance and cleaning for extended corrosion-free service life.

FIELD OPTIONS:

- 0-5, 0-10, and 1-5Vdc output
- Additional cable lengths available
- Optional tantalum sensor
- Stand-off PVC nose cone

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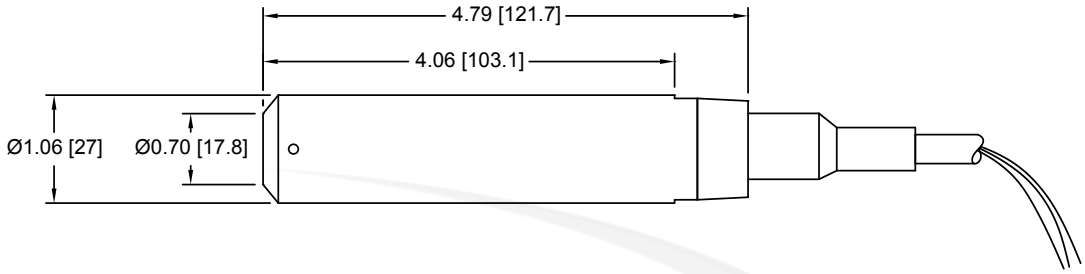
DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 1113
RED	+EXC/SIG
YEL	-EXC/SIG
DRAIN	CASE GND



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Supply Voltage:** 12 to 36 Vdc
- **Output Signal:**
  (1112) 0 to 5 Vdc
  (1113) 4-20 mA
- **Circuit Protection:** Lightning and surge protection
- **Response Time:** <5 ms

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

Standard: ±0.5% FSO
Improved: ±0.25% FSO and ±0.1% FSO

MATERIALS OF CONSTRUCTION

- **Housing Assembly:** 304SS
- **Sensor Diaphragm:** 316L, tantalum optional
- **Cable:** 40 ft Polyurethane jacketed cable with integrated vent tube and hydrophobic filter, Teflon cable optional
- **Process Connection:** Stainless steel bullet nose (via M22x1 Female thread)

MECHANICAL

- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 3X FSO
- **Weight:** >1.5 lbs (680 g)
- **Diameter:** 1.06" (27 mm)

PRESSURE RANGES

- 0 to 1.4 PSI thru 0 to 285 PSI (100 mBAR thru 20 BAR)
- 0 to 40" wc thru 0 to 650 ftwc (1 mwc thru 200 mwc)

THERMAL SPECIFICATIONS

- **Compensated:** 32 °F to +168 °F (0 °C to +70 °C)
- **Operating Temperature:** -40 °F to +185 °F (-40 °C to +85 °C)
- **Storage:** -40 °F to +212 °F (-40 °C to +100 °C)
- **Effect on Zero:** <±1.38% FSO/100 °F (<±2.5% FSO/100 °C)
- **Effect on Span:** <±1.1% FSO/100 °F (<±2.0% FSO/100 °C)

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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